



Effective September 24, 2012      Catalog #54



# 2013 NEW

## 5-Way Valve

### FEATURES

- FKM (viton type) seals.
- PTFE self-lubricating stem bushings and ball seats cannot stick or bind.
- Precision molded in polypropylene. Polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- Handle locks into place.
- Mounting options.



## 2" Full Port Manifold Stubby Valves w/SS

### FEATURES

- Stainless steel ball, handle and stem.
- Locking handle.
- 100 P.S.I.
- PTFE ball seats.
- Glass filled polypropylene.
- FKM (viton type) body seals.
- Stainless steel bolts.



| 4 BOLT 5 Way VALVE |                                 |         |           |                   |     |          |
|--------------------|---------------------------------|---------|-----------|-------------------|-----|----------|
| PART NO            | DESCRIPTION                     | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
| MV225CF            | 2" Full Port Flange 5 Way Valve | 200     | 2"        | 2"                | 1   | \$391.34 |

| 2" FULL PORT MANIFOLD STUBBY VALVES W/SS |                                                |         |           |                   |     |          |
|------------------------------------------|------------------------------------------------|---------|-----------|-------------------|-----|----------|
| PART NO                                  | DESCRIPTION                                    | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
| MVSMT220HSFP                             | 2" FP NPT x 2" Flange w/SS Ball, Stem & Handle | 100     | 2"        | 2"                | 1   | \$196.22 |

See pages 60 & 64 for our other valve choices!

# PRODUCTS

## 2" Full Port 316 SS Stubby Valves

### FEATURES

- 100% PTFE ball seats.
- Unique compact design.
- All TFE seals. No elastomers.



## 2" Full Port 316 SS Sweep

### FEATURES

- Direct replacement for standard 90° flanged couplings.



*Improved  
Flow for  
Max GPM!*

| 2" FULL PORT STAINLESS STEEL STUBBY VALVE |                                                          |           |                   |     |          |
|-------------------------------------------|----------------------------------------------------------|-----------|-------------------|-----|----------|
| PART NO                                   | DESCRIPTION                                              | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
| VSFMT220SS                                | 2" FP Male Adapter x 2" NPT Stainless Steel Stubby Valve | 2"        | 2"                | 1   | \$328.13 |

| 2" FULL PORT STAINLESS STEEL SWEEP |                                       |     |          |
|------------------------------------|---------------------------------------|-----|----------|
| PART NO                            | DESCRIPTION                           | QTY | PRICE    |
| M220SWP90SS                        | 2" Full Port SS Flange x Flange Sweep | 1   | \$110.47 |

| 2" FULL PORT MANIFOLD STAINLESS STEEL STUBBY VALVES |                                                             |           |                   |     |          |
|-----------------------------------------------------|-------------------------------------------------------------|-----------|-------------------|-----|----------|
| PART NO                                             | DESCRIPTION                                                 | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
| MVS220SS                                            | 2" FP Flange x 2" FP Flange Stainless Steel Stubby Valve    | 2"        | 2"                | 1   | \$328.13 |
| MVSF220SS                                           | 2" FP Flange x 2" Male Adapter Stainless Steel Stubby Valve | 2"        | 2"                | 1   | \$328.13 |
| MVSMT220SS                                          | 2" FP Male NPT x 2" FP Flange Stainless Steel Stubby Valve  | 2"        | 2"                | 1   | \$328.13 |

See page 71 for our poly sweeps!

# 2013 NEW

## 3" Check Valves

### FEATURES

- One piece construction.
- 150 P.S.I. maximum.
- 1-2 P.S.I. spring.
- Glass reinforced polypropylene.
- 316 stainless steel springs.
- EPDM gasket.



| CHECK VALVE |                                        |         |           |     |         |
|-------------|----------------------------------------|---------|-----------|-----|---------|
| PART NO     | DESCRIPTION                            | MAX PSI | PIPE SIZE | QTY | PRICE   |
| CV300       | 3" Full Port Threaded Poly Check Valve | 150     | 3"        | 1   | \$41.10 |

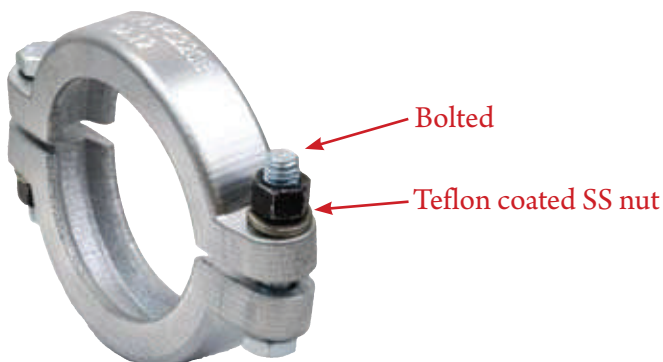


| FLANGED CHECK VALVE |                                       |         |           |     |         |
|---------------------|---------------------------------------|---------|-----------|-----|---------|
| PART NO             | DESCRIPTION                           | MAX PSI | PIPE SIZE | QTY | PRICE   |
| MCV300              | 3" Full Port Flanged Poly Check Valve | 150     | 3"        | 1   | \$42.49 |

## Bolted Flange Clamps

### FEATURES

- Strong positive connections.
- 316 stainless steel construction.
- 2" clamps pressure to 150 P.S.I. at 70°F.
- 3" clamps pressure to 125 P.S.I. at 70°F.
- Ideal for high torque applications.
- Stainless steel bolt



| FLANGE CLAMPS |                                  |               |     |         |
|---------------|----------------------------------|---------------|-----|---------|
| PART NO       | DESCRIPTION                      | TORQUE        | QTY | PRICE   |
| FC220B        | 2" Full Port Bolted Flange Clamp | 90-100 in/lbs | 1   | \$43.50 |
| FC300B        | 3" Bolted Flange Clamp           | 90-100 in/lbs | 1   | \$48.50 |

## T-Bolt Flange Clamps

### FEATURES

- Strong positive connections.
- 316 stainless steel construction.
- 2" clamps pressure to 150 P.S.I. at 70°F.
- 3" clamps pressure to 125 P.S.I. at 70°F.



| T-BOLT FLANGE CLAMPS |                                            |            |     |         |
|----------------------|--------------------------------------------|------------|-----|---------|
| PART NO              | DESCRIPTION                                | TORQUE     | QTY | PRICE   |
| FC220TB              | 2" Full Port Hi-Torque T-Bolt Flange Clamp | 125 in/lbs | 10  | \$30.79 |
| FC300TB              | 3" Full Port Hi-Torque T-Bolt Flange Clamp | 125 in/lbs | 10  | \$32.17 |



# PRODUCTS

## Manifold Inductor System

### FEATURES

- Installed after pump; suction completely empties inductor tank.
- Keeps tank free of chemicals.
- 2" & 3" full port flow by-pass.
- Easy assembly/installation with manifold connections.

\*Note: Tank not included.

**Draws wettable powders or liquids from inductor tank for thorough chemical mixing!**

**Choose Connections!**

**Choose Valve!**

Flow →

Flow →

| MANIFOLD INDUCTOR SYSTEM |                                        |     |          |
|--------------------------|----------------------------------------|-----|----------|
| PART NO                  | DESCRIPTION                            | QTY | PRICE    |
| MIS220                   | 2" Full Port Flange x Flange-Assembled | 1   | \$530.23 |
| MIS300                   | 3" Flange x Flange-Assembled           | 1   | \$923.62 |

See page 58 for 2" FP stubby valve choices!

See pages 74 -75 for connections!

**Full Port By-Pass!**

**2" Full Port!**

**2013 NEW**

#### FEATURES

- 316 stainless steel construction.
- FKM (viton type) standard, EPDM face seals available.
- 100% PTFE ball seats.
- 300 P.S.I. maximum operating pressure.
- 300°F maximum operating temperature.
- Spillage data: Less than 1cc.
- Filled valve for no product residue.
- 20 Degrees rotation either direction to ease coupling male and female halves.
- When liquid is flowing, Dry-Mate halves cannot be uncoupled without turning handles to closed position.
- When Dry-Mate halves are apart, handles cannot be turned to open position.

#### APPLICATIONS

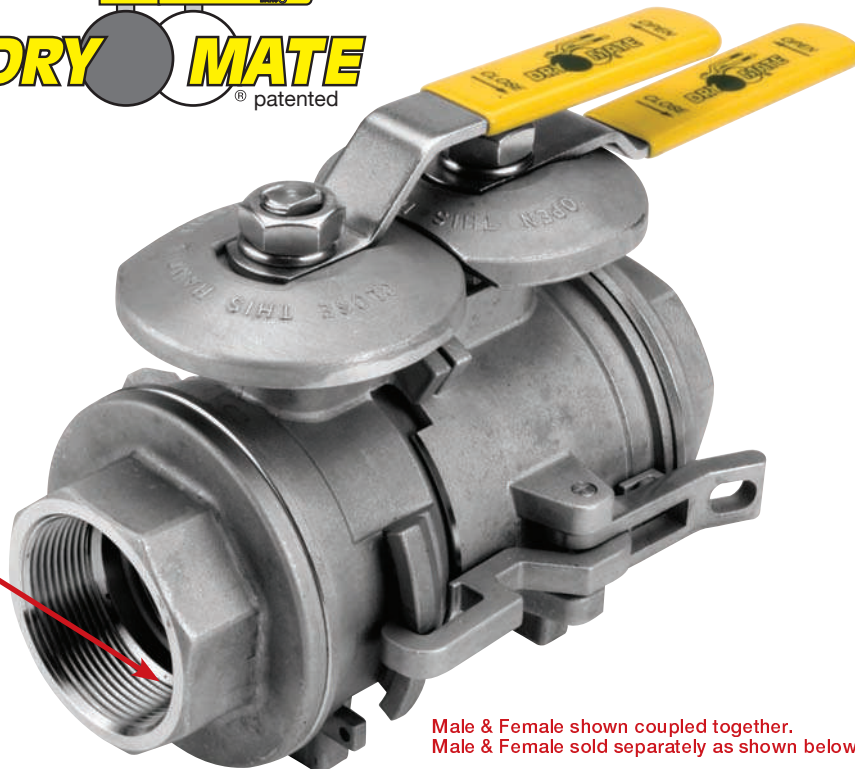
- Agriculture
- Industrial
- Pharmaceutical
- Chemical processing

#### SIZES

- Sizes: 2" Full Port (Female NPT & BSP Threads)



Available with Female NPT or BSP Threads



Male & Female shown coupled together. Male & Female sold separately as shown below.

#### PREVENTS ACCIDENTAL SPILLS AND EXPOSURE!

| 2" FULL PORT STAINLESS STEEL DRY-MATE |                                                      |         |           |                   |     |            |
|---------------------------------------|------------------------------------------------------|---------|-----------|-------------------|-----|------------|
| PART NO                               | DESCRIPTION                                          | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE      |
| DM220ASS                              | 2" FP Male x NPT Threads w/ all PTFE Seals           | 300     | 2"        | 2"                | 1   | \$1,188.30 |
| DM220DSS                              | 2" FP Female x NPT Threads w/ FKM (viton type) Seals | 300     | 2"        | 2"                | 1   | \$1,803.65 |
| DM220DSSE                             | 2" FP Female x NPT Threads w/EPDM Seals              | 300     | 2"        | 2"                | 1   | \$1,803.65 |
| DM220ABSS                             | 2" FP Male x BSP Threads w/ all PTFE Seals           | 300     | 2"        | 2"                | 1   | \$1,188.30 |
| DM220DBSS                             | 2" FP Female x BSP Threads w/ FKM (viton type) Seals | 300     | 2"        | 2"                | 1   | \$1,803.65 |
| DM220DBSSE                            | 2" FP Female x BSP Threads w/EPDM Seals              | 300     | 2"        | 2"                | 1   | \$1,803.65 |



New face seal design for easy seal interchange!  
No need to disassemble the valve to change face seals.



Male Dry-Mate

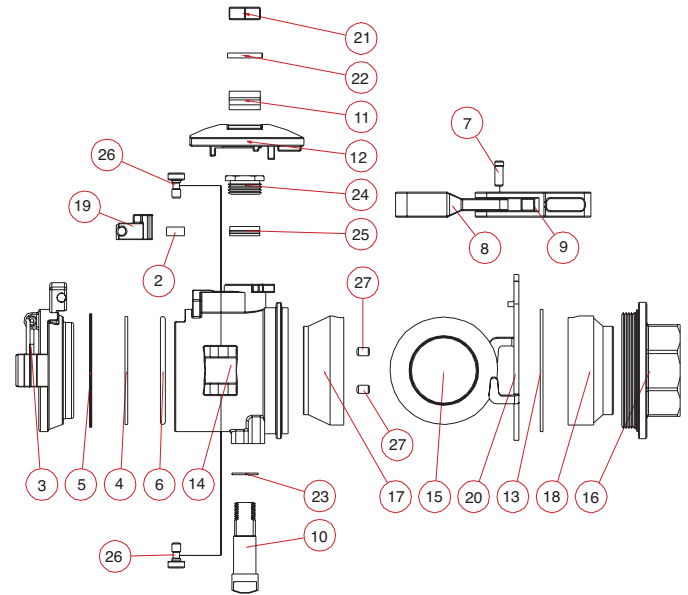
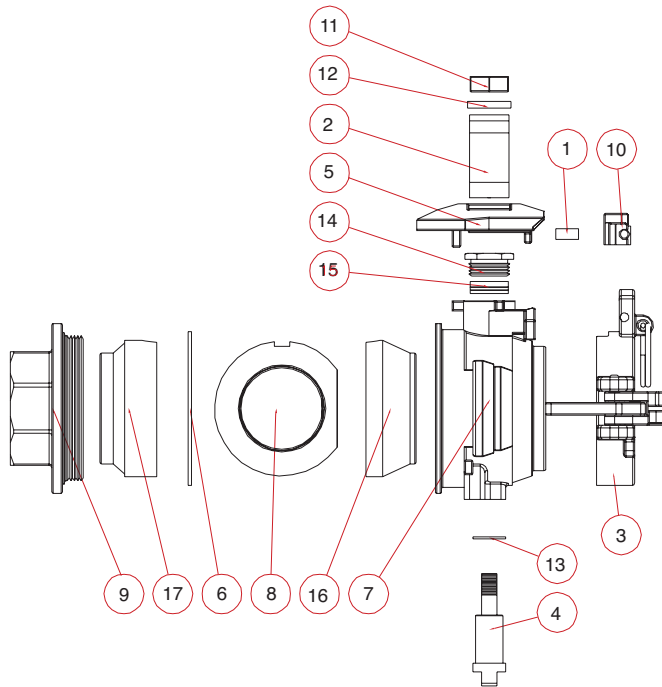


Female Dry-Mate

Male & Female Sold Separately



# PRODUCTS



| REPLACEMENT PARTS DM220ASS |             |                             |     |          |
|----------------------------|-------------|-----------------------------|-----|----------|
| ITEM                       | PART NO     | DESCRIPTION                 | QTY | PRICE    |
| 1                          | DB20281     | Button Spring               | 2   | \$3.49   |
| 2                          | DM25153SSM  | 2" Male Handle              | 1   | \$55.07  |
| 3                          | DM220CAP    | Dust Cap                    | 1   | \$77.19  |
| 4                          | DM25151SS   | Stem                        | 1   | \$57.94  |
| 5                          | DM25155SS   | Male Handle Interlock       | 1   | \$48.37  |
| 6                          | DM25204SS*  | Body Shim                   | 1   | \$11.27  |
| 7                          | DM25254MSS  | Body                        | 1   | \$748.42 |
| 8                          | DM25255SSH  | Ball                        | 1   | \$183.77 |
| 9                          | DM25256SS   | End Plate                   | 1   | \$153.72 |
| 10                         | DM25288MSS  | Safety Button               | 1   | \$18.17  |
| 11                         | VSS15020    | 5/8" - 20 Jam Nut           | 1   | \$2.26   |
| 12                         | VSS15021    | 5/8" Lock Washer            | 1   | \$2.26   |
| 13                         | VSS15060*   | Stem Packing                | 1   | \$1.81   |
| 14                         | VSS15159    | Packing Nut                 | 1   | \$16.18  |
| 15                         | VSS15160*   | Stem Shim                   | 1   | \$6.03   |
| 16                         | DM25258FV1* | Filled Valve Body Seat      | 1   | \$119.80 |
| 17                         | DM25258FV2* | Filled Valve End Plate Seat | 1   | \$126.57 |
| 18                         | DM221SS     | Repair Kit                  | 1   | \$266.10 |

| REPLACEMENT PARTS DM220DSS |             |                                             |     |          |
|----------------------------|-------------|---------------------------------------------|-----|----------|
| ITEM                       | PART NO     | DESCRIPTION                                 | QTY | PRICE    |
| 2                          | DB20281     | Button Spring                               | 2   | \$3.49   |
| 3                          | DM220PL     | Dust Plug                                   | 1   | \$70.66  |
| 4                          | DM25001     | Seal Ring                                   | 1   | \$9.61   |
| 5                          | DM25002     | Snap Ring                                   | 1   | \$28.25  |
| 6                          | MLS234G     | EPDM 234 O-Ring (old style)                 | 1   | \$1.74   |
| 6                          | MLS234GV*   | FKM (viton type) 234 O-Ring (old style)     | 1   | \$6.30   |
| 6                          | DM25294     | 2" FP FKM(viton type) Face Seal (new style) | 1   | \$42.00  |
| 7                          | DM25004     | Groove Pin                                  | 2   | \$10.79  |
| 8                          | DM25009     | Clamp Arm                                   | 2   | \$29.11  |
| 9                          | DM25010     | Clamp Lever (old style)                     | 2   | \$29.11  |
| 9                          | DM25010A    | Clamp Lever (new style)                     | 2   | \$38.70  |
| 10                         | DM25151SS   | Stem                                        | 1   | \$57.94  |
| 11                         | DM25153SSF  | Female Handle                               | 1   | \$55.07  |
| 12                         | DM25154SS   | Female Handle Interlock                     | 1   | \$53.45  |
| 13                         | DM25204SS*  | Body Shim                                   | 4   | \$11.27  |
| 14                         | DM25254FSS  | Body                                        | 1   | \$911.65 |
| 15                         | DM25255SSH  | Ball                                        | 1   | \$144.78 |
| 16                         | DM25256SS   | End Plate                                   | 1   | \$153.72 |
| 17                         | DM25258FV1* | Filled Valve Body Seat PTFE                 | 1   | \$119.80 |
| 18                         | DM25258FV2* | Filled Valve Body Plate Seat PTFE           | 1   | \$126.57 |
| 19                         | DM25288FSS  | Interlock Button                            | 1   | \$18.17  |
| 20                         | DM25289SS   | Locking Yoke                                | 1   | \$93.13  |
| 21                         | VSS15020    | 5/8" - 20 Jam Nut                           | 1   | \$2.26   |
| 22                         | VSS15021    | 5/8" Lock Washer                            | 1   | \$2.26   |
| 23                         | VSS15060*   | Stem Packing                                | 1   | \$1.81   |
| 24                         | VSS15159    | Packing Nut                                 | 1   | \$16.18  |
| 25                         | VSS15160*   | Stem Shim                                   | 1   | \$6.03   |
| 26                         | DM25018     | Cam Lever Pin (old style)                   | 4   | \$13.42  |
| 26                         | DM25018A    | Cam Lever Pin (new style)                   | 4   | \$8.50   |
| 27                         | DM25020     | #10- 24 x 5/16" Set Screw                   | 4   | \$6.31   |
| N/S                        | DM222SS     | Repair Kit                                  | 1   | \$346.79 |

Valve repair kits contain items marked with asterisk \*.

# 2013 NEW

## EPA IBC Tank Lid & Plug

### FEATURES

- Precision molded in polypropylene. Polypropylene is reinforced with fiberglass for additional strength.
- Meets EPA standards.

Slot for tamper evident device!  
(not provided)



| 6" IBC TANK LIDS W/VENTED 2" PLUG |                                  |        |     |         |
|-----------------------------------|----------------------------------|--------|-----|---------|
| PART NO                           | DESCRIPTION                      | GASKET | QTY | PRICE   |
| TL652EPA                          | 6" EPA Tank Lid w/Vented 2" Plug | EPDM   | 1   | \$21.58 |

## Clear T Line Strainer Bowls

### FEATURES

- Precision molded in polycarbonate.
- Allows for easy visibility of product.



| CLEAR T LINE STRAINER BOWLS |                      |     |         |  |
|-----------------------------|----------------------|-----|---------|--|
| PART NO                     | DESCRIPTION          | QTY | PRICE   |  |
| LST100BCB                   | ¾" & 1" Clear Bowl   | 1   | \$23.18 |  |
| LST150BCB                   | 1¼" & 1½" Clear Bowl | 1   | \$30.39 |  |

See page 120 & 121 for T line strainers.

231EPA



Slot for tamper evident device!  
(not provided)

13778



075MPTL\*



\*Non-removable once inserted into plug.

| 2" VENTED BUNG PLUG |                                  |     |        |  |
|---------------------|----------------------------------|-----|--------|--|
| PART NO             | DESCRIPTION                      | QTY | PRICE  |  |
| 231EPA              | EPA plug with Non-Removable Vent | 1   | \$8.02 |  |
| 075MPTL             | ¾" non-removal vent              | 1   | \$2.28 |  |
| 13778               | EPDM O-ring for vent             | 1   | \$1.86 |  |



# PRODUCTS

## 2" Manifold Poly Pumps

### FEATURES

- Precision molded construction.
- Lightweight.
- Corrosion resistant.
- Superior design.
- Low maintenance.
- EPDM Standard, FKM (viton type) available.

DO NOT USE WITH FLAMMABLE LIQUIDS.



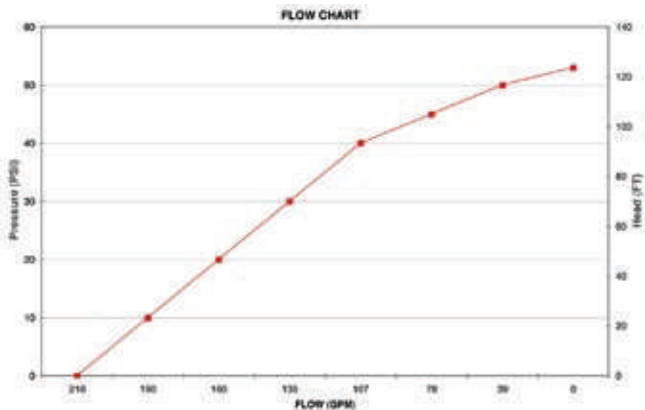
**CAUTION-WARNING:** Please do not run pump dry, restrict or reduce port sizes, or dead head pump. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**

**NOTE:** Engine warranty service available at authorized Briggs & Stratton and Honda dealers.

| 2" MANIFOLD POLY PUMPS W/GAS ENGINES |                                                                     |     |     |            |  |
|--------------------------------------|---------------------------------------------------------------------|-----|-----|------------|--|
| PART NO                              | DESCRIPTION                                                         | HP  | QTY | PRICE      |  |
| M220P6PRO                            | 2" Manifold Poly Pump w/6.5 HP Briggs & Stratton® Pro Series Engine | 6.5 | 1   | \$1,112.86 |  |
| M220PH5                              | 2" Manifold Poly Pump w/5.5 HP Honda® Engine                        | 5.5 | 1   | \$1,900.76 |  |

See page 74 & 75 for fittings and clamps.





## LIQUID HANDLING PRODUCTS

Banjo Corporation specializes in injection molding of glass reinforced polypropylene with an excellent reputation for high quality. Key properties of glass-reinforced polypropylene include being rigid and lightweight, having excellent chemical and corrosion resistance, stress cracking resistance, low moisture absorption and high impact resistance. Banjo prides itself on innovative designs, skillful engineering and precise manufacturing.

### APPLICATIONS FOR BANJO POLYPROPYLENE LIQUID HANDLING PRODUCTS\*:

- Agricultural Fertilizers, Herbicides, Pesticides, Insecticides
- Industrial Chemicals
- Reverse Osmosis
- Inks, Paints, Coatings
- Soaps & Detergents
- Water Treatment, Wastewater
- Plating
- Pharmaceuticals
- Organic & Inorganic Chemicals
- Pulp & Paper
- Deionized Water
- Adhesives, Lubricants, Resins
- Alkalis, Acids, Solvents, Corrosives
- Textiles
- Circuit Board Chemistry
- Tank Trucks, Rotomolded Tanks, IBC's (Intermediate Bulk Containers)

\*All recommendations as to use of parts and materials mentioned in this catalog assume that the buyer will ascertain their suitability and that all safety and health standards are met.

### PRODUCT CHANGES

Banjo Corporation reserves the right to make design changes for the improvement of a product without notice.

### TECHNICAL SUPPORT SERVICES

Banjo Corporation has technical service personnel who are always ready to assist you with your questions and concerns about Banjo Liquid Handling Products and your specific application. We are committed to being your resource for quality products and efficient technical service.

### QUALITY

Banjo Corporation is dedicated to providing quality products and services that satisfy our customers' needs. Quality is the responsibility of every employee. Our focus is on continuous improvement and innovation of quality products. Due to our policy of continuous improvement all specifications are subject to change without notice.

### PRICING

Banjo Corporation is dedicated to providing quality products, however our pricing is subject change without notice.

Let BANJO MAN point you in the right direction with his helpful tips and guides to our brand new products. Look for BANJO MAN throughout our catalog to assist you.



**HOW TO ORDER**

Contact your local Banjo Distributor or Banjo Corporation:

**BANJO CORPORATION**

150 Banjo Drive

Crawfordsville, Indiana 47933 USA

Telephone: (765) 362-7367

Fax: (800) 458-0232 International Fax: (765) 362-0744

E-Mail Technical Questions: banjosales@idexcorp.com

E-Mail Orders: banjoorders@idexcorp.com

Website: www.banjocorp.com

**Please order in bag/box quantities for quick and easy shipping/receiving of your order. Use BANJO Part Numbers when ordering. All items priced each, not per bag or box quantity.**

**MINIMUM ORDER**

Banjo Corporation requires a **\$50.00** net minimum order, air shipments excluded. Orders less than **\$50.00** net will not be accepted.

**CONDITIONS OF SALE-TERMS AND DELIVERY**

Terms are 1% 15, net 30 days upon credit approval. Delivery is F.O.B. Crawfordsville, Indiana unless otherwise specifically provided in writing. All orders will be shipped freight collect except orders shipped U.P. S. On U.P. S. shipments the actual freight charges will be prepaid and added to the invoice.

**CLAIMS & RETURNS**

All returns must have an accompanying Return Goods Authorization number (RGA Number) regardless of reason for return. Please contact Banjo Corporation for an RGA number prior to returning goods to the above address.

Inspect all shipments for damage upon receipt. If any cartons are damaged, do not sign for or accept them without driver making a notation on the freight bill or receipt. After receiving the shipment, remove the goods and thoroughly inspect immediately. If any concealed damage is discovered, notify the delivering carrier at once in writing. Do not move damaged merchandise until further inspection has been made. Save carton and packing material for inspection. Do not order carrier to return merchandise to our factory without contacting Banjo.

Claims for shortages or inaccurate filling of orders must be made within 30 days after receipt of goods. Return shipments must be prepaid. C.O.D. or "Freight Collect" shipments will not be accepted. **There will be a 30% restocking charge on any items returned for credit or exchange when the error is not ours.** Goods must be in new and original condition without labels, stickers or markings, other than Banjo Corporation.

**RETURN FOR REPAIR POLICY**

1. Items returned for repair will not be accepted without prior approval and a return authorization number.
2. Defective warranty items will be replaced or repaired at manufacturer's option on a no charge basis.
3. The customer will be charged for the appropriate parts and labor charges for all non-warranty work.
4. The manufacturer will not provide replacement parts at no charge while repairs are being made.
5. A description of the application (media, temperature, pressure) and performance of the items must accompany the return. Please specify type of failure and exact location of failure.
6. Prior to returning, items must be cleaned and neutralized. Items which have not been cleaned and neutralized will not be inspected or repaired.

**WARRANTY**

Please contact Banjo Corporation for warranty evaluation. Banjo Corporation is not responsible for product damage resulting from accident, misuse or abuse, or lack of reasonable care. Upon confirmation of defects, Banjo Corporation will repair or replace defective products without charge. No responsibility is assumed for labor, or any special, incidental or consequential damages.

We recommend that anyone intending to rely on any recommendation or to use any parts or material mentioned in this catalog should satisfy themselves as to such suitability and that all applicable safety and health standards are met. The only reliable means for making a final selection is actual field testing under the conditions of intended use.

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**BANJO PUMP RETURNS**


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**UPON RECEIPT OF PUMPS:**

1. Inspect pump for damage!
2. If a pump is damaged, do not sign for or accept damaged cartons without driver making a notation on freight bill or receipt.
3. Do not move damaged merchandise any further until inspection has been made. Save carton and packing material for inspection.
4. Do not order carrier to return merchandise to our factory without contacting Banjo Corporation.

**WHEN RETURNING PUMPS:**

1. Gasoline Engines must be empty of fuel!
2. Pumps must be cleaned and neutralized.
3. Pack pump in heavy-duty carton with sufficient packing to protect bottom and all sides.
4. Specify type of failure and exact location of failure.
5. A description of the application (media, temperature, pressure) and performance of the items must accompany the return.
6. The manufacturer will not provide free replacement parts or pumps while repairs are being made.
7. The customer will be charged for the appropriate parts and labor charges for all non-warranty work.

8. Defective pumps will be replaced or repaired at manufacturer's option.
9. Banjo Corporation is not responsible for pump/engine damage resulting from accident, misuse or abuse, or lack of reasonable care.
10. No responsibility is assumed for labor, or any special, incidental or consequential damages.
11. Engine warranty service and engine parts/accessories available at authorized Honda and Briggs & Stratton Dealers.

**ENGINE WARRANTY**

The engines, hydraulic motors, and electric motors are warranted by the Engine Manufacturer, *not* by Banjo Corporation. Please see engine/motor owners manual. Engine/motor repair, engine replacement parts, and engine warranty claims must be handled through an authorized engine dealer in your locality.



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# Polypropylene Micro Valves

## FEATURES

- 90° rotating handle.
- Precision molded polypropylene is reinforced with fiberglass for additional strength.
- Standard FKM (viton type) seats and O-rings.
- Maximum operating pressure 300 P.S.I.



LV038050MTV

LV038MTV

LV050100MTV

### POLY MICRO VALVES

| PART NO | DESCRIPTION                 | MAX<br>PSI | THREAD<br>SIZE | OPENING<br>THRU BALL | QTY | PRICE   |
|---------|-----------------------------|------------|----------------|----------------------|-----|---------|
| LV025V  | 1/4" Female NPT Micro Valve | 300        | 1/4"           | 3/8"                 | 1   | \$16.12 |
| LV038V  | 3/8" Female NPT Micro Valve | 300        | 3/8"           | 3/8"                 | 1   | \$16.12 |
| LV050V  | 1/2" Female NPT Micro Valve | 300        | 1/2"           | 15/32"               | 1   | \$17.18 |

### POLY MICRO VALVES

| PART NO     | DESCRIPTION                             | MAX<br>PSI | THREAD<br>SIZE | OPENING<br>THRU BALL | QTY | PRICE   |
|-------------|-----------------------------------------|------------|----------------|----------------------|-----|---------|
| LV025MTV    | 1/4" Female x Male NPT Micro Valve      | 300        | 1/4"           | 3/8"                 | 1   | \$16.12 |
| LV038MTV    | 3/8" Female x Male NPT Micro Valve      | 300        | 3/8"           | 3/8"                 | 1   | \$16.12 |
| LV038050MTV | 3/8" Female x 1/2" Male NPT Micro Valve | 300        | 3/8"x1/2"      | 3/8"                 | 1   | \$17.18 |
| LV050MTV    | 1/2" Female x Male NPT Micro Valve      | 300        | 1/2"           | 15/32"               | 1   | \$17.18 |
| LV050100MTV | 1/2" Female x 1" Male NPT Micro Valve   | 300        | 1/2"           | 15/32"               | 1   | \$17.18 |



LVHB038050MTV



LVHB075100MTV

### POLY MICRO VALVES

| PART NO  | DESCRIPTION                | MAX<br>PSI | THREAD<br>SIZE | OPENING<br>THRU BALL | QTY | PRICE   |
|----------|----------------------------|------------|----------------|----------------------|-----|---------|
| LVHB025V | 1/4" Hose Barb Micro Valve | 300        | 1/4"           | 3/8"                 | 1   | \$16.12 |
| LVHB038V | 3/8" Hose Barb Micro Valve | 300        | 3/8"           | 3/8"                 | 1   | \$16.12 |
| LVHB050V | 1/2" Hose Barb Micro Valve | 300        | 1/2"           | 15/32"               | 1   | \$17.18 |
| LVHB075V | 3/4" Hose Barb Micro Valve | 300        | 3/4"           | 15/32"               | 1   | \$17.18 |

### POLY MICRO VALVES

| PART NO       | DESCRIPTION                                | MAX<br>PSI | THREAD<br>SIZE | OPENING<br>THRU BALL | QTY | PRICE   |
|---------------|--------------------------------------------|------------|----------------|----------------------|-----|---------|
| LVHB038050MTV | 3/8" Hose Barb x 1/2" Male NPT Micro Valve | 300        | 3/8"           | 3/8"                 | 1   | \$17.18 |
| LVHB075100MTV | 3/4" Hose Barb x 1" Male NPT Micro Valve   | 300        | 3/4"           | 15/32"               | 1   | \$17.18 |

# Polypropylene Bolted Ball Valves

## FEATURES

- FKM (viton type) seals.
- Precision molded polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- PTFE self-lubricating stem bushings and seats cannot stick or bind.
- Stainless steel bolts.

### 4 BOLT VALVES

| PART NO | DESCRIPTION                | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY    | PRICE   |
|---------|----------------------------|---------|-----------|-------------------|--------|---------|
| V050    | 1/2" Full Port Valve       | 150     | 1/2"      | 3/4"              | 24/box | \$39.68 |
| V075    | 3/4" Full Port Valve       | 150     | 3/4"      | 3/4"              | 24/box | \$39.68 |
| V100    | 1" Standard Port Valve     | 150     | 1"        | 3/4"              | 24/box | \$39.68 |
| V100FP  | 1" Full Port Valve         | 150     | 1"        | 1"                | 24/box | \$43.75 |
| V125    | 1 1/4" Standard Port Valve | 150     | 1 1/4"    | 1"                | 24/box | \$43.75 |
| V125FP  | 1 1/4" Full Port Valve     | 150     | 1 1/4"    | 1 1/2"            | 24/box | \$56.24 |
| V150    | 1 1/2" Full Port Valve     | 150     | 1 1/2"    | 1 1/2"            | 24/box | \$56.24 |
| V200    | 2" Standard Port Valve     | 150     | 2"        | 1 1/2"            | 24/box | \$56.24 |

## FEATURES FOR LOCKING DEVICE

- 304 Stainless steel construction.
- Installs under valve handle.
- Comes complete with handle and locking device.
- Padlock not included\*

### LOCKING DEVICE

| PART NO  | DESCRIPTION    | VALVE USED          | QTY | PRICE   |
|----------|----------------|---------------------|-----|---------|
| VL20153* | Locking Device | V125FP, V150 & V200 | 1   | \$15.12 |

## FEATURES FOR MOUNTING BRACKETS

- 316 Stainless steel construction.
- Straight and 90° available.

### MOUNTING BRACKETS

| PART NO | DESCRIPTION               | VALVE USED    | QTY | PRICE   |
|---------|---------------------------|---------------|-----|---------|
| V10270  | Straight Mounting Bracket | V100FP & V125 | 1   | \$8.95  |
| V10271  | 90° Mounting Bracket      | V100FP & V125 | 1   | \$8.95  |
| V25270  | Straight Mounting Bracket | V150 & V200   | 1   | \$14.95 |
| V25271  | 90° Mounting Bracket      | V150 & V200   | 1   | \$17.63 |

## FEATURES FOR REMOVABLE HANDLE KIT

- Removable handle deters opening the valve for safety, vandalism and theft.

### REMOVABLE HANDLE KIT

| PART NO | DESCRIPTION          | VALVE USED          | QTY | PRICE   |
|---------|----------------------|---------------------|-----|---------|
| VRH200K | Removable Handle Kit | V125FP, V150 & V200 | 1   | \$30.78 |

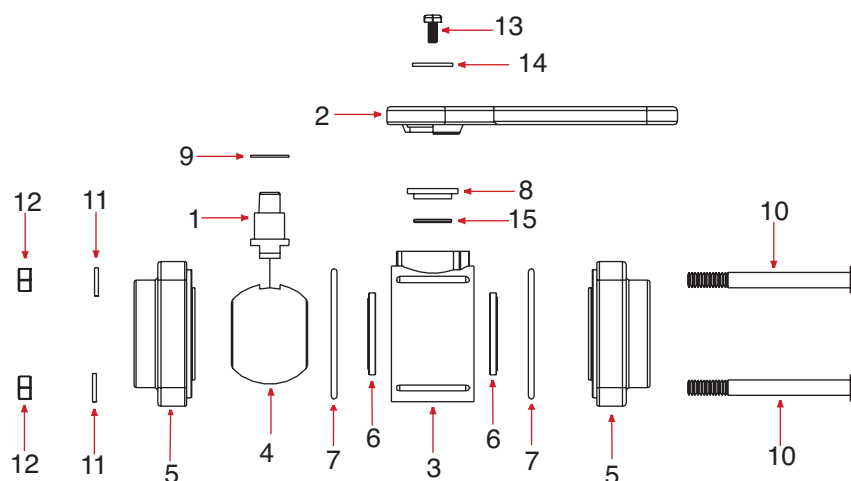
## FEATURES FOR HANDLE RISERS

- Allows extra clearance between handle and body for tight spaces.

### HANDLE RISERS

| PART NO     | DESCRIPTION                  | VALVE USED                        | QTY | PRICE  |
|-------------|------------------------------|-----------------------------------|-----|--------|
| V10153138BL | 1" x 1 3/8" Handle Offset    | V075BL & V100BL                   | 1   | \$6.62 |
| V10153138   | 1" x 1 3/8" Handle Offset    | V100FP, V125, V075SL & V100SL     | 1   | \$6.62 |
| V20153138BL | 2" x 1 3/8" Handle Offset    | MV200BL, V125BL & V150BL          | 1   | \$6.62 |
| V20153138   | 2" x 1 3/8" Handle Offset    | V125FP, V150, V200 V125SL, V150SL | 1   | \$6.62 |
| V25153138BL | 2" FP x 1 3/8" Handle Offset | MV220BL & MV300BL                 | 1   | \$6.62 |
| V25153138   | 2" FP x 1 3/8" Handle Offset | V200FP & V200SL                   | 1   | \$6.62 |



**REPLACEMENT PARTS V050-V075-V100**

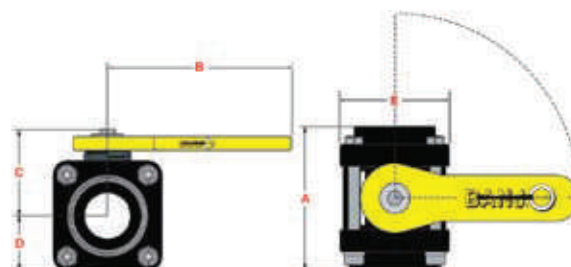
| ITEM | PART NO  | DESCRIPTION                        | QTY | PRICE   |
|------|----------|------------------------------------|-----|---------|
| 1    | V07151A  | Stem                               | 1   | \$3.76  |
| 2    | V10153A  | Handle                             | 1   | \$4.30  |
| 3    | V07254   | Valve Body                         | 1   | \$8.17  |
| 4    | V07155*  | Valve Ball                         | 1   | \$6.47  |
| 5    | V05256   | 1/2" End Plate                     | 2   | \$9.41  |
| 5    | V07257   | 3/4" End Plate                     | 2   | \$9.42  |
| 5    | V07256   | 1" End Plate                       | 2   | \$9.42  |
| 6    | V07258A* | Ball Seat                          | 2   | \$4.78  |
| 7    | V07264*  | FKM (viton type) Valve Body O-Ring | 2   | \$4.78  |
| 8    | V07159*  | Upper Stem Bushing                 | 1   | \$2.29  |
| 9    | V07060*  | Thrust Washer                      | 1   | \$2.29  |
| 10   | V07017   | 1/4" x 3" SS Body Bolt             | 4   | \$1.12  |
| 11   | V07018   | 1/4" SS Lock Washer                | 4   | \$0.42  |
| 12   | V07019   | 1/4" SS Nut                        | 4   | \$0.42  |
| 13   | V10020A  | #10 x 3/4" SS Handle Bolt          | 1   | \$1.03  |
| 14   | V07021A  | SS Handle Washer                   | 1   | \$0.42  |
| 15   | V07163*  | FKM (viton type) Stem O-Ring       | 1   | \$1.46  |
| N/S  | V07200   | Repair Kit                         | 1   | \$23.08 |

**REPLACEMENT PARTS V100FP-V125**

| ITEM | PART NO  | DESCRIPTION                        | QTY | PRICE   |
|------|----------|------------------------------------|-----|---------|
| 1    | V10151A  | Stem                               | 1   | \$4.30  |
| 2    | V10153A  | Handle                             | 1   | \$4.30  |
| 3    | V10254   | Valve Body                         | 1   | \$8.46  |
| 4    | V10155*  | Valve Ball                         | 1   | \$7.09  |
| 5    | V10257   | 1" Full Port End Plate             | 2   | \$11.31 |
| 5    | V10256   | 1 1/4" End Plate                   | 2   | \$11.31 |
| 6    | V10258A* | Ball Seat                          | 2   | \$6.11  |
| 7    | V10264   | FKM (viton type) Valve Body O-Ring | 2   | \$5.83  |
| 8    | V10159*  | Upper Stem Bushing                 | 1   | \$2.51  |
| 9    | V10060*  | Thrust Washer                      | 1   | \$1.53  |
| 10   | V10117   | 5/16" x 3 1/2" SS Body Bolt        | 4   | \$1.38  |
| 11   | V10118   | 5/16" SS Lock Washer               | 4   | \$0.42  |
| 12   | V10119   | 5/16" SS Nut                       | 4   | \$0.56  |
| 13   | V10020A  | #10 x 3/4" SS Handle Bolt          | 1   | \$1.03  |
| 14   | V07021A  | SS Handle Washer                   | 1   | \$0.42  |
| 15   | V10163*  | FKM (viton type) Stem O-Ring       | 1   | \$2.11  |
| N/S  | V10200   | Repair Kit                         | 1   | \$27.62 |
| N/S  | V10270   | Straight Mounting Bracket          | 1   | \$8.95  |
| N/S  | V10271   | 90° Mounting Bracket               | 1   | \$8.95  |

**REPLACEMENT PARTS V125FP-V150-V200**

| ITEM | PART NO  | DESCRIPTION                         | QTY | PRICE   |
|------|----------|-------------------------------------|-----|---------|
| 1    | V20151M  | Stem                                | 1   | \$8.62  |
| 2    | V20153   | Handle                              | 1   | \$8.62  |
| 2    | V20353T  | T Handle                            | 1   | \$8.62  |
| N/S  | V20353C  | 1 1/8" Plug for T-Handle (Cap Plug) | 1   | \$2.11  |
| 3    | V20254   | Valve Body                          | 1   | \$12.08 |
| 4    | V20255A* | Valve Ball                          | 1   | \$11.81 |
| 5    | V20256   | 2" End Plate                        | 2   | \$12.58 |
| 5    | V20257   | 1 1/2" End Plate                    | 2   | \$12.58 |
| 5    | V20267   | 1 1/4" Full Port End Plate          | 2   | \$12.58 |
| 6    | V20258A* | Ball Seat                           | 2   | \$9.59  |
| 7    | V20264*  | FKM (viton type) Valve Body O-Ring  | 2   | \$9.59  |
| 8    | V20159*  | Upper Stem Bushing                  | 1   | \$3.06  |
| 9    | V20060*  | Thrust Washer                       | 1   | \$2.11  |
| 10   | V20017   | 3/8" x 4" SS Body Bolt              | 4   | \$1.72  |
| 11   | V20018   | 3/8" SS Lock Washer                 | 4   | \$0.42  |
| 12   | V20019   | 3/8" 16 SS Hex Nut                  | 4   | \$1.03  |
| 13   | V20020   | 1/4" x 1/2" SS Handle Bolt          | 1   | \$0.84  |
| 14   | V20021   | SS Handle Washer                    | 1   | \$0.42  |
| 15   | V20163*  | FKM (viton type) Stem O-Ring        | 1   | \$2.64  |
| N/S  | V20200   | Repair Kit                          | 1   | \$41.44 |

**DIMENSION CHART IN INCHES (REFER TO DRAWING ABOVE)**

| PART NO | DESCRIPTION         | A    | B    | C    | D    | E    |
|---------|---------------------|------|------|------|------|------|
| V050    | Full Port Valve     | 3.44 | 3.37 | 2.06 | 1.25 | 2.50 |
| V075    | Full Port Valve     | 3.44 | 3.37 | 2.06 | 1.25 | 2.50 |
| V100    | Standard Port Valve | 3.44 | 3.37 | 2.06 | 1.25 | 2.50 |
| V100FP  | Full Port Valve     | 4.19 | 3.31 | 2.44 | 1.81 | 3.50 |
| V125    | Standard Port Valve | 4.19 | 3.31 | 2.44 | 1.81 | 3.50 |
| V125FP  | Full Port Valve     | 4.72 | 5.90 | 2.70 | 1.92 | 3.50 |
| V150    | Full Port Valve     | 4.72 | 5.90 | 2.70 | 1.92 | 3.50 |
| V200    | Standard Port Valve | 4.72 | 5.90 | 2.70 | 1.92 | 3.50 |

\*Valve repair kits contain items marked with asterisk :

 1 Ball      2 Body O-Rings      1 Thrust Washer  
 2 Ball Seats   1 Upper Stem Bushing   1 Stem O-Ring

# Polypropylene Bolted Ball Valves

## FEATURES

- FKM (viton type) seals.
- PTFE self-lubricating stem bushings and seats cannot stick or bind.
- Precision molded in polypropylene.
- Polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation.
- Valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- Stainless steel bolts.

### 6 BOLT VALVES

| PART NO | DESCRIPTION            | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY   | PRICE    |
|---------|------------------------|---------|-----------|-------------------|-------|----------|
| V200FP  | 2" Full Port Valve     | 150     | 2"        | 2"                | 8/box | \$79.20  |
| V300    | 3" Standard Port Valve | 100     | 3"        | 2½"               | 8/box | \$127.49 |
| V300FP  | 3" Full Port Valve     | 100     | 3"        | 3"                | 6/box | \$189.26 |
| V400    | 4" Standard Port Valve | 75      | 4"        | 3½"               | 4/box | \$413.65 |

### 6 BOLT VALVES w/ "F" ADAPTER

| PART NO    | DESCRIPTION                       | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY   | PRICE   |
|------------|-----------------------------------|---------|-----------|-------------------|-------|---------|
| VFMT200FP  | 2" Full Port Valve w/ "F" Adapter | 150     | 2"        | 2"                | 6/box | \$92.09 |
| VFMT200FPH | 2" Full Port Valve w/ "F" Adapter | 150     | 2"        | 2"                | 6/box | \$92.09 |

## FEATURES FOR LOCKING HANDLE

- Stainless steel hardware.
- Locks in open and closed positions.
- Locking handle replaces standard handle.\*\*
- Padlock not included.\*

### LOCKING HANDLE FEATURES

| PART NO  | DESCRIPTION    | VALVE USED                                           | QTY | PRICE   |
|----------|----------------|------------------------------------------------------|-----|---------|
| VL25153* | Locking Handle | V200FP, V300, V300FP, V400<br>VFMT200FP & VFMT200FPH | 1   | \$29.16 |

\*\*Sold separately.

## FEATURES FOR MOUNTING BRACKETS

- 316 Stainless steel construction.
- Straight and 90° available.

### MOUNTING BRACKETS

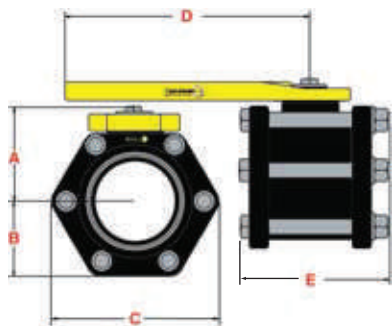
| PART NO | DESCRIPTION               | VALVE USED                                           | QTY | PRICE   |
|---------|---------------------------|------------------------------------------------------|-----|---------|
| V25270  | Straight Mounting Bracket | V200FP, V300, V300FP, V400<br>VFMT200FP & VFMT200FPH | 1   | \$14.95 |
| V25271  | 90° Mounting Bracket      | V200FP, V300, V300FP, V400<br>VFMT200FP & VFMT200FPH | 1   | \$17.63 |

## FEATURES FOR REMOVABLE HANDLE KIT

- Removable handle deters opening the valve for safety, vandalism and theft.

### REMOVABLE HANDLE KIT

| PART NO | DESCRIPTION          | VALVE USED            | QTY | PRICE   |
|---------|----------------------|-----------------------|-----|---------|
| VRH220K | Removable Handle Kit | V200FP, V300 & V300FP | 1   | \$31.91 |



VFMT200FP  
(shown w/ long handle)



VL25153



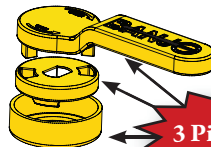
V25270



V25271



VRH220K



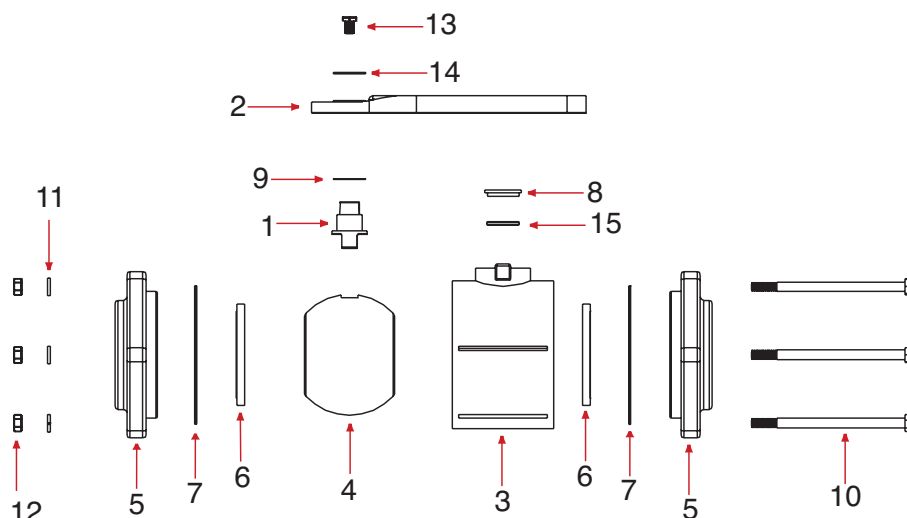
3 Piece Kit

### DIMENSION CHART IN INCHES (REFER TO DRAWING ON LEFT)

| PART NO    | DESCRIPTION         | A    | B    | C    | D    | E    |
|------------|---------------------|------|------|------|------|------|
| V200FP     | Full Port Valve     | 3.25 | 2.38 | 5.44 | 9.25 | 5.50 |
| V300       | Standard Port Valve | 3.53 | 2.69 | 6.28 | 9.25 | 6.06 |
| V300FP     | Full Port Valve     | 4.25 | 3.25 | 7.35 | 9.25 | 6.40 |
| V400       | Standard Port Valve | 4.50 | 3.60 | 8.19 | 9.25 | 7.88 |
| VFMT200FP  | Full Port Valve     | 3.38 | 2.38 | 5.44 | 9.25 | 8.30 |
| VFMT200FPH | Full Port Valve     | 3.38 | 2.38 | 5.44 | 5.25 | 8.30 |







### REPLACEMENT PARTS V200FP-VFMT200FP-VFMT200FPSH-V300-V300FP-V400

| ITEM | PART NO | DESCRIPTION                                                         | QTY | PRICE   |
|------|---------|---------------------------------------------------------------------|-----|---------|
| 1    | V25151B | Stem                                                                | 1   | \$13.20 |
| 2    | V25153  | Handle                                                              | 1   | \$13.18 |
| 8    | V25160* | Upper Stem Bushing                                                  | 1   | \$4.16  |
| 9    | V25060* | Thrust Washer                                                       | 1   | \$2.11  |
| 11   | V20018  | 1/4" SS Lock Washer                                                 | 4   | \$0.42  |
| 12   | V20019  | 3/8" 16 SS Hex Nut                                                  | 4   | \$1.03  |
| 13   | V25020  | #10 x 3/4" SS Handle Bolt                                           | 1   | \$1.72  |
| 14   | V25121  | SS Handle Washer                                                    | 1   | \$0.56  |
| 15   | V25163* | FKM (viton type) Stem O-Ring                                        | 1   | \$3.61  |
| N/S  | V25271  | 90° Mounting Bracket<br>Fits V150, V200, V200FP, V300 & V300FP      | 1   | \$17.63 |
| N/S  | V25270  | Straight Mounting Bracket<br>Fits V150, V200, V200FP, V300 & V300FP | 1   | \$14.95 |

### REPLACEMENT PARTS V200FP-VFMT200FP-VFMT200FPSH

| ITEM | PART NO  | DESCRIPTION                        | QTY | PRICE   |
|------|----------|------------------------------------|-----|---------|
| 2    | V25153SH | Short Handle for VFMT200FPSH       | 1   | \$13.18 |
| 3    | V25254   | Valve Body                         | 1   | \$16.39 |
| 4    | V25255A* | Valve Ball                         | 1   | \$12.64 |
| 5    | V25256   | 2" End Plate Female NPT            | 2   | \$18.48 |
| 5    | VMT25256 | 2" End Plate Male NPT              | 1   | \$37.84 |
| 5    | VF25256  | 2" End Plate Male Adapter          | 1   | \$37.84 |
| 6    | V25258A* | Ball Seat                          | 2   | \$11.66 |
| 7    | V25264*  | FKM (viton type) Valve Body O-Ring | 2   | \$9.81  |
| 10   | V25017   | 3/8" x 4 1/2" SS Body Bolt         | 6   | \$2.36  |
| N/S  | V25200   | Repair Kit                         | 1   | \$54.54 |

### REPLACEMENT PARTS V300

| ITEM | PART NO  | DESCRIPTION                        | QTY | PRICE   |
|------|----------|------------------------------------|-----|---------|
| 3    | V30254   | Valve Body                         | 1   | \$24.31 |
| 4    | V30255*  | Valve Ball                         | 1   | \$22.56 |
| 5    | V30264   | 3" End Plate                       | 2   | \$33.48 |
| 6    | V30258A* | Ball Seat                          | 2   | \$12.64 |
| 7    | V30265*  | FKM (viton type) Valve Body O-Ring | 2   | \$11.26 |
| 10   | V30017   | 3/8" x 5" SS Body Bolt             | 6   | \$3.48  |
| N/S  | V30200   | Repair Kit                         | 1   | \$76.78 |

### REPLACEMENT PARTS V300FP

| ITEM | PART NO  | DESCRIPTION                        | QTY | PRICE    |
|------|----------|------------------------------------|-----|----------|
| 3    | V35254   | Valve Body                         | 1   | \$33.67  |
| 4    | V35255A* | Valve Ball                         | 1   | \$36.81  |
| 5    | V35264   | 3" FP End Plate                    | 2   | \$47.93  |
| 6    | V35258A* | Ball Seat                          | 2   | \$20.50  |
| 7    | V35265*  | FKM (viton type) Valve Body O-Ring | 2   | \$13.76  |
| 10   | V35017   | 3/8" x 6" SS Body Bolt             | 6   | \$4.87   |
| N/S  | V35200   | Repair Kit                         | 1   | \$140.96 |

### REPLACEMENT PARTS V400

| ITEM | PART NO | DESCRIPTION                        | QTY | PRICE    |
|------|---------|------------------------------------|-----|----------|
| 3    | V40254  | Valve Body                         | 1   | \$44.81  |
| 4    | V40255* | Valve Ball                         | 1   | \$47.93  |
| 5&6  | V40264  | End Plate w/PTFE Ball Seat         | 2   | \$61.80  |
| 7    | V40265* | FKM (viton type) Valve Body O-Ring | 2   | \$16.68  |
| 10   | V40017  | 3/8" x 7 1/2" SS Body Bolt         | 6   | \$13.88  |
| N/S  | V40200  | Repair Kit                         | 1   | \$162.90 |

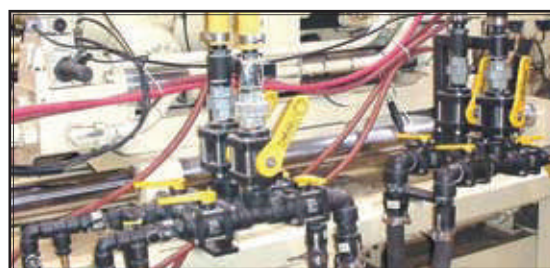
\*Valve repair kits contain items marked with asterisk :

|              |                      |                 |
|--------------|----------------------|-----------------|
| 1 Ball       | 2 Body O-Rings       | 1 Thrust Washer |
| 2 Ball Seats | 1 Upper Stem Bushing | 1 Stem O-Ring   |

# 2" Full Port Polypropylene Bolted Ball Valves

## FEATURES

- FKM (viton type) seals.
- Stainless steel bolts.
- PTFE self-lubricating stem bushings and seats cannot stick or bind.
- Precision molded in polypropylene.
- Polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation.
- Valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- Maximum operating pressure 150 P.S.I. @ 70°F & 75 P.S.I. @ 150°F.



| 4 BOLT FULL PORT VALVES |                                            |            |              |                      |       |         |
|-------------------------|--------------------------------------------|------------|--------------|----------------------|-------|---------|
| PART NO                 | DESCRIPTION                                | MAX<br>PSI | PIPE<br>SIZE | OPENING<br>THRU BALL | QTY   | PRICE   |
| V204FP                  | 2" Full Port Valve                         | 150        | 2"           | 2"                   | 8/box | \$75.08 |
| VFMT204FP               | 2" Full Port Valve Male NPT x Male Adapter | 150        | 2"           | 2"                   | 6/box | \$83.93 |

# 2" Full Port ANSI Flange Bolted Ball Valves

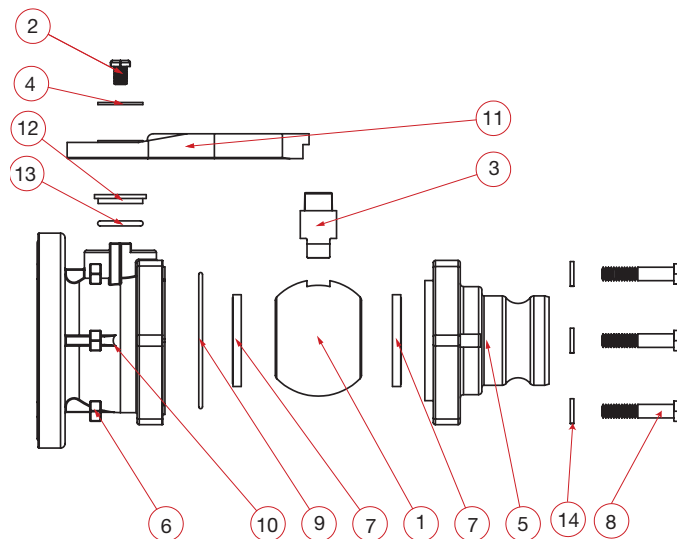
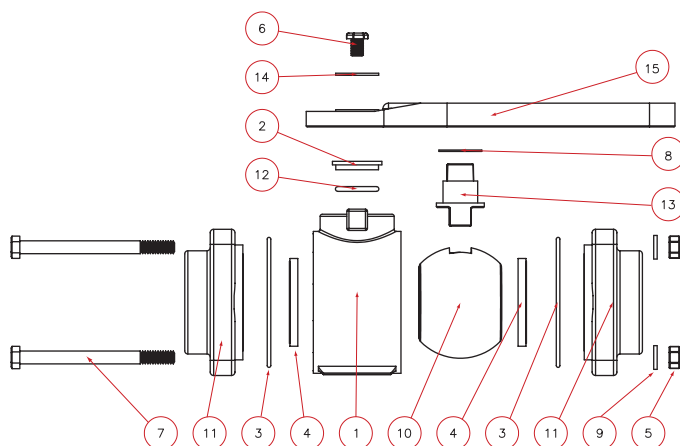
## FEATURES

- 100% PTFE seats.
- FKM (viton type) seals.
- Glass-filled polypropylene.
- Unique compact design.
- Lightweight.
- Maximum operating pressure 100 P.S.I. @ 70°F & 75 P.S.I. @ 150°F.



| FULL PORT ANSI FLANGE VALVES |                                                  |            |              |                      |       |          |
|------------------------------|--------------------------------------------------|------------|--------------|----------------------|-------|----------|
| PART NO                      | DESCRIPTION                                      | MAX<br>PSI | PIPE<br>SIZE | OPENING<br>THRU BALL | QTY   | PRICE    |
| VSF200FPAF                   | 2" Full Port Valve Male Adapter x 2" ANSI Flange | 100        | 2"           | 2"                   | 6/box | \$175.65 |
| VSMT200FPAF                  | 2" Full Port Valve Male NPT x 2" ANSI Flange     | 100        | 2"           | 2"                   | 6/box | \$175.65 |

See our 2" ANSI flange gaskets on page 101!

**REPLACEMENT PARTS VFMT204FP**

| ITEM | PART NO  | DESCRIPTION                  | QTY | PRICE   |
|------|----------|------------------------------|-----|---------|
| 1    | V25254   | 2" FP Valve Body             | 1   | \$16.39 |
| 2    | V25160   | Upper Stem Bushing           | 1   | \$4.16  |
| 3    | V25264   | FKM (viton type) Body O-Ring | 2   | \$9.81  |
| 4    | V25258A  | 2" FP Ball Seat              | 2   | \$11.66 |
| 5    | V20019   | 3/8" 16 SS Hex Nut           | 4   | \$1.03  |
| 6    | V25020   | 3/8" x 1/2" Handle Bolt      | 1   | \$1.72  |
| 7    | V25017   | 3/8" x 4 1/2" SS Body Bolt   | 4   | \$2.36  |
| 8    | V25060   | Thrust Bushing               | 1   | \$2.11  |
| 9    | V20018   | 3/8" SS Lock Washer          | 4   | \$0.42  |
| 10   | V25255A  | 2" Ball                      | 1   | \$12.64 |
| 11   | VF25356  | 2" End Plate Male Adapter    | 1   | \$31.26 |
| 11   | VMT25356 | 2" MPT End Plate             | 1   | \$31.26 |
| 12   | V25163   | FKM (viton type) Stem O-Ring | 1   | \$3.61  |
| 13   | V25151B  | Stem                         | 1   | \$13.20 |
| 14   | V25121   | Handle Washer                | 1   | \$0.56  |
| 15   | V25153   | Handle                       | 1   | \$13.18 |

**REPLACEMENT PARTS VSF200FPAF**

| ITEM | PART NO  | DESCRIPTION                  | QTY | PRICE   |
|------|----------|------------------------------|-----|---------|
| 1    | V25255A  | 2" FP Ball                   | 1   | \$12.64 |
| 2    | V25020   | 3/8" x 1/2" Handle Bolt      | 1   | \$1.72  |
| 3    | VS25151B | Stem                         | 1   | \$13.18 |
| 4    | V25121   | Handle Washer                | 1   | \$0.56  |
| 5    | VF25256  | 2" FP "F" End Plate          | 1   | \$37.84 |
| 6    | V20019   | 3/8"-16 SS Hex Nut           | 6   | \$1.03  |
| 7    | V25258A  | 2" FP Ball Seat              | 2   | \$11.66 |
| 8    | V20010   | 3/8"-16 x 2" HHCS            | 6   | \$1.03  |
| 9    | V25264   | FKM (viton type) Body O-Ring | 1   | \$9.81  |
| 10   | V25245   | 2" FP ANSI Flange Valve Body | 1   | \$73.59 |
| 11   | V25153SH | Handle                       | 1   | \$13.18 |
| 12   | V25160   | Upper Stem Bushing           | 1   | \$4.16  |
| 13   | V25163   | FKM (viton type) Stem O-Ring | 1   | \$3.61  |
| 14   | V20018   | 3/8" SS Lock Washer          | 6   | \$0.42  |

**REPLACEMENT PARTS V204FP**

| ITEM | PART NO | DESCRIPTION                  | QTY | PRICE   |
|------|---------|------------------------------|-----|---------|
| 1    | V25254  | 2" FP Valve Body             | 1   | \$16.39 |
| 2    | V25160  | Upper Stem Bushing           | 1   | \$4.16  |
| 3    | V25264  | FKM (viton type) Body O-Ring | 2   | \$9.81  |
| 4    | V25258A | 2" FP Ball Seat              | 2   | \$11.66 |
| 5    | V20019  | 3/8" 16 SS Hex Nut           | 4   | \$1.03  |
| 6    | V25020  | 3/8" x 1/2" Handle Bolt      | 1   | \$1.72  |
| 7    | V25017  | 3/8" x 4 1/2" SS Body Bolt   | 4   | \$2.36  |
| 8    | V25060  | Thrust Bushing               | 1   | \$2.11  |
| 9    | V20018  | 3/8" SS Lock Washer          | 4   | \$0.42  |
| 10   | V25255A | 2" Ball                      | 1   | \$12.64 |
| 11   | V25456  | 2" Full Port End Plate       | 2   | \$18.48 |
| 12   | V25163  | FKM (viton type) Stem O-Ring | 1   | \$3.61  |
| 13   | V25151B | Stem                         | 1   | \$13.20 |
| 14   | V25121  | Handle Washer                | 1   | \$0.56  |
| 15   | V25153  | Handle                       | 1   | \$13.18 |

**REPLACEMENT PARTS VSMT200FPAF**

| ITEM | PART NO  | DESCRIPTION                  | QTY | PRICE   |
|------|----------|------------------------------|-----|---------|
| 1    | V25255A  | 2" FP Ball                   | 1   | \$12.64 |
| 2    | V25020   | Handle Bolt                  | 1   | \$1.72  |
| 3    | VS25151B | Stem                         | 1   | \$13.18 |
| 4    | V25121   | Handle Washer                | 1   | \$0.56  |
| 5    | VMT25256 | 2" FP Male Thread End Plate  | 1   | \$37.84 |
| 6    | V20019   | 3/8"-16 SS Hex Nut           | 6   | \$1.03  |
| 7    | V25258A  | 2" FP Ball Seat              | 2   | \$11.66 |
| 8    | V20010   | 3/8"-16 x 2" HHCS            | 6   | \$1.03  |
| 9    | V25264   | FKM (viton type) Body O-Ring | 1   | \$9.81  |
| 10   | V25245   | 2" FP ANSI Flange Valve Body | 1   | \$73.59 |
| 11   | V25153SH | Handle                       | 1   | \$13.18 |
| 12   | V25160   | Upper Stem Bushing           | 1   | \$4.16  |
| 13   | V25163   | FKM (viton type) Stem O-Ring | 1   | \$3.61  |
| 14   | V20018   | 3/8" SS Lock Washer          | 6   | \$0.42  |

# 2" Standard Port Ball Valves "Stubby Valve"<sup>TM</sup>

PATENTED

## FEATURES

- Stainless steel bolts.
- Glass filled polypropylene.
- Multiple design options.
- Unique patented compact design.
- Lightweight.
- Maximum operating pressure  
100 P.S.I. @ 70°F & 75 P.S.I. @ 150°F.
- All PTFE seals

VSF200



VSMT200



VSFMT200

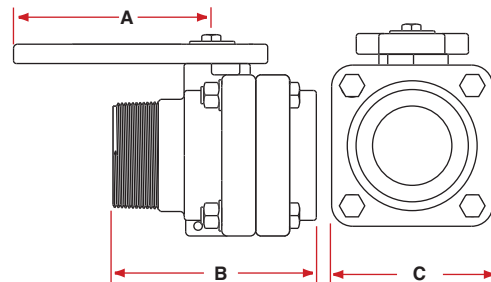


VSFHB200



## 2" STANDARD PORT STUBBY VALVES

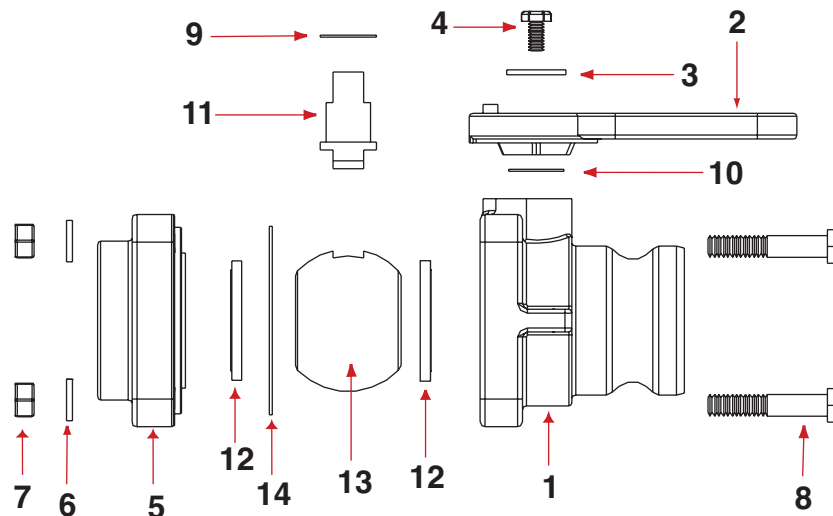
| PART NO  | DESCRIPTION                     | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY    | PRICE   |
|----------|---------------------------------|---------|-----------|-------------------|--------|---------|
| VSF200   | 2" Male Adapter x 2" Female NPT | 100     | 2"        | 1½"               | 24/box | \$61.91 |
| VSMT200  | 2" Male NPT x 2" Female NPT     | 100     | 2"        | 1½"               | 24/box | \$61.91 |
| VSFMT200 | 2" Male Adapter x 2" Male NPT   | 100     | 2"        | 1½"               | 24/box | \$65.88 |
| VSFHB200 | 2" Male Adapter x 2" Hose Barb  | 100     | 2"        | 1½"               | 24/box | \$68.64 |



## DIMENSION CHART IN INCHES (REFER TO DRAWING ABOVE)

| PART NO  | DESCRIPTION                     | A    | B    | C    |
|----------|---------------------------------|------|------|------|
| VSF200   | 2" Male Adapter x 2" Female NPT | 4.38 | 4.72 | 3.56 |
| VSMT200  | 2" Male NPT x 2" Female NPT     | 4.38 | 4.50 | 3.56 |
| VSFMT200 | 2" Male Adapter x 2" Male NPT   | 4.38 | 5.88 | 3.56 |
| VSFHB200 | 2" Male Adapter x 2" Hose Barb  | 4.38 | 6.90 | 3.56 |





\*Valve repair kits contain items marked with asterisk:

- |                      |                  |
|----------------------|------------------|
| 1 Ball               | 1 Body Gasket    |
| 2 Ball Seats         | 1 Thrust Bearing |
| 1 Upper Stem Bushing |                  |

**NOTE:** End plates and body style may vary from picture.



#### REPLACEMENT PARTS VSF200-VSMT200-VSFMT200-VSFHB200

| ITEM | PART NO   | DESCRIPTION           | QTY | PRICE   |
|------|-----------|-----------------------|-----|---------|
| 2    | VS20152SH | 2" Short Style Handle | 1   | \$8.62  |
| 3    | V20021    | Handle Washer         | 1   | \$0.42  |
| 4    | V20020    | Handle Bolt           | 1   | \$0.84  |
| 6    | V20018    | Lock Washer           | 4   | \$0.42  |
| 7    | V20019    | 3/8" 16 SS Hex Nut    | 4   | \$1.03  |
| 8    | V20010SS  | SS Body Bolt          | 4   | \$1.03  |
| 9    | V20060*   | Upper Stem Bushing    | 1   | \$2.11  |
| 10   | V20060*   | Thrust Bearing        | 1   | \$2.11  |
| 11   | VS20151   | Stem                  | 1   | \$9.59  |
| 12   | VS20258A* | Seat                  | 2   | \$9.59  |
| 13   | VS20255*  | Ball                  | 1   | \$10.41 |
| 14   | V21204*   | Body Gasket           | 1   | \$4.33  |
| N/S  | VS20200   | Repair Kit            | 1   | \$46.51 |

#### REPLACEMENT PARTS VSF200-VSFMT200

| ITEM | PART NO   | DESCRIPTION           | QTY | PRICE   |
|------|-----------|-----------------------|-----|---------|
| 1    | VF20254   | 2" "F" Body           | 1   | \$20.83 |
| 5    | VSMT20256 | 2" Male NPT End Plate | 1   | \$26.04 |



#### REPLACEMENT PARTS VSFHB200

| ITEM | PART NO   | DESCRIPTION            | QTY | PRICE   |
|------|-----------|------------------------|-----|---------|
| 1    | VF20254   | 2" "F" Body            | 1   | \$20.83 |
| 5    | VSHB20256 | 2" Hose Barb End Plate | 1   | \$26.45 |



#### REPLACEMENT PARTS VSMT200

| ITEM | PART NO   | DESCRIPTION         | QTY | PRICE   |
|------|-----------|---------------------|-----|---------|
| 1    | VSMT20254 | 2" Male NPT Body    | 1   | \$20.83 |
| 5    | VS20256   | 2" Female End Plate | 1   | \$12.58 |

# 2" Full Port Ball Valves "Stubby Valve"™

PATENTED

## FEATURES

- Stainless steel bolts.
- 100% PTFE ball seats.
- Glass-filled polypropylene.
- FKM (viton type) body seals.
- Unique compact design.
- 100 P.S.I. @ 70°F and 75 P.S.I. @ 150°F.
- Lightweight.

VSMT204FP



VSF204FP



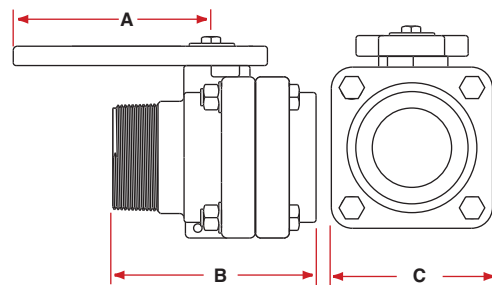
VS204FP



VSFMT204FP



VSFMT204HSFP

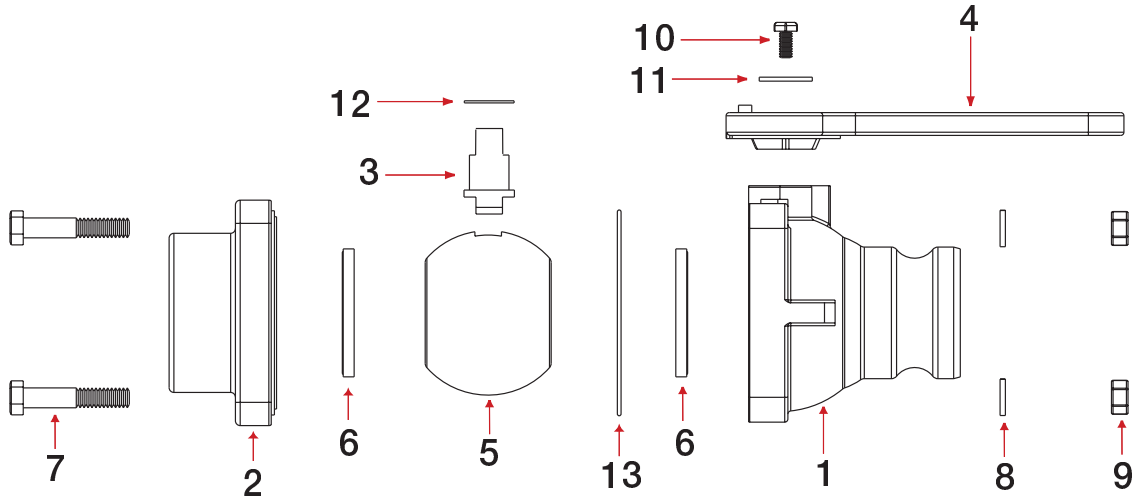


## 2" FULL PORT STUBBY VALVES

| PART NO      | DESCRIPTION                                                | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY    | PRICE    |
|--------------|------------------------------------------------------------|---------|-----------|-------------------|--------|----------|
| VSMT204FP    | 2" Male NPT x 2" Female NPT                                | 100     | 2"        | 2"                | 18/box | \$74.74  |
| VSF204FP     | 2" Male Adapter x 2" Female NPT                            | 100     | 2"        | 2"                | 18/box | \$74.74  |
| VS204FP      | 2" Female NPT x 2" Female NPT                              | 100     | 2"        | 2"                | 18/box | \$74.74  |
| VSFMT204FP   | 2" Male Adapter x 2" Male NPT                              | 100     | 2"        | 2"                | 18/box | \$74.74  |
| VSFMT204HSFP | 2" FP Male Adapter x 2" Male NPT w/ SS Ball, Stem & Handle | 100     | 2"        | 2"                | 18/box | \$196.22 |

## DIMENSION CHART IN INCHES (REFER TO DRAWING ABOVE)

| PART NO     | DESCRIPTION                                             | A    | B    | C    |
|-------------|---------------------------------------------------------|------|------|------|
| VSMT204FP   | 2" Male NPT x 2" Female NPT                             | 6.38 | 5.72 | 4.25 |
| VSMT204HSFP | 2" Male Adapter x 2" Male NPT w/ SS Ball, Stem & handle | 5.94 | 6.50 | 4.25 |
| VSF204FP    | 2" Male Adapter x 2" Female NPT                         | 6.38 | 5.91 | 4.25 |
| VS204FP     | 2" Female NPT x 2" Female NPT                           | 6.38 | 5.19 | 4.25 |
| VSFMT204FP  | 2" Male Adapter x 2" Male NPT                           | 6.38 | 6.50 | 4.25 |



### REPLACEMENT PARTS VSMT204FP-VSF204FP-VS204FP-VSFMT204FP

| ITEM | PART NO    | DESCRIPTION                | QTY | PRICE   |
|------|------------|----------------------------|-----|---------|
| 2    | VSMT25356  | 2" FP End Plate            | 1   | \$18.48 |
| 3    | VS20151    | Stem                       | 1   | \$9.59  |
| 4    | VS25153    | 2" FP Stubby Handle        | 1   | \$13.18 |
| 5    | VS25255    | 2" FP Stubby Ball          | 1   | \$12.64 |
| 6    | VS25258AR1 | 2" FP Stubby Seat          | 2   | \$5.56  |
| 7    | V20010SS   | 3/8" - 16 x 2" SS Bolt     | 4   | \$1.03  |
| 8    | V20018     | 3/8" SS Lock Washer        | 4   | \$0.42  |
| 9    | V20019     | 3/8" 16 SS Hex Nut         | 4   | \$1.03  |
| 10   | V20020     | Retaining Bearing          | 1   | \$0.84  |
| 11   | V20021     | Handle Washer              | 1   | \$0.42  |
| 12   | V20060     | PFTE Bearing Gasket        | 2   | \$2.11  |
| 13   | V25214V    | FKM (viton type) Body Seal | 1   | \$5.40  |



### REPLACEMENT PARTS VSMT204FP

| ITEM | PART NO   | DESCRIPTION                  | QTY | PRICE   |
|------|-----------|------------------------------|-----|---------|
| 1    | VFT25254  | 2" FP Stubby Female NPT Body | 1   | \$18.48 |
| 2    | VSMT25356 | 2" FP Stubby MPT End Plate   | 1   | \$18.48 |



### REPLACEMENT PARTS VSFMT204FP

| ITEM | PART NO  | DESCRIPTION                       | QTY | PRICE   |
|------|----------|-----------------------------------|-----|---------|
| 1    | VFT25254 | 2" FP Stubby Female NPT Body      | 1   | \$18.48 |
| 2    | VS25356  | 2" FP Stubby Female NPT End Plate | 1   | \$18.48 |



### REPLACEMENT PARTS VSF204FP

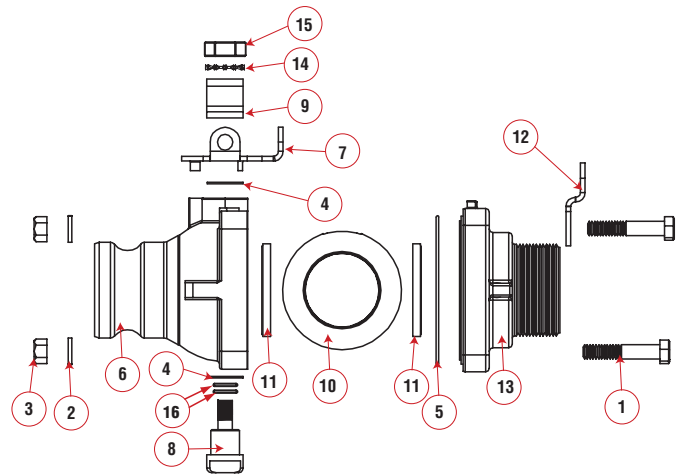
| ITEM | PART NO | DESCRIPTION                          | QTY | PRICE   |
|------|---------|--------------------------------------|-----|---------|
| 1    | VF25254 | 2" FP Stubby Male Quick Connect Body | 1   | \$17.35 |
| 2    | VS25356 | 2" FP Stubby Female NPT End Plate    | 1   | \$18.48 |



### REPLACEMENT PARTS VS204FP

| ITEM | PART NO   | DESCRIPTION                          | QTY | PRICE   |
|------|-----------|--------------------------------------|-----|---------|
| 1    | VF25254   | 2" FP Stubby Male Quick Connect Body | 1   | \$17.35 |
| 2    | VSMT25356 | 2" FP Stubby MPT End Plate           | 1   | \$18.48 |

NOTE: End plates and body style may vary from picture.



### REPLACEMENT PARTS VSFMT204HSFP

| ITEM | PART NO    | DESCRIPTION                    | QTY | PRICE   |
|------|------------|--------------------------------|-----|---------|
| 1    | V20010SS   | 3/8" - 16 x 2" SS Bolt         | 4   | \$1.03  |
| 2    | V20018     | 3/8" SS Lock Washer            | 4   | \$0.42  |
| 3    | V20019     | 3/8" 16 SS Hex Nut             | 4   | \$1.03  |
| 4    | V20060     | PFTE Bearing Gasket            | 2   | \$2.11  |
| 5    | V25214V    | FKM (viton type) Body Seal     | 1   | \$5.40  |
| 6    | VF25254    | 2" Full Port Male Adapter Body | 1   | \$17.35 |
| 7    | VS20101SS  | SS Handle Stop                 | 1   | \$29.75 |
| 8    | VS20151SS  | SS Stem                        | 1   | \$39.05 |
| 9    | VS25153SS  | SS Handle                      | 1   | \$30.83 |
| 10   | VS25255SS  | 2" FP SS Ball                  | 1   | \$74.62 |
| 11   | VS25258AR1 | 2" FP Stubby Seat              | 2   | \$5.56  |
| 12   | VS20102SS  | SS Handle Lock                 | 1   | \$14.42 |
| 13   | VSMT25356  | 2" FP Stubby MPT End Plate     | 1   | \$18.48 |
| 14   | VSS15020   | SS Handle Nut                  | 1   | \$2.26  |
| 15   | VS20021    | Washer                         | 1   | \$1.34  |
| 16   | VS20163    | FKM (viton type) O-ring        | 2   | \$1.79  |

# 3" Standard Port Ball Valves "Stubby Valve"<sup>TM</sup>

PATENTED

## FEATURES

- Stainless steel bolts.
- Glass filled polypropylene.
- FKM (viton type) body seals.
- Three design options for standard and one for full port.
- Unique patented compact design.
- 100 P.S.I. @ 70°F and 75 P.S.I. @ 150°F.
- Lightweight.
- All PTFE ball seats.



VSMT300



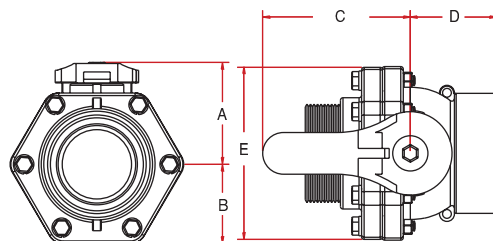
VSF300



VSFMT300

## 3" STANDARD PORT STUBBY VALVES

| PART NO  | DESCRIPTION                     | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY   | PRICE    |
|----------|---------------------------------|---------|-----------|-------------------|-------|----------|
| VSMT300  | 3" Female NPT x 3" Male NPT     | 100     | 3"        | 2½"               | 6/box | \$159.09 |
| VSF300   | 3" Female NPT x 3" Male Adapter | 100     | 3"        | 2½"               | 6/box | \$152.77 |
| VSFMT300 | 3" Male NPT x 3" Male Adapter   | 100     | 3"        | 2½"               | 6/box | \$152.77 |



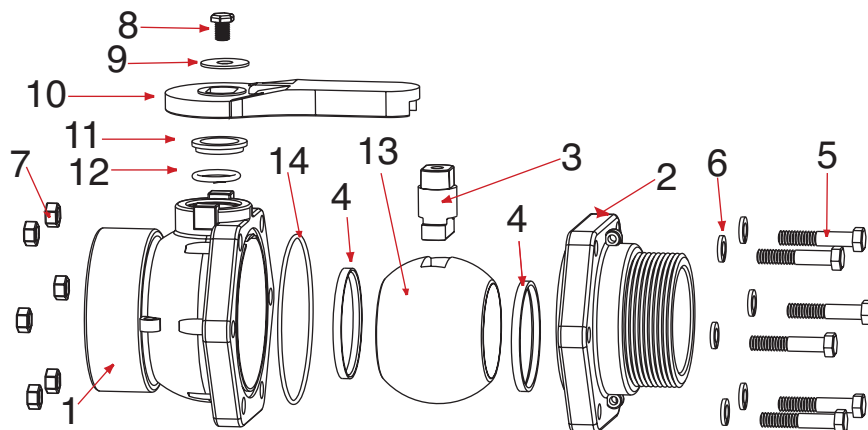
## DIMENSION CHART IN INCHES (REFER TO DRAWING ABOVE)

| PART NO  | DESCRIPTION                     | A    | B    | C*        | D    | E    |
|----------|---------------------------------|------|------|-----------|------|------|
| VSMT300  | 3" Female NPT x 3" Male NPT     | 3.63 | 2.84 | 5.25/9.25 | 4.60 | 5.09 |
| VSF300   | 3" Female NPT x 3" Male Adapter | 3.63 | 2.84 | 5.25/9.25 | 4.60 | 5.65 |
| VSFMT300 | 3" Male NPT x 3" Male Adapter   | 3.63 | 2.84 | 5.25/9.25 | 4.60 | 7.84 |

\*Short handles: Add SH to end of part number. Dimension C = 5.25"



NOTE: End plates and body style may vary from picture.



#### REPLACEMENT PARTS VSMT300-VSF300-VSFMT300

| ITEM | PART NO  | DESCRIPTION                  | QTY | PRICE   |
|------|----------|------------------------------|-----|---------|
| 3    | VS25151B | Short Stem                   | 1   | \$13.18 |
| 4    | VS30258* | 3" Stubby Seat               | 2   | \$4.45  |
| 5    | V20010SS | 3/8" - 16 x 2" SS Bolt       | 6   | \$1.03  |
| 6    | V20018   | 3/8" SS Lock Washer          | 6   | \$0.42  |
| 7    | V20019   | 3/8" 16 SS Hex Nut           | 6   | \$1.03  |
| 8    | V25020   | 3/8" x 1/2" Handle Bolt      | 1   | \$1.72  |
| 9    | V25121   | Handle Washer                | 1   | \$0.56  |
| 10   | V25153   | Handle-Straight              | 1   | \$13.18 |
| 11   | V25160*  | Upper Stem Bushing           | 1   | \$4.16  |
| 12   | V25163*  | FKM (viton type) Stem O-Ring | 1   | \$3.61  |
| 13   | VS30255* | 3" Ball                      | 1   | \$21.48 |
| 14   | V30265*  | FKM (viton type) Body O-Ring | 1   | \$11.26 |

#### REPLACEMENT PARTS VSFMT300

| ITEM | PART NO   | DESCRIPTION             | QTY | PRICE   |
|------|-----------|-------------------------|-----|---------|
| 1    | VSMT30254 | 3" MPT Stubby Body      | 1   | \$31.87 |
| 2    | VSF30264  | 3" Stubby "F" End Plate | 1   | \$27.06 |



#### REPLACEMENT PARTS VSMT300

| ITEM | PART NO   | DESCRIPTION                  | QTY | PRICE   |
|------|-----------|------------------------------|-----|---------|
| 1    | VS30254   | 3" Stubby Body               | 1   | \$31.87 |
| 2    | VSMT30264 | 3" Stubby Male NPT End Plate | 1   | \$33.06 |



#### REPLACEMENT PARTS VSF300

| ITEM | PART NO  | DESCRIPTION             | QTY | PRICE   |
|------|----------|-------------------------|-----|---------|
| 1    | VS30254  | 3" Stubby Body          | 1   | \$31.87 |
| 2    | VSF30264 | 3" Stubby "F" End Plate | 1   | \$27.06 |

\*Valve repair kits contain items marked with asterisk :

1 Ball                      2 Body O-Rings  
2 Ball Seats            1 Upper Stem Bushing   1 Stem O-Ring

# 3" Full Port Ball Valves

## "3" Stubby Valve"<sup>TM</sup>

PATENTED

### FEATURES

- Stainless steel bolts.
- Glass filled polypropylene.
- FKM (viton type) body seals.
- Three design options for standard and one for full port.
- Unique patented compact design.
- 100 P.S.I. @ 70°F and 75 P.S.I. @ 150°F.
- Lightweight.
- All PTFE ball seats.



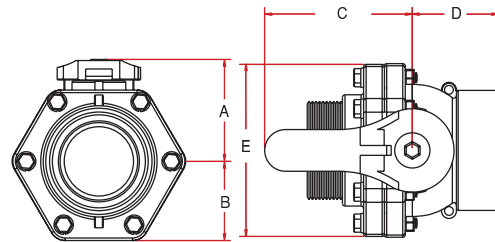
VSFMT300FP



VSFMT300HSFP

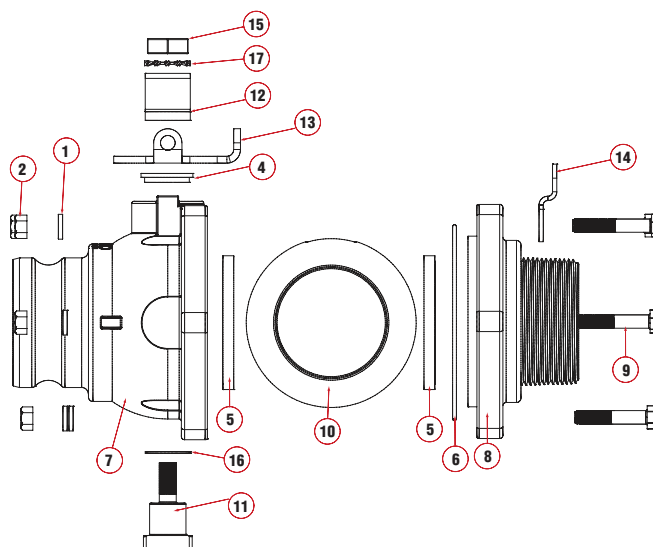
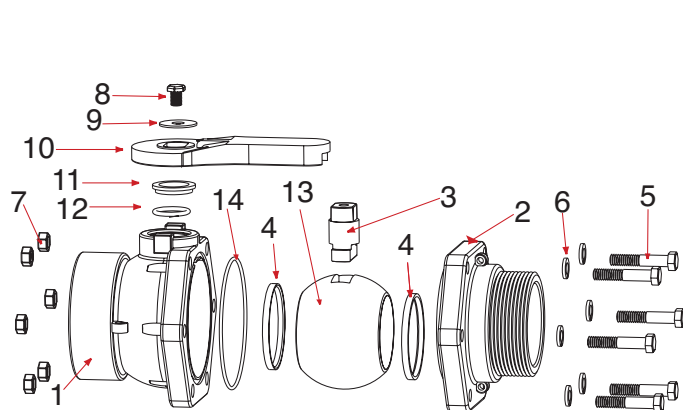
| 3" FULL PORT PORT STUBBY VALVES |                                  |            |              |                      |       |          |
|---------------------------------|----------------------------------|------------|--------------|----------------------|-------|----------|
| PART NO                         | DESCRIPTION                      | MAX<br>PSI | PIPE<br>SIZE | OPENING<br>THRU BALL | QTY   | PRICE    |
| VSFMT300FP                      | 3" FP Male Adapter x 3" Male NPT | 100        | 3"           | 3"                   | 6/box | \$193.42 |

| 3" FULL PORT STUBBY VALVES w/SS |                                                           |            |              |                      |       |          |
|---------------------------------|-----------------------------------------------------------|------------|--------------|----------------------|-------|----------|
| PART NO                         | DESCRIPTION                                               | MAX<br>PSI | PIPE<br>SIZE | OPENING<br>THRU BALL | QTY   | PRICE    |
| VSFMT300HSFP                    | 3" FP Male Adapter x 3" Male NPT w/SS ball, Stem & Handle | 100        | 3"           | 3"                   | 6/box | \$367.71 |



| DIMENSION CHART IN INCHES (REFER TO DRAWING ABOVE) |                                                           |      |      |      |      |      |
|----------------------------------------------------|-----------------------------------------------------------|------|------|------|------|------|
| PART NO                                            | DESCRIPTION                                               | A    | B    | C*   | D    | E    |
| VSFMT300FP                                         | 3" FP Male Adapter x 3" Male NPT                          | 9.25 | 8.19 | 7.31 | 0.91 | 7.34 |
| VSFMT300HSFP                                       | 3" FP Male Adapter x 3" Male NPT w/SS ball, Stem & Handle | 9.88 | 8.19 | 7.31 | 0.88 | 7.31 |

\*Short handles: Add SH to end of part number. Dimension C = 5.25"

**REPLACEMENT PARTS VSMFT300FP**

| ITEM | PART NO   | DESCRIPTION                     | QTY | PRICE   |
|------|-----------|---------------------------------|-----|---------|
| 1    | VSF35254  | 3" FP Stubby "F" Body           | 1   | \$50.61 |
| 2    | VSMT35256 | 3" FP Stubby Male NPT End Plate | 1   | \$46.30 |
| 3    | VS25151B  | Short Stem                      | 1   | \$13.18 |
| 4    | VS35258   | 3" FP Stubby Seat               | 1   | \$22.66 |
| 5    | V20010SS  | 3/8" - 16 x 2" SS Bolt          | 6   | \$1.03  |
| 6    | V20018    | 3/8" SS Lock Washer             | 6   | \$0.42  |
| 7    | V20019    | 3/8" 16 SS Hex Nut              | 6   | \$1.03  |
| 8    | V25020    | 3/8" x 1/2" Handle Bolt         | 1   | \$1.72  |
| 9    | V25121    | Handle Washer                   | 1   | \$0.56  |
| 10   | V25153    | Handle-Straight                 | 1   | \$13.18 |
| 11   | V25160*   | Upper Stem Bushing              | 1   | \$4.16  |
| 12   | V25163*   | FKM (viton type) Stem O-Ring    | 1   | \$3.61  |
| 13   | V35255A   | 3" Ball                         | 1   | \$36.81 |
| 14   | V35265    | FKM (viton type) Body O-Ring    | 1   | \$13.76 |

**REPLACEMENT PARTS VSFMT300HSFP**

| ITEM | PART NO   | DESCRIPTION                        | QTY | PRICE    |
|------|-----------|------------------------------------|-----|----------|
| 1    | V20018    | 3/8" SS Lock Washer                | 6   | \$0.42   |
| 2    | V20019    | 3/8" 16 SS Hex Nut                 | 6   | \$1.03   |
| 3    | V25163    | FKM (viton type) Stem O-Ring       | 1   | \$3.61   |
| 4    | V25160    | Upper Stem Bushing                 | 1   | \$4.16   |
| 5    | VS35258   | 3" FP Stubby Seat                  | 2   | \$22.66  |
| 6    | V35265    | FKM (viton type) Valve Body O-Ring | 1   | \$13.76  |
| 7    | VSF35254  | 3" FP Stubby "F" Body              | 1   | \$50.61  |
| 8    | VSMT35256 | 3" FP Stubby MPT End Plate         | 1   | \$46.30  |
| 9    | V20010SS  | 3/8" - 16 x 2" SS Bolt             | 6   | \$1.03   |
| 10   | V35255ASS | 3" FP SS Ball                      | 1   | \$131.84 |
| 11   | VS30151SS | SS Stem                            | 1   | \$52.53  |
| 12   | VS30153SS | SS Handle                          | 1   | \$44.29  |
| 13   | VS30101SS | SS Handle Stop                     | 1   | \$31.93  |
| 14   | VS30102SS | SS Handle Lock                     | 1   | \$11.85  |
| 15   | VSS30020  | 3/4" -16 SS Jam Nut                | 1   | \$4.22   |
| 16   | V25060    | Thrust Washer                      | 1   | \$2.11   |
| 17   | VS30021   | Washer                             | 1   | \$4.22   |

# 3-Way Poly Ball Valves

## FEATURES

- Stainless steel bolts.
- Precision molded in polypropylene. Polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- PTFE self-lubricating stem bushings and seats.
- Maximum operating pressure 100 P.S.I.
- FKM (viton type) seats.

V075BL  
V100BLV125BL  
V150BL

V200BL

### 3 WAY BOTTOM LOAD VALVES

| PART NO | DESCRIPTION                         | MAX PSI | PIPE SIZE | OPENING THRU BALL | HANDLE TYPE | QTY    | PRICE    |
|---------|-------------------------------------|---------|-----------|-------------------|-------------|--------|----------|
| V075BL  | 3/4" 3-Way Bottom Load Poly Valve   | 100     | 3/4"      | 1"                | T           | 18/box | \$57.29  |
| V100BL  | 1" 3-Way Bottom Load Poly Valve     | 100     | 1"        | 1"                | T           | 18/box | \$57.29  |
| V125BL  | 1 1/4" 3-Way Bottom Load Poly Valve | 100     | 1 1/4"    | 1 1/2"            | T           | 12/box | \$74.09  |
| V150BL  | 1 1/2" 3-Way Bottom Load Poly Valve | 100     | 1 1/2"    | 1 1/2"            | T           | 12/box | \$74.09  |
| V200BL  | 2" 3-Way Bottom Load Poly Valve     | 100     | 2"        | 2"                | Straight    | 8/box  | \$113.06 |
| VT200BL | 2" 3-Way Bottom Load Poly Valve     | 100     | 2"        | 2"                | T           | 8/box  | \$113.06 |

**BOTTOM LOAD:** Directional flow, right or left. Valve can be turned off to stop flow.

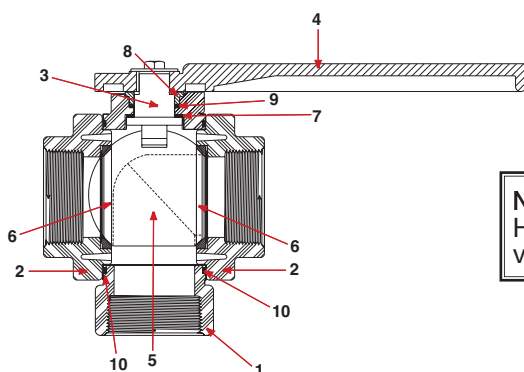
V075SL  
V100SLV125SL  
V150SLV200SL  
VT200SL

### 3 WAY SIDE LOAD VALVES

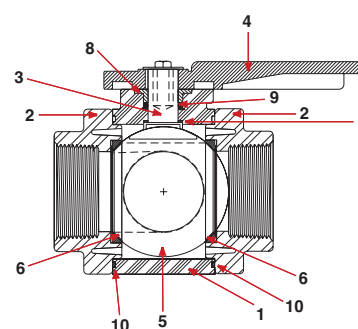
| PART NO | DESCRIPTION                       | MAX PSI | PIPE SIZE | OPENING THRU BALL | HANDLE TYPE | QTY    | PRICE    |
|---------|-----------------------------------|---------|-----------|-------------------|-------------|--------|----------|
| V075SL  | 3/4" 3-Way Side Load Poly Valve   | 100     | 3/4"      | 1"                | Straight    | 18/box | \$57.29  |
| V100SL  | 1" 3-Way Side Load Poly Valve     | 100     | 1"        | 1"                | Straight    | 18/box | \$57.29  |
| VT100SL | 1" 3-Way Side Load Poly Valve     | 100     | 1"        | 1"                | T           | 18/box | \$58.43  |
| V125SL  | 1 1/4" 3-Way Side Load Poly Valve | 100     | 1 1/4"    | 1 1/2"            | T           | 12/box | \$74.09  |
| V150SL  | 1 1/2" 3-Way Side Load Poly Valve | 100     | 1 1/2"    | 1 1/2"            | T           | 12/box | \$74.09  |
| V200SL  | 2" 3-Way Side Load Poly Valve     | 100     | 2"        | 2"                | Straight    | 8/box  | \$113.06 |
| VT200SL | 2" 3-Way Side Load Poly Valve     | 100     | 2"        | 2"                | T           | 8/box  | \$113.06 |

**SIDE LOAD:** Directional flow, right or left. Valve cannot be turned off.





**NOTE:**  
Handle style will  
vary from picture.



### Bottom Load 3-Way Poly Ball Valves

| REPLACEMENT PARTS V075BL-V100BL |          |                              |     |         |
|---------------------------------|----------|------------------------------|-----|---------|
| ITEM                            | PART NO  | DESCRIPTION                  | QTY | PRICE   |
| 1                               | V07354B  | ¾" Valve Body                | 1   | \$10.41 |
| 1                               | V10354B  | 1" Valve Body                | 1   | \$10.62 |
| 2                               | V07357   | ¾" End Plate                 | 2   | \$11.31 |
| 2                               | V10257   | 1" End Plate                 | 2   | \$11.31 |
| 3                               | V10151A  | Stem                         | 1   | \$4.30  |
| 4                               | V10353TB | Handle -T                    | 1   | \$4.30  |
| 5                               | V10355B  | Ball                         | 1   | \$7.09  |
| 6                               | V10258   | Seats                        | 2   | \$6.11  |
| 7                               | V10060   | Thrust Bushing               | 1   | \$1.53  |
| 8                               | V10159   | Upper Stem Bushing           | 1   | \$2.51  |
| 9                               | V10163   | FKM (viton type) Stem O-Ring | 1   | \$2.11  |
| 10                              | V10264   | FKM (viton type) Body O-Ring | 2   | \$5.83  |

### Side Load 3-Way Poly Ball Valves

| REPLACEMENT PARTS V075SL-V100SL-VT100SL |          |                              |     |         |
|-----------------------------------------|----------|------------------------------|-----|---------|
| ITEM                                    | PART NO  | DESCRIPTION                  | QTY | PRICE   |
| 1                                       | V07354S  | ¾" Valve Body                | 1   | \$10.62 |
| 1                                       | V10354S  | 1" Valve Body                | 1   | \$10.62 |
| 2                                       | V07357   | ¾" End Plate                 | 2   | \$11.31 |
| 2                                       | V10257   | 1" End Plate                 | 2   | \$11.31 |
| 3                                       | V10151A  | Stem                         | 1   | \$4.30  |
| 4                                       | V10153A  | Handle -Straight             | 1   | \$4.30  |
| 4                                       | V10353TS | Handle-T                     | 1   | \$4.30  |
| 5                                       | V10355S  | Ball                         | 1   | \$7.09  |
| 6                                       | V10258   | Seats                        | 2   | \$6.11  |
| 7                                       | V10060   | Thrust Bushing               | 1   | \$1.53  |
| 8                                       | V10159   | Upper Stem Bushing           | 1   | \$2.51  |
| 9                                       | V10163   | FKM (viton type) Stem O-Ring | 1   | \$2.11  |
| 10                                      | V10264   | FKM (viton type) Body O-Ring | 2   | \$5.83  |

| REPLACEMENT PARTS V125BL-V150BL |          |                              |     |         |
|---------------------------------|----------|------------------------------|-----|---------|
| ITEM                            | PART NO  | DESCRIPTION                  | QTY | PRICE   |
| 1                               | V20344B  | 1¼" Valve Body               | 1   | \$15.61 |
| 1                               | V20354B  | 1½" Valve Body               | 1   | \$15.61 |
| 2                               | V20267   | 1¼" End Plate                | 2   | \$12.58 |
| 2                               | V20257   | 1½" End Plate                | 2   | \$12.58 |
| 3                               | V20151M  | Stem                         | 1   | \$8.62  |
| 4                               | V20353TB | Handle -T                    | 1   | \$8.62  |
| 5                               | V20355B  | Ball                         | 1   | \$11.81 |
| 6                               | VE20258A | Seats                        | 2   | \$10.43 |
| 7                               | V20060   | Thrust Bushing               | 1   | \$2.11  |
| 8                               | V20159   | Upper Stem Bushing           | 1   | \$3.06  |
| 9                               | V20163   | FKM (viton type) Stem O-Ring | 1   | \$2.64  |
| 10                              | V20264   | FKM (viton type) Body O-Ring | 2   | \$9.59  |

| REPLACEMENT PARTS V125SL-V150SL |          |                              |     |         |
|---------------------------------|----------|------------------------------|-----|---------|
| ITEM                            | PART NO  | DESCRIPTION                  | QTY | PRICE   |
| 1                               | V20344S  | 1¼" Valve Body               | 1   | \$15.61 |
| 1                               | V20354S  | 1½" Valve Body               | 1   | \$15.61 |
| 2                               | V20267   | 1¼" End Plate                | 2   | \$12.58 |
| 2                               | V20257   | 1½" End Plate                | 2   | \$12.58 |
| 3                               | V20151M  | Stem                         | 1   | \$8.62  |
| 4                               | V20353TS | Handle -T                    | 1   | \$8.62  |
| 4                               | V20153   | Handle-Straight              | 1   | \$8.62  |
| 5                               | V20355S  | Ball                         | 1   | \$11.81 |
| 6                               | VE20258A | Seats                        | 2   | \$10.43 |
| 7                               | V20060   | Thrust Bushing               | 1   | \$2.11  |
| 8                               | V20159   | Upper Stem Bushing           | 1   | \$3.06  |
| 9                               | V20163   | FKM (viton type) Stem O-Ring | 1   | \$2.64  |
| 10                              | V20264   | FKM (viton type) Body O-Ring | 2   | \$9.59  |

| REPLACEMENT PARTS V200BL-VT200BL |          |                              |     |         |
|----------------------------------|----------|------------------------------|-----|---------|
| ITEM                             | PART NO  | DESCRIPTION                  | QTY | PRICE   |
| 1                                | V25354B  | 2" Valve Body                | 1   | \$16.39 |
| 2                                | V25356   | 2" End Plate                 | 2   | \$18.48 |
| 3                                | V25151B  | Stem                         | 1   | \$13.20 |
| 4                                | V25353B  | Handle-Straight              | 1   | \$13.18 |
| 4                                | V25353TB | Handle -T                    | 1   | \$13.18 |
| 5                                | V25355B  | Ball                         | 1   | \$15.41 |
| 6                                | V25258   | Seats                        | 2   | \$11.66 |
| 7                                | V25060   | Thrust Bushing               | 1   | \$2.11  |
| 8                                | V25160   | Upper Stem Bushing           | 1   | \$4.16  |
| 9                                | V25163   | FKM (viton type) Stem O-Ring | 1   | \$3.61  |
| 10                               | V25264   | FKM (viton type) Body O-Ring | 2   | \$9.81  |

| REPLACEMENT PARTS V200SL |          |                              |     |         |
|--------------------------|----------|------------------------------|-----|---------|
| ITEM                     | PART NO  | DESCRIPTION                  | QTY | PRICE   |
| 1                        | V25354S  | 2" Valve Body                | 1   | \$16.39 |
| 2                        | V25356   | 2" End Plate                 | 2   | \$18.48 |
| 3                        | V25151B  | Stem                         | 1   | \$13.20 |
| 4                        | V25153SH | Handle-Straight              | 1   | \$13.18 |
| 4                        | V25353TS | Handle -T                    | 1   | \$13.18 |
| 5                        | V25355S  | Ball                         | 1   | \$15.41 |
| 6                        | V25258   | Seats                        | 2   | \$11.66 |
| 7                        | V25060   | Thrust Bushing               | 1   | \$2.11  |
| 8                        | V25160   | Upper Stem Bushing           | 1   | \$4.16  |
| 9                        | V25163   | FKM (viton type) Stem O-Ring | 1   | \$3.61  |
| 10                       | V25264   | FKM (viton type) Body O-Ring | 2   | \$9.81  |

# Polypropylene Nozzle Valves

## FEATURES

- Lightweight hose end valve for convenient transfer of liquids into drums, tanks, etc.
- Angled end flange with 8" long polypropylene fill spout.
- All stainless bolts.



VA150  
VA200/150  
VA200



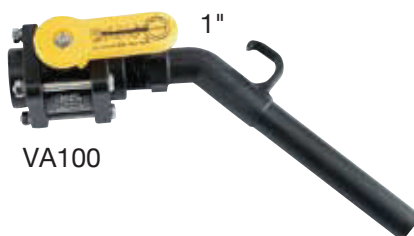
VA200FP

### 1 1/2" & 2" POLY NOZZLE VALVES W/90° ELBOW

| PART NO   | DESCRIPTION                          | MAX PSI | PIPE SIZE   | OPENING THRU BALL | FEMALE NPT  | QTY    | PRICE    |
|-----------|--------------------------------------|---------|-------------|-------------------|-------------|--------|----------|
| VA150     | 1 1/2" Nozzle Valve w/90° Elbow      | 150     | 1 1/2" x 8" | 1 1/2"            | 1 1/2"      | 12/box | \$67.71  |
| VA200/150 | 2" x 1 1/2" Nozzle Valve w/90° Elbow | 150     | 1 1/2" x 8" | 1 1/2"            | 2" x 1 1/2" | 12/box | \$67.71  |
| VA200     | 2" Nozzle Valve w/90° Elbow          | 150     | 2" x 8"     | 1 1/2"            | 2"          | 12/box | \$67.71  |
| VA200FP   | 2" FP Nozzle Valve w/90° Elbow       | 150     | 2" x 8"     | 2"                | 2"          | 6/box  | \$101.29 |

## FEATURES

- Lightweight hose end valve for convenient transfer of liquids into drums, tanks, etc.
- Angled end flange with 8" long polypropylene fill spout.
- All stainless bolts.



VA100



UVA100FP

### 1" POLY NOZZLE VALVES W/45° ELBOW

| PART NO  | DESCRIPTION                         | MAX PSI | PIPE SIZE | OPENING THRU BALL | FEMALE NPT | QTY    | PRICE   |
|----------|-------------------------------------|---------|-----------|-------------------|------------|--------|---------|
| VA100    | 1" Nozzle Valve w/45° Elbow         | 150     | 1"        | 3/4"              | 1"         | 24/box | \$46.32 |
| UVA100FP | 1" FP EPDM Nozzle Valve w/45° Elbow | 100     | 1"        | 1"                | 1"         | 1      | \$39.72 |

# Poly Dispensing Nozzle

## FEATURES

- Glass filled polypropylene.
- 304 stainless steel handle, spring and pin.
- FKM (viton type) rubber parts only.
- Resists corrosion.
- 75 P.S.I. Maximum.



VN100

### 1" POLY DISPENSING NOZZLE

| PART NO | DESCRIPTION               | MAX PSI | PIPE SIZE | OPENING THRU BALL | FEMALE NPT | QTY | PRICE   |
|---------|---------------------------|---------|-----------|-------------------|------------|-----|---------|
| VN100   | 1" Poly Dispensing Nozzle | 75      | 1"        | N/A               | 1"         | 1   | \$72.24 |



| REPLACEMENT PARTS VA150-VA200-VA200/150 |                              |     |         |
|-----------------------------------------|------------------------------|-----|---------|
| PART NO                                 | DESCRIPTION                  | QTY | PRICE   |
| V20151M                                 | Stem                         | 1   | \$8.62  |
| V20152                                  | Red Angle Handle             | 1   | \$8.62  |
| V20254                                  | Body                         | 1   | \$12.08 |
| V20255A*                                | Ball                         | 1   | \$11.81 |
| V20256                                  | 2" FPT End Plate             | 2   | \$12.58 |
| V20257                                  | 1½" End Plate                | 2   | \$12.58 |
| V20258A*                                | Ball Seat                    | 2   | \$9.59  |
| V20264*                                 | FKM (viton type) Body O-Ring | 2   | \$9.59  |
| V20159*                                 | Upper Stem Bushing           | 1   | \$3.06  |
| V20060*                                 | Thrust Washer                | 1   | \$2.11  |
| V20261                                  | 2" FP Angle End Flange       | 1   | \$26.04 |
| V20262                                  | 1½" FP Angle End Flange      | 1   | \$26.04 |
| V20163*                                 | FKM (viton type) Stem O-Ring | 1   | \$2.64  |
| V20166                                  | 1½" x 8" Nozzle Pipe         | 1   | \$6.66  |
| V25165                                  | 2" x 8" Nozzle Pipe          | 1   | \$7.09  |
| V20017                                  | ⅜" x 4½" SS Bolt             | 4   | \$1.72  |
| V20018                                  | ⅜" SS Lock Washer            | 4   | \$0.42  |
| V20019                                  | ⅜" 16 SS Hex Nut             | 4   | \$1.03  |
| V20020                                  | ⅜" x ½" Handle Bolt          | 1   | \$0.84  |
| V20021                                  | S.S. Handle Washer           | 1   | \$0.42  |
| V20200                                  | Repair Kit                   | 1   | \$41.44 |



| REPLACEMENT PARTS VA200FP |                              |     |         |
|---------------------------|------------------------------|-----|---------|
| PART NO                   | DESCRIPTION                  | QTY | PRICE   |
| V25151B                   | Stem                         | 1   | \$13.20 |
| V25152                    | Red Angle Handle             | 1   | \$13.18 |
| V25254                    | Body                         | 1   | \$16.39 |
| V25255A*                  | Ball                         | 1   | \$12.64 |
| V25256                    | 2" FPT End Plate             | 2   | \$18.48 |
| V25261                    | 2" FP Angle End Flange       | 1   | \$40.69 |
| V25258A*                  | Ball Seat                    | 2   | \$11.66 |
| V25264*                   | FKM (viton type) Body O-Ring | 2   | \$9.81  |
| V25160*                   | Upper Stem Bushing           | 1   | \$4.16  |
| V25060*                   | Thrust Washer                | 1   | \$2.11  |
| V25163*                   | FKM (viton type) Stem O-Ring | 1   | \$3.61  |
| V25017                    | ⅜" x 4½" SS Bolt             | 6   | \$2.36  |
| V20018                    | ⅜" SS Lock Washer            | 6   | \$0.42  |
| V20019                    | ⅜" 16 SS Hex Nut             | 6   | \$1.03  |
| V25020                    | ⅜" x ½" Handle Bolt          | 1   | \$1.72  |
| V25121                    | S.S. Handle Washer           | 1   | \$0.56  |
| V25165                    | 2" x 8" Nozzle Pipe          | 1   | \$7.09  |
| V25200                    | Repair Kit                   | 1   | \$54.54 |



| REPLACEMENT PARTS VA100 |                              |     |         |
|-------------------------|------------------------------|-----|---------|
| PART NO                 | DESCRIPTION                  | QTY | PRICE   |
| V07151A                 | Stem                         | 1   | \$3.76  |
| V10153A                 | Handle                       | 1   | \$4.30  |
| V07254                  | Body                         | 1   | \$8.17  |
| V07155*                 | Ball                         | 1   | \$6.47  |
| V07256                  | 1" End Plate                 | 2   | \$9.42  |
| V07258A*                | Ball Seat                    | 2   | \$4.78  |
| V07264*                 | FKM (viton type) Body O-Ring | 2   | \$4.78  |
| V07159*                 | Upper Stem Bushing           | 1   | \$2.29  |
| V07060*                 | Thrust Washer                | 1   | \$2.29  |
| V07163*                 | FKM (viton type) Stem O-Ring | 1   | \$1.46  |
| V07017                  | ¼" x 4½" SS Bolt             | 4   | \$1.12  |
| V07018                  | ¼" SS Lock Washer            | 4   | \$0.42  |
| V07019                  | ¼" SS Body Nut               | 4   | \$0.42  |
| V10020A                 | #10 x 1¼" SS Handle Bolt     | 1   | \$1.03  |
| V07021A                 | S.S. Handle Washer           | 1   | \$0.42  |
| V10161                  | 1" Poly Nozzle Pipe          | 1   | \$13.54 |
| V07200                  | Repair Kit                   | 1   | \$23.08 |

| REPLACEMENT PARTS UVA100FP |                           |     |         |
|----------------------------|---------------------------|-----|---------|
| PART NO                    | DESCRIPTION               | QTY | PRICE   |
| UV10150                    | 1" Union End Cap          | 1   | \$5.64  |
| UV10151                    | 1" Union Stem             | 1   | \$4.90  |
| UV10153                    | 1" Union Handle           | 1   | \$4.90  |
| UV10163                    | 1" Union Stem EPDM O-Ring | 2   | \$1.51  |
| UV10254                    | 1" Union Valve Body       | 1   | \$6.73  |
| UV10255                    | 1" Union Valve Seat       | 1   | \$6.73  |
| UV10256                    | 1" Union End Plate        | 1   | \$4.90  |
| UV10258                    | 1" Union Valve Seat       | 2   | \$3.97  |
| UV10264                    | 1" Union Body EPDM O-Ring | 1   | \$2.81  |
| V10161                     | 1" Poly Nozzle Pipe       | 1   | \$13.54 |



| REPLACEMENT PARTS VN100 |                                        |     |         |
|-------------------------|----------------------------------------|-----|---------|
| PART NO                 | DESCRIPTION                            | QTY | PRICE   |
| VN10253                 | 1" Valve Nozzle Handle                 | 1   | \$6.25  |
| VN10254                 | 1" Valve Nozzle Body                   | 1   | \$20.97 |
| VN10263*                | 1" Valve Nozzle Stem O-Ring            | 2   | \$1.12  |
| VN10264*                | 1" Valve Nozzle Body O-Ring            | 1   | \$1.94  |
| VN10265*                | Snap Ring for Valve Nozzle             | 1   | \$1.26  |
| VN10269                 | 1" Valve Nozzle Plug                   | 1   | \$2.11  |
| VN10270*                | 1" Valve Nozzle Poppet                 | 1   | \$2.11  |
| VN10271*                | 1" Valve Nozzle Gasket                 | 1   | \$5.42  |
| VN10273                 | 1" Valve Nozzle Pin                    | 1   | \$6.25  |
| VN10274*                | 1" Valve Nozzle Spring                 | 1   | \$6.52  |
| VN10200                 | Repair Kit (Includes asterick * items) | 1   | \$24.37 |

\*Valve repair kits contain items marked with asterisk :

- 1 Ball      2 Body O-Rings      1 Thrust Washer  
2 Ball Seats   1 Upper Stem Bushing   1 Stem O-Ring

# Single Union Polypropylene Ball Valve

## FEATURES

- Precision molded in glass reinforced polypropylene, for strength and chemical resistance.
- PTFE seats for smooth operation and proper sealing characteristics.
- EPDM O-rings to handle most fertilizers and many chemicals.
- Double O-rings in stem area for extra sealing protection.
- Interlocking body and end plate to allow easy thread connection when installing valves.
- Maximum operating pressure 100 P.S.I. at 70°F.



### SINGLE UNION POLY VALVES

| PART NO  | DESCRIPTION                  | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE   |
|----------|------------------------------|---------|-----------|-------------------|-----|---------|
| SUV050FP | 1/2" Full Port Union Valve   | 100     | 1/2"      | 1/2"              | 1   | \$19.88 |
| SUV075FP | 3/4" Full Port Union Valve   | 100     | 3/4"      | 3/4"              | 1   | \$19.88 |
| SUV100FP | 1" Full Port Union Valve     | 100     | 1"        | 1"                | 1   | \$24.84 |
| SUV125FP | 1 1/4" Full Port Union Valve | 100     | 1 1/4"    | 1 1/4"            | 1   | \$42.67 |
| SUV150FP | 1 1/2" Full Port Union Valve | 100     | 1 1/2"    | 1 1/2"            | 1   | \$42.39 |
| SUV200FP | 2" Full Port Union Valve     | 100     | 2"        | 2"                | 1   | \$53.80 |

# Spin Weld Polypropylene Ball Valve

## FEATURES

- One piece construction.
- Precision molded in durable polypropylene, for strength and chemical resistance.
- PTFE seats for smooth operation and proper sealing characteristics.
- Quality with economy.
- Maximum operating pressure 150 P.S.I. at 70°F.
- Handle closes in either direction.



### SPINWELD POLY VALVES

| PART NO  | DESCRIPTION                    | STEM O-RING | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE   |
|----------|--------------------------------|-------------|---------|-----------|-------------------|-----|---------|
| WV050FP  | 1/2" Poly Spinweld Valve       | EPDM        | 150     | 1/2"      | 1/2"              | 1   | \$17.96 |
| WV050FPB | 1/2" BSP Poly Spinweld Valve   | EPDM        | 150     | 1/2"      | 1/2"              | 1   | \$17.96 |
| WV075FP  | 3/4" Poly Spinweld Valve       | EPDM        | 150     | 3/4"      | 3/4"              | 1   | \$17.96 |
| WV075FPB | 3/4" BSP Poly Spinweld Valve   | EPDM        | 150     | 3/4"      | 3/4"              | 1   | \$17.96 |
| WV100FP  | 1" Poly Spinweld Valve         | EPDM        | 150     | 1"        | 1"                | 1   | \$22.46 |
| WV100FPB | 1" BSP Poly Spinweld Valve     | EPDM        | 150     | 1"        | 1"                | 1   | \$22.46 |
| WV125FP  | 1 1/4" Poly Spinweld Valve     | EPDM        | 150     | 1 1/4"    | 1 1/4"            | 1   | \$38.64 |
| WV125FPB | 1 1/4" BSP Poly Spinweld Valve | EPDM        | 150     | 1 1/4"    | 1 1/4"            | 1   | \$38.64 |
| WV150FP  | 1 1/2" Poly Spinweld Valve     | EPDM        | 150     | 1 1/2"    | 1 1/2"            | 1   | \$38.64 |
| WV150FPB | 1 1/2" BSP Poly Spinweld Valve | EPDM        | 150     | 1 1/2"    | 1 1/2"            | 1   | \$38.64 |
| WV200FP  | 2" Poly Spinweld Valve         | EPDM        | 150     | 2"        | 2"                | 1   | \$48.65 |
| WV200FPB | 2" BSP Poly Spinweld Valve     | EPDM        | 150     | 2"        | 2"                | 1   | \$48.65 |

### SPINWELD POLY VALVES

| PART NO    | DESCRIPTION                                 | STEM O-RING      | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE   |
|------------|---------------------------------------------|------------------|---------|-----------|-------------------|-----|---------|
| WSFMT200   | 2" Male Adapter x 2" Male NPT Standard Port | FKM (viton type) | 150     | 2"        | 1 1/2"            | 1   | \$53.07 |
| WSFMT200FP | 2" Male Adapter x 2" Male NPT Full Port     | FKM (viton type) | 150     | 2"        | 2"                | 1   | \$58.00 |



# Poly Air Actuated Shutoff Valves

## FEATURES

- Open position allows full, unobstructed flow, 50-60 GPM.
- Air pressure collapses the internal rubber sleeve to provide positive shut off.
- Standard EPDM rubber bladder seal, FKM (viton type) available.
- Female NPT Threads.
- Maximum air pressure 100 P.S.I.

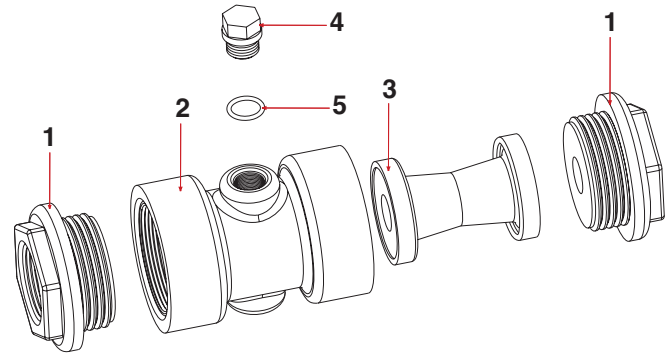


## POLY PINCH VALVES

| PART NO     | DESCRIPTION                               | GASKET           | MAX PSI | PIPE SIZE | PRESSURE DIFFERENCE | QTY | PRICE    |
|-------------|-------------------------------------------|------------------|---------|-----------|---------------------|-----|----------|
| PV075       | 3/4" x 3/4" Poly Pinch Valve              | EPDM             | 70      | 3/4"      | 15 to 20 PSI        | 1   | \$86.48  |
| PV075V      | 3/4" Poly Pinch Valve                     | FKM (viton type) | 70      | 3/4"      | 15 to 20 PSI        | 1   | \$140.65 |
| PV100       | 1" x 1" Poly Pinch Valve                  | EPDM             | 70      | 1"        | 15 to 20 PSI        | 1   | \$86.48  |
| PV100V      | 1" x 1" Poly Pinch Valve                  | FKM (viton type) | 70      | 1"        | 15 to 20 PSI        | 1   | \$140.65 |
| PV100-075   | 1" x 3/4" Poly Pinch Valve                | EPDM             | 70      | 1" x 3/4" | 15 to 20 PSI        | 1   | \$86.48  |
| PV100-075V  | 1" x 3/4" Poly Pinch Valve                | FKM (viton type) | 70      | 1" x 3/4" | 15 to 20 PSI        | 1   | \$140.65 |
| PV100-075B  | 1" x 3/4" Poly Pinch Valve Female Coupler | EPDM             | 70      | 1" x 3/4" | 15 to 20 PSI        | 1   | \$101.36 |
| PV100-075BV | 1" x 3/4" Female Coupler Poly Pinch Valve | FKM (viton type) | 70      | 1" x 3/4" | 15 to 20 PSI        | 1   | \$148.24 |

**Attention:** The polypropylene air actuated valve is normally an open valve, and has a maximum liquid pressure of 70 P.S.I.

The pressure differential (pressure it takes to close valve) of the valve is 15 to 20 P.S.I.



## REPLACEMENT PARTS PV075 - PV100 - PV100-075 - PV100-075B PV100V - PV100-075V - PV100-075BV

| ITEM | PART NO | DESCRIPTION                | QTY | PRICE   |
|------|---------|----------------------------|-----|---------|
| 2    | PV10254 | Body                       | 1   | \$41.18 |
| 4    | 12723   | 1/4" Drain Plug            | 1   | \$1.93  |
| 5    | 12724   | EPDM O-Ring for Drain Plug | 1   | \$0.42  |

## REPLACEMENT PARTS PV075

| ITEM | PART NO | DESCRIPTION              | QTY | PRICE   |
|------|---------|--------------------------|-----|---------|
| 1    | PV07257 | 3/4" End Plate           | 2   | \$13.49 |
| 3    | PV10265 | EPDM Rubber Bladder Seal | 1   | \$15.81 |

## REPLACEMENT PARTS PV075V

| ITEM | PART NO  | DESCRIPTION                          | QTY | PRICE   |
|------|----------|--------------------------------------|-----|---------|
| 1    | PV07257  | 3/4" End Plate                       | 2   | \$13.49 |
| 3    | PV10265V | FKM (viton type) Rubber Bladder Seal | 1   | \$49.93 |

## REPLACEMENT PARTS PV100 - PV100-075

| ITEM | PART NO | DESCRIPTION              | QTY | PRICE   |
|------|---------|--------------------------|-----|---------|
| 1    | PV07256 | 1" End Plate             | 2   | \$13.49 |
| 1    | PV07257 | 3/4" End Plate (1 only)  | 1   | \$13.49 |
| 3    | PV10265 | EPDM Rubber Bladder Seal | 1   | \$15.81 |

## REPLACEMENT PARTS PV100V - PV100-075V

| ITEM | PART NO  | DESCRIPTION                          | QTY | PRICE   |
|------|----------|--------------------------------------|-----|---------|
| 1    | PV07256  | 1" End Plate                         | 2   | \$13.49 |
| 1    | PV07257  | 3/4" End Plate (1 only)              | 1   | \$13.49 |
| 3    | PV10265V | FKM (viton type) Rubber Bladder Seal | 1   | \$49.93 |

## REPLACEMENT PARTS PV100-075B

| ITEM | PART NO  | DESCRIPTION                         | QTY | PRICE   |
|------|----------|-------------------------------------|-----|---------|
| 1    | PV07256  | 1" End Plate                        | 2   | \$13.49 |
| 1    | PV07257B | 3/4" Pinch Valve Female Coupler End | 1   | \$32.82 |
| 3    | PV10265  | EPDM Rubber Bladder Seal            | 1   | \$15.81 |

## REPLACEMENT PARTS PV100-075BV

| ITEM | PART NO  | DESCRIPTION                          | QTY | PRICE   |
|------|----------|--------------------------------------|-----|---------|
| 1    | PV07256  | 1" End Plate                         | 1   | \$13.49 |
| 1    | PV07257B | 3/4" Pinch Valve Female Coupler End  | 1   | \$32.82 |
| 3    | PV10265V | FKM (viton type) Rubber Bladder Seal | 1   | \$49.93 |



# Polypropylene Check Valve

## FEATURES

- One piece construction.
- 150 P.S.I. maximum.
- 1-2 P.S.I. spring.
- Glass reinforced polypropylene.
- 316 stainless steel springs.
- EPDM gasket.

### MINI CHECK VALVE

| PART NO | DESCRIPTION          | MAX PSI | PIPE SIZE | QTY | PRICE   |
|---------|----------------------|---------|-----------|-----|---------|
| CV100MT | 1" Male x Female NPT | 150     | 1"        | 1   | \$20.15 |

NEW!

### CHECK VALVE

| PART NO | DESCRIPTION              | MAX PSI | PIPE SIZE | QTY | PRICE   |
|---------|--------------------------|---------|-----------|-----|---------|
| CV300   | 3" Full Port Check Valve | 150     | 3"        | 1   | \$41.10 |

See flange clamps and gaskets on page 75.  
See page 72 for our manifold version.



# 316 Stainless Steel Two Piece Ball Valves

## FEATURES

- 316 stainless steel.
- Blow out proof stem.
- All valves 100% tested by air, underwater at 100 P.S.I. in open and closed positions.
- Latch locking handle performs in both open and closed positions.
- Mounting pad.
- PTFE seals and seats.
- All full port design.
- Valves rated at 1,000 P.S.I.

### 316 SS FULL PORT BALL VALVES

| PART NO | DESCRIPTION                    | HANDLE TYPE | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE      |
|---------|--------------------------------|-------------|---------|-----------|-------------------|-----|------------|
| VSS025  | 1/4" SS Full Port Ball Valve   | Straight    | 1000    | 1/4"      | 1/4"              | 1   | \$85.24    |
| VSS038  | 3/8" SS Full Port Ball Valve   | Straight    | 1000    | 3/8"      | 3/8"              | 1   | \$85.24    |
| VSS050  | 1/2" SS Full Port Ball Valve   | Straight    | 1000    | 1/2"      | 1/2"              | 1   | \$101.07   |
| VSS075  | 3/4" SS Full Port Ball Valve   | Straight    | 1000    | 3/4"      | 3/4"              | 1   | \$120.12   |
| VSS100  | 1" SS Full Port Ball Valve     | Straight    | 1000    | 1"        | 1"                | 1   | \$145.55   |
| VSS125  | 1 1/4" SS Full Port Ball Valve | Straight    | 1000    | 1 1/4"    | 1 1/4"            | 1   | \$209.81   |
| VSS150  | 1 1/2" SS Full Port Ball Valve | Straight    | 1000    | 1 1/2"    | 1 1/2"            | 1   | \$265.62   |
| VSS200  | 2" SS Full Port Ball Valve     | Straight    | 1000    | 2"        | 2"                | 1   | \$349.23   |
| VSS300  | 3" SS Full Port Ball Valve     | Straight    | 1000    | 3"        | 3"                | 1   | \$1,205.43 |



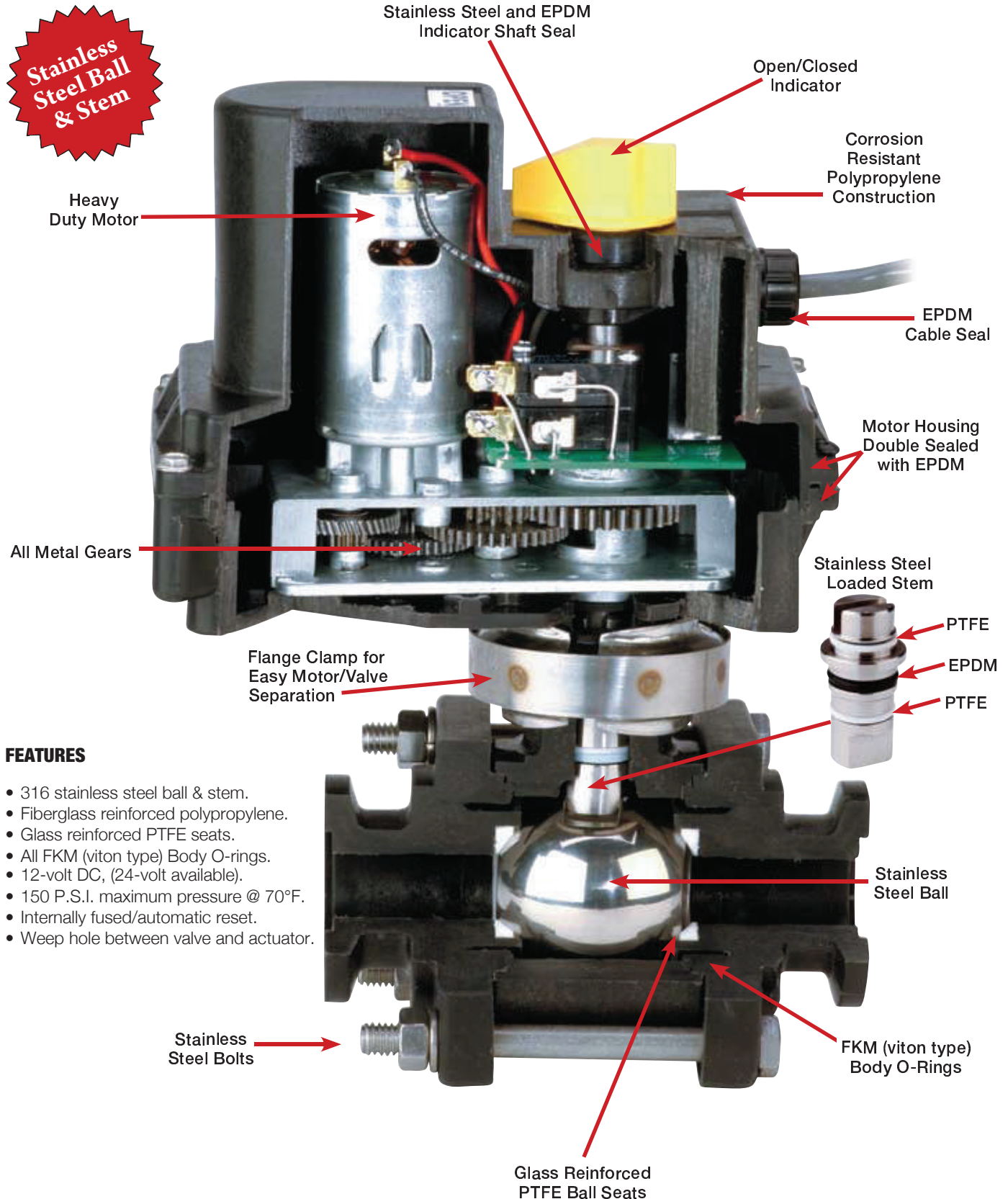
### REPLACEMENT PARTS HANDLES

| PART NO  | DESCRIPTION                        | QTY | PRICE   |
|----------|------------------------------------|-----|---------|
| VSS05153 | Handle for VSS025, VSS038 & VSS050 | 1   | \$14.31 |
| VSS07153 | Handle for VSS075                  | 1   | \$14.31 |
| VSS10153 | Handle for VSS100 & VSS125         | 1   | \$19.71 |
| VSS15153 | Handle for VSS150                  | 1   | \$22.89 |
| VSS20153 | Handle for VSS200                  | 1   | \$22.89 |
| VSS35153 | Handle for VSS300                  | 1   | \$49.30 |

### REPLACEMENT PARTS

| PART NO  | DESCRIPTION                                              | QTY | PRICE    |
|----------|----------------------------------------------------------|-----|----------|
| VSS02500 | 1/4" & 3/8" Repair Kit (Includes all PTFE seals & seats) | 1   | \$13.97  |
| VSS05200 | 1/2" Repair Kit (Includes all PTFE seals & seats)        | 1   | \$18.61  |
| VSS07200 | 3/4" Repair Kit (Includes all PTFE seals & seats)        | 1   | \$18.91  |
| VSS10200 | 1" Repair Kit (Includes all PTFE seals & seats)          | 1   | \$20.92  |
| VSS12500 | 1 1/4" Repair Kit (Includes all PTFE seals & seats)      | 1   | \$36.11  |
| VSS15200 | 1 1/2" Repair Kit (Includes all PTFE seals & seats)      | 1   | \$36.89  |
| VSS25200 | 2" Repair Kit (Includes all PTFE seals & seats)          | 1   | \$57.72  |
| VSS35200 | 3" Repair Kit (Includes all PTFE seals & seats)          | 1   | \$138.73 |





## FEATURES

- 316 stainless steel ball & stem.
- Fiberglass reinforced polypropylene.
- Glass reinforced PTFE seats.
- All FKM (viton type) Body O-rings.
- 12-volt DC, (24-volt available).
- 150 P.S.I. maximum pressure @ 70°F.
- Internally fused/automatic reset.
- Weep hole between valve and actuator.

# Electric Valves

## 3/4," 1," 1 1/4" Threaded

### FEATURES

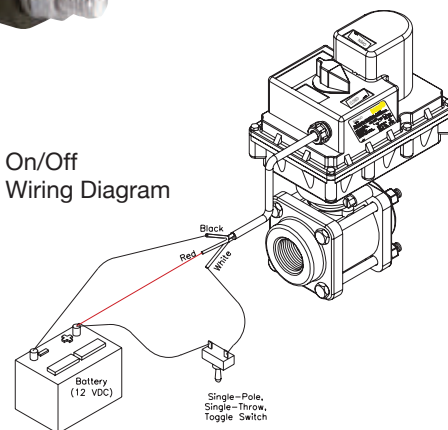
- 316 stainless steel ball & stem.
- Stainless steel hardware.
- Fiberglass reinforced polypropylene.
- Glass reinforced PTFE seats.
- FKM (viton type) or EPDM O-rings.
- 12-volt DC operated.
- 24-volt available in most models.
- 150 P.S.I. maximum pressure @ 70°F.
- Easily repairable.
- Open/closed indicator.



### 3/4 Second Response Time

| 3/4"-1 1/4" ON/OFF ELECTRIC VALVES |                             |         |           |                   |     |          |
|------------------------------------|-----------------------------|---------|-----------|-------------------|-----|----------|
| PART NO                            | DESCRIPTION                 | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
| EV075                              | 3/4" Electric Valve         | 150     | 3/4"      | 1"                | 1   | \$464.27 |
| EV100FP                            | 1" Full Port Electric Valve | 150     | 1"        | 1"                | 1   | \$464.27 |
| EV125                              | 1 1/4" Electric Valve       | 150     | 1 1/4"    | 1"                | 1   | \$464.27 |

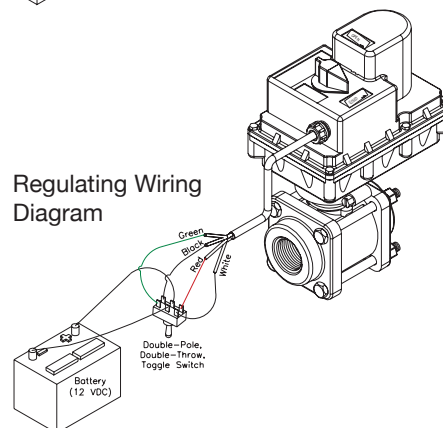
On/Off Wiring Diagram



### 4 Second Response Time

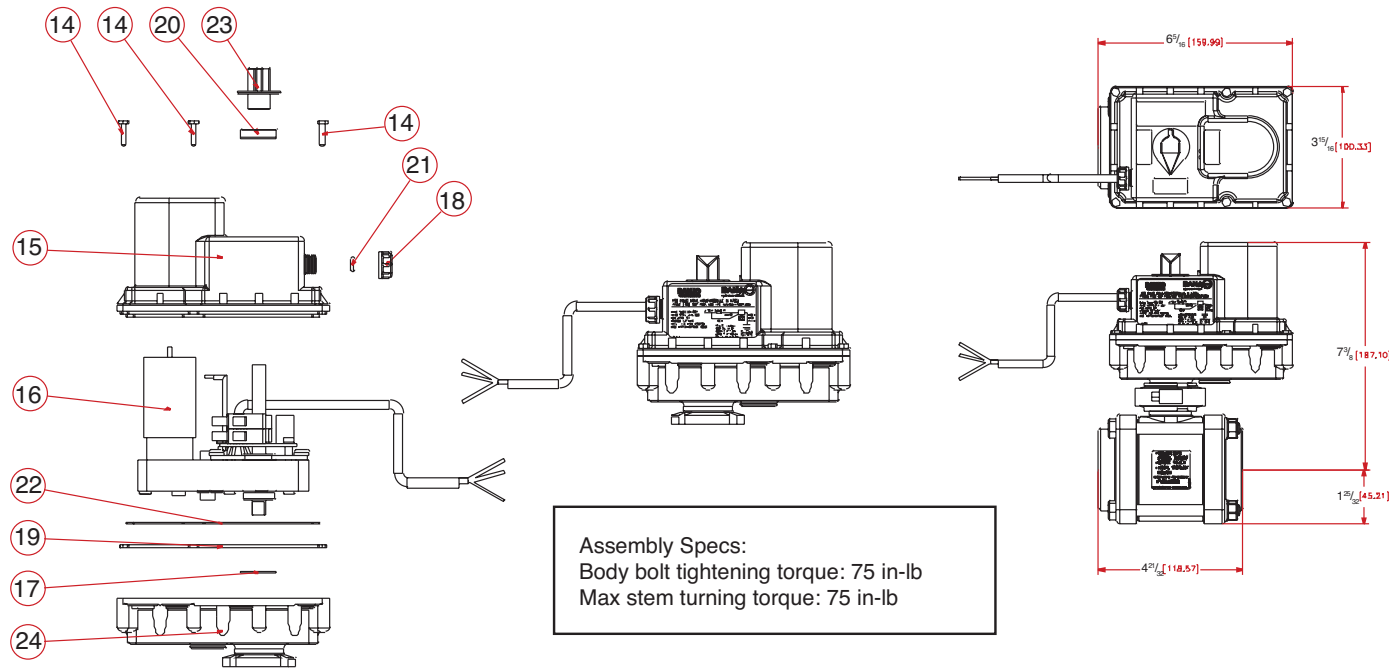
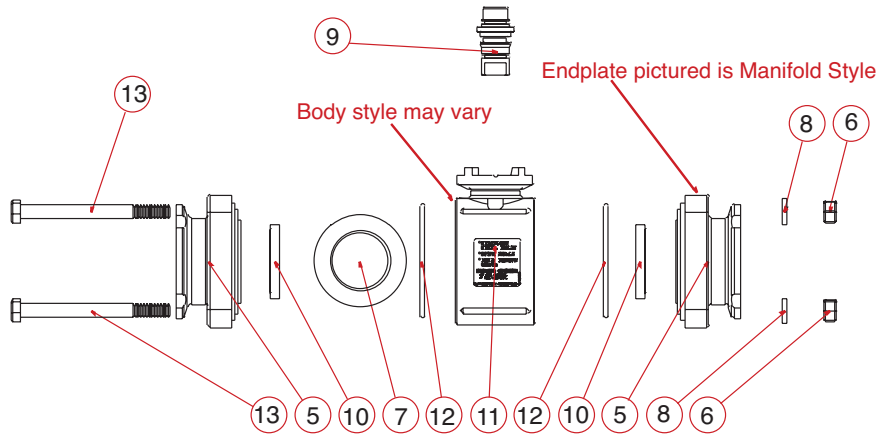
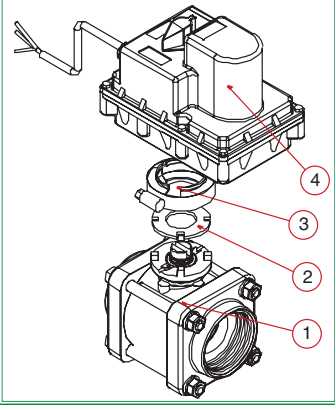
| 3/4"-1 1/4" REGULATING ELECTRIC VALVES |                             |         |           |                   |     |          |
|----------------------------------------|-----------------------------|---------|-----------|-------------------|-----|----------|
| PART NO                                | DESCRIPTION                 | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
| EVR075                                 | 3/4" Electric Valve         | 150     | 3/4"      | 1"                | 1   | \$642.76 |
| EVR100FP                               | 1" Full Port Electric Valve | 150     | 1"        | 1"                | 1   | \$642.76 |
| EVR125                                 | 1 1/4" Electric Valve       | 150     | 1 1/4"    | 1"                | 1   | \$642.76 |

Regulating Wiring Diagram



**Note: 2 wire regulating and other response times available. Contact our Sales Team for part number and availability of valves.**



**Fast repair replacement options.**
**REPLACEMENT PARTS**  
**EV075-EVR075-EV100FP-EVR100FP-EV125-EVR125**

| ITEM | PART NO    | DESCRIPTION                     | QTY | PRICE    |
|------|------------|---------------------------------|-----|----------|
| 1    | EV075XR1   | ¾" Electric Valve Sub Assembly  | 1   | \$136.75 |
| 1    | EV100XR1   | 1" Electric Valve Sub Assembly  | 1   | \$136.75 |
| 1    | EV125XR1   | 1¼" Electric Valve Sub Assembly | 1   | \$136.75 |
| 2    | MVE004     | Electric Valve Flange Gasket    | 1   | \$0.40   |
| 3    | FC100      | 1" Flange Clamp                 | 1   | \$9.90   |
| 4    | EV3100     | ¾" Second 3 Wire Motor Assembly | 1   | \$305.18 |
| 4    | EVR3100    | Regulating 4 Wire, 4 Second     | 1   | \$305.18 |
| 4    | EVR3102    | Regulating 2 Wire, 8 Second     | 1   | \$305.18 |
| 5    | VE07357    | ¾" Threaded End Plate           | 2   | \$21.60  |
| 5    | VE10257A   | 1" Threaded End Plate           | 2   | \$14.47  |
| 5    | VE10256A   | 1¼" Threaded End Plate          | 2   | \$14.47  |
| 6    | V10119     | 5/16" SS Body Nut               | 4   | \$0.56   |
| 7    | VE10155SSH | 1" 316 SS Hollow Ball           | 1   | \$27.11  |
| 8    | V10118     | 5/16" SS Lock Washer            | 4   | \$0.42   |
| 9    | MEV10151   | 1" SS Stem w/Seals              | 1   | \$61.27  |
| 10   | VE10258A   | 1" Electric Ball Seat           | 2   | \$9.93   |
| 11   | MEV10254A  | 1" Body                         | 1   | \$14.33  |

**REPLACEMENT PARTS**  
**EV075-EVR075-EV100FP-EVR100FP-EV125-EVR125**

| ITEM | PART NO   | DESCRIPTION                              | QTY | PRICE    |
|------|-----------|------------------------------------------|-----|----------|
| 12   | VE10264   | 1" FKM (viton type) Body O-Ring          | 2   | \$6.05   |
| 13   | V10117    | 5/16" x 3 1/2" SS Body Bolt              | 4   | \$1.38   |
| 14   | VE15220   | Housing Screw                            | 6   | \$0.28   |
| 15   | MEV10102A | Housing Top for Small Motor              | 1   | \$40.31  |
| 16   | VE4984    | ¾" Second 3 Wire On/Off Motor            | 1   | \$323.91 |
| 16   | VE4983    | 4 Second 4 Wire HT On/Off Motor          | 1   | \$395.88 |
| 16   | VE4985    | 8 Second 2 Wire HT Regulating Motor      | 1   | \$323.91 |
| 17   | MVE105    | Motor Shaft Gasket                       | 1   | \$0.40   |
| 18   | MVE002    | Heyco ¼" Threaded Bushing                | 1   | \$0.82   |
| 19   | MVE104    | Outer Housing Gasket                     | 1   | \$3.02   |
| 20   | VE109E    | Indicator Seal                           | 1   | \$4.58   |
| 21   | MVE007    | 3mm x 5mm FKM (viton type) O-Ring        | 1   | \$1.03   |
| 22   | MVE106    | Inner Housing Gasket                     | 1   | \$2.67   |
| 23   | VE107A    | Flow Indicator                           | 1   | \$7.20   |
| 24   | MEV10101  | Housing Bottom for Small Motor           | 1   | \$55.42  |
| 25   | EV10210   | Repair Kit (Includes items 2, 9, 10, 12) | 1   | \$76.94  |



# Electric Valves 1½," 2" Threaded

## FEATURES

- 316 stainless steel ball & stem.
- Stainless steel hardware.
- Fiberglass reinforced polypropylene.
- Glass reinforced PTFE seats.
- FKM (viton type) or EPDM O-rings.
- 12-volt DC operated.
- 24-volt available in most models.
- 150 P.S.I. maximum pressure @ 70°F.
- Easily repairable.
- Open/closed indicator.



## ON/OFF Electric Valves - 1¼ Second Response Time

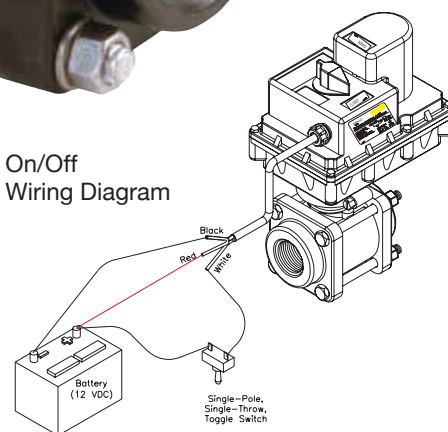
| 1½"-2" ON/OFF ELECTRIC VALVES |                    |         |           |                   |     |          |
|-------------------------------|--------------------|---------|-----------|-------------------|-----|----------|
| PART NO                       | DESCRIPTION        | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
| EV150                         | 1½" Electric Valve | 150     | 1½"       | 1½"               | 1   | \$680.57 |
| EV200                         | 2" Electric Valve  | 150     | 2"        | 1½"               | 1   | \$680.57 |

## REGULATING Electric Valves - 4 Second Response Time

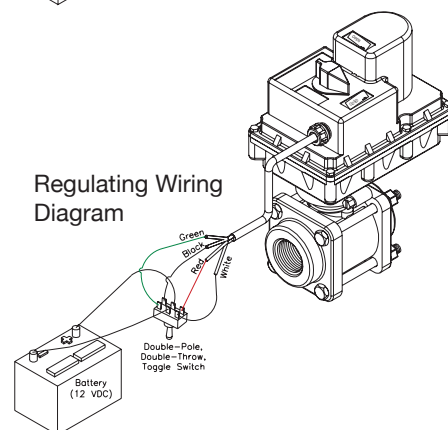
| 1½"-2" REGULATING ELECTRIC VALVES |                    |         |           |                   |     |          |
|-----------------------------------|--------------------|---------|-----------|-------------------|-----|----------|
| PART NO                           | DESCRIPTION        | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
| EVR150                            | 1½" Electric Valve | 150     | 1½"       | 1½"               | 1   | \$809.11 |
| EVR200                            | 2" Electric Valve  | 150     | 2"        | 1½"               | 1   | \$809.11 |

**Note: 2 wire regulating and other response times available. Contact our Sales Team for part number and availability of valves.**

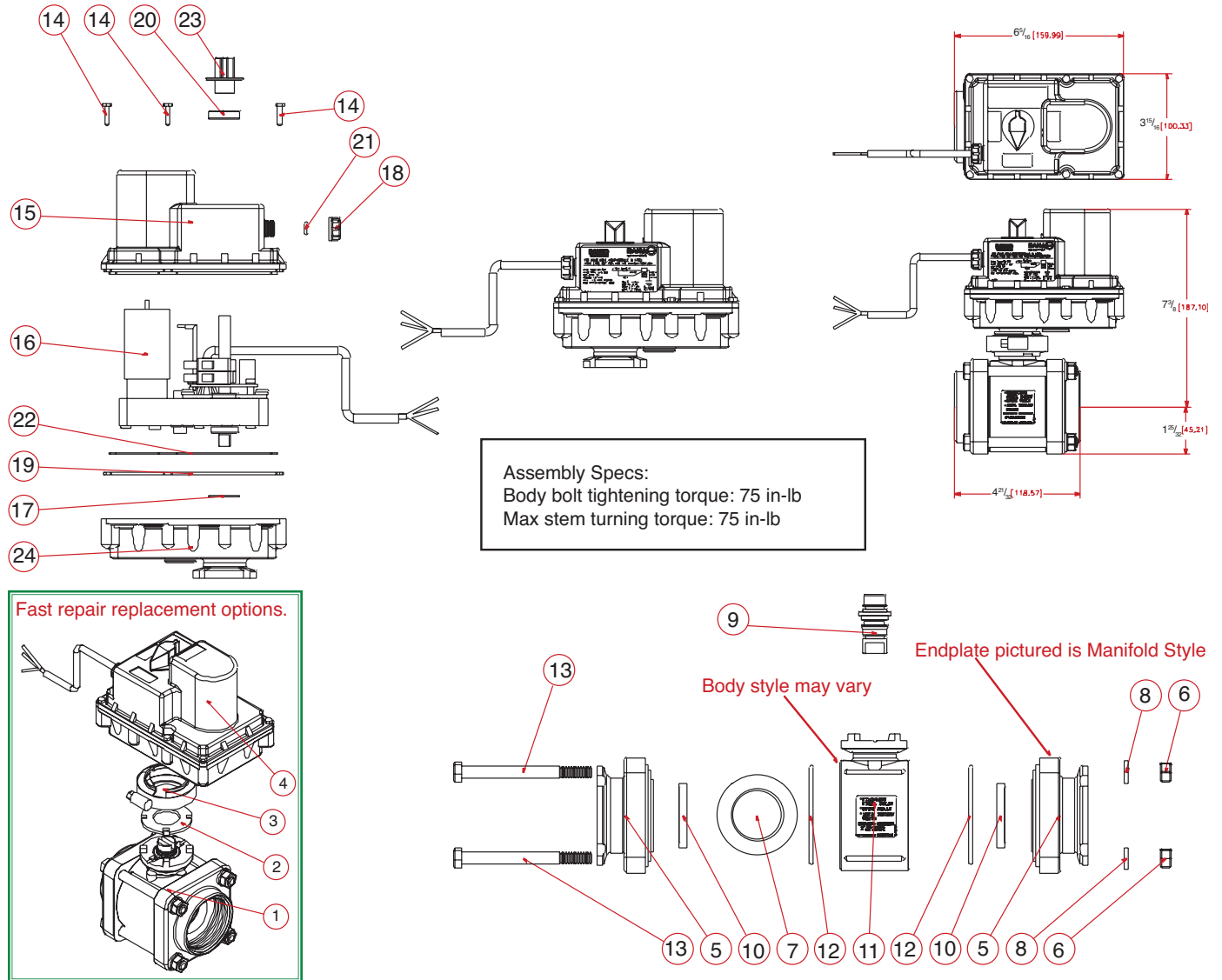
On/Off Wiring Diagram



Regulating Wiring Diagram





**REPLACEMENT PARTS EV150-EV200-EVR150-EVR200**

| ITEM | PART NO    | DESCRIPTION                               | QTY | PRICE    |
|------|------------|-------------------------------------------|-----|----------|
| 1    | EV150XR1   | 1½" Full Port Electric Valve Sub Assembly | 1   | \$251.92 |
| 1    | EV200XR1   | 2" Electric Valve Sub Assembly            | 1   | \$251.92 |
| 2    | MVE004     | Electric Valve Flange Gasket              | 1   | \$0.40   |
| 3    | FC100      | 1" Flange Clamp                           | 1   | \$9.90   |
| 4    | EV4100     | 1¼ Second 3 Wire Motor Assembly           | 1   | \$417.90 |
| 4    | EVR4100    | Regulating 4 Wire, 4 Second               | 1   | \$313.43 |
| 4    | EVR4102    | Regulating 2 Wire, 6 Second               | 1   | \$313.43 |
| 5    | VE20257    | 1½" Threaded End Plate                    | 2   | \$13.03  |
| 5    | VE20256A   | 2" Threaded End Plate                     | 2   | \$13.03  |
| 6    | V20019     | ¾" 16 SS Hex Nut                          | 4   | \$1.03   |
| 7    | VE20255SSH | 2" 316 SS Hollow Ball                     | 1   | \$52.54  |
| 8    | V20018     | ¾" SS Lock Washer                         | 4   | \$0.42   |
| 9    | MEV10151   | 1" SS Stem w/Seals                        | 1   | \$61.27  |
| 10   | VE20258    | 1½" & 2" Electric Ball Seat               | 2   | \$10.43  |
| 11   | MEV20254A  | 1½" & 2" Body                             | 1   | \$17.22  |
| 12   | VE20264    | 2" FKM (viton type) Body O-Ring           | 2   | \$6.03   |

**REPLACEMENT PARTS EV150-EV200-EVR150-EVR200**

| ITEM | PART NO  | DESCRIPTION                              | QTY | PRICE    |
|------|----------|------------------------------------------|-----|----------|
| 13   | V20017   | ¾" x 4" SS Body Bolt                     | 4   | \$1.72   |
| 14   | VE15220  | Housing Screw                            | 6   | \$0.28   |
| 15   | MVE25102 | Housing Top for Large Motor              | 1   | \$40.31  |
| 16   | VE4987   | 1¼ Second Hi Torque On/Off Motor         | 1   | \$395.88 |
| 16   | VE4988   | 4 Second 12 Volt Wire High Torque Motor  | 1   | \$384.33 |
| 16   | VE49892  | 6 Second 12 Volt Wire High Torque Motor  | 1   | \$384.33 |
| 17   | MVE107   | Motor Shaft Gasket                       | 1   | \$0.40   |
| 18   | MVE002   | Heyco ¼" Threaded Bushing                | 1   | \$0.82   |
| 19   | MVE104   | Outer Housing Gasket                     | 1   | \$3.02   |
| 20   | VE109E   | Indicator Seal                           | 1   | \$4.58   |
| 21   | MVE007   | 3mm x 5mm FKM (viton type) O-Ring        | 1   | \$1.03   |
| 22   | MVE106   | Inner Housing Gasket                     | 1   | \$2.67   |
| 23   | VE107A   | Flow Indicator                           | 1   | \$7.20   |
| 24   | MEV25101 | Housing Bottom for Large Motor           | 1   | \$55.42  |
| 25   | EV20210  | Repair Kit (Includes items 2, 9, 10, 12) | 1   | \$86.40  |

# Electric Valves 2" Full Port Threaded

## FEATURES

- 316 stainless steel ball & stem.
- Stainless steel hardware.
- Fiberglass reinforced polypropylene.
- Glass reinforced PTFE seats.
- FKM (viton type) or EPDM O-rings.
- 12-volt DC operated.
- 24-volt available in most models.
- 150 P.S.I. maximum pressure @ 70°F.
- Easily repairable.
- Open/closed indicator.

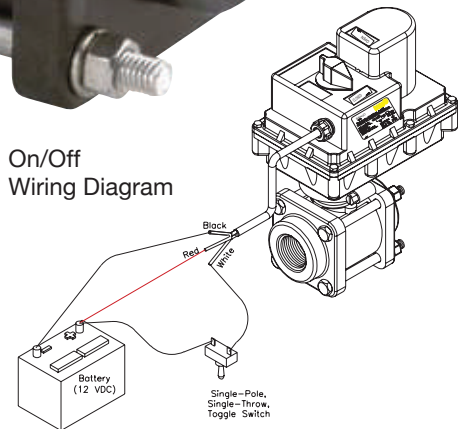


## ON/OFF Electric Valves - 1 1/4 Second Response Time

### 2" FULL PORT ON/OFF ELECTRIC VALVES

| PART NO | DESCRIPTION                 | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
|---------|-----------------------------|---------|-----------|-------------------|-----|----------|
| EV204FP | 2" Full Port Electric Valve | 150     | 2"        | 2"                | 1   | \$718.37 |

On/Off Wiring Diagram

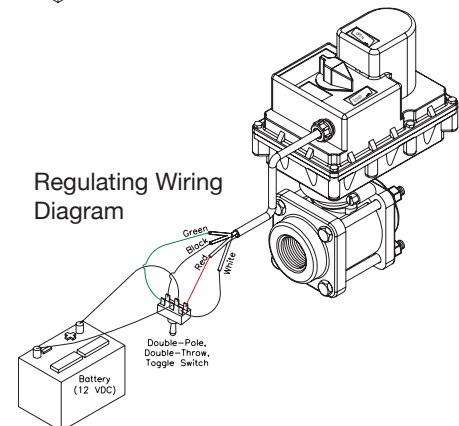


## REGULATING Electric Valves - 4 Second Response Time

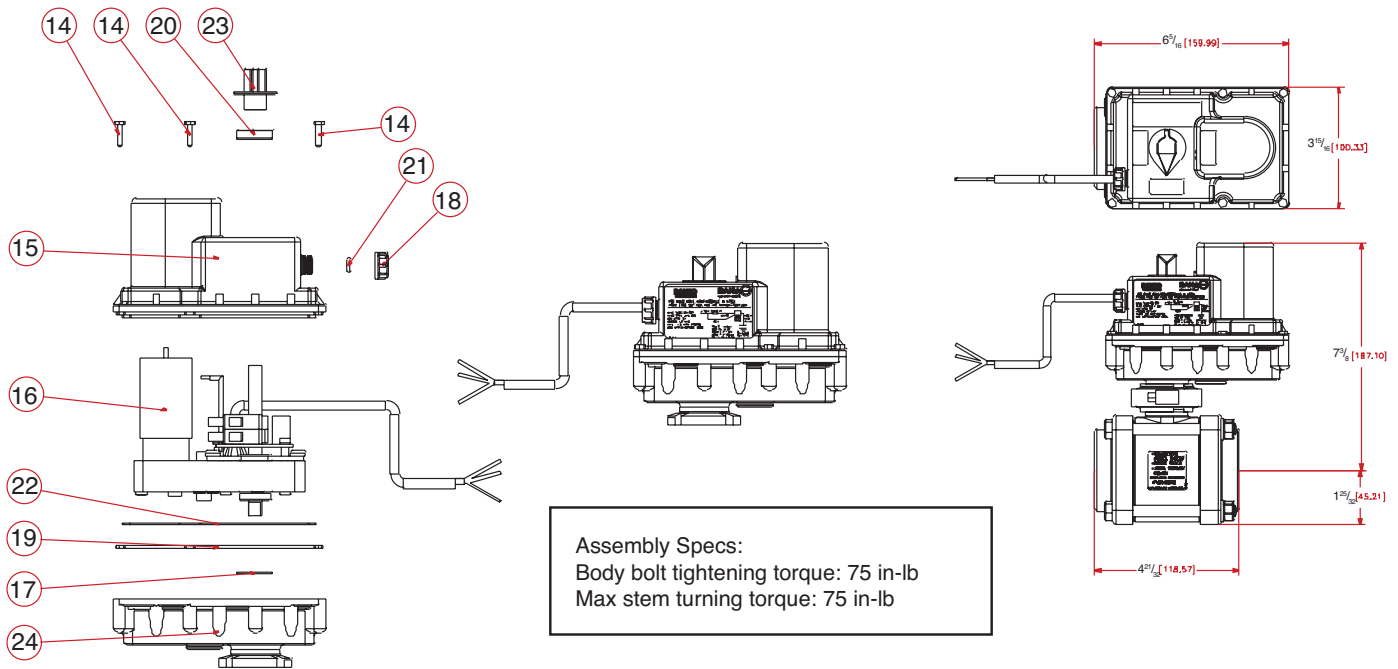
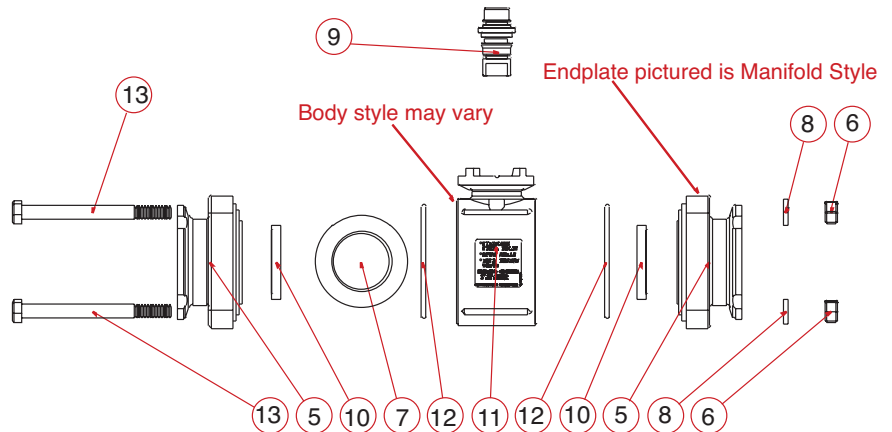
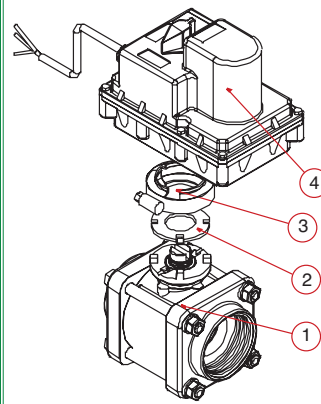
### 2" FULL PORT REGULATING ELECTRIC VALVES

| PART NO  | DESCRIPTION                 | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
|----------|-----------------------------|---------|-----------|-------------------|-----|----------|
| EVR204FP | 2" Full Port Electric Valve | 150     | 2"        | 2"                | 1   | \$854.47 |

Regulating Wiring Diagram



**Note: 2 wire regulating and other response times available.  
Contact our Sales Team for part number and availability of valves.**

**Fast repair replacement options.****REPLACEMENT PARTS EV204FP-EVR204FP**

| ITEM | PART NO    | DESCRIPTION                              | QTY | PRICE    |
|------|------------|------------------------------------------|-----|----------|
| 1    | EV204XR1   | 2" Full Port Electric Valve Sub Assembly | 1   | \$307.32 |
| 2    | MVE004     | Electric Valve Flange Gasket             | 1   | \$0.40   |
| 3    | FC100      | 1" Flange Clamp                          | 1   | \$9.90   |
| 4    | EV4100     | 1 1/4" Second 3 Wire Motor Assembly      | 1   | \$417.90 |
| 4    | EVR4100    | Regulating 4 Wire, 4 Second              | 1   | \$313.43 |
| 4    | EVR4102    | Regulating 2 Wire, 6 Second              | 1   | \$313.43 |
| 5    | VE25356A   | 2" Full Port Threaded End Plate          | 2   | \$19.15  |
| 6    | V20019     | 3/8" 16 SS Hex Nut                       | 4   | \$1.03   |
| 7    | VE25255SSH | 2" 316 SS Hollow Ball                    | 1   | \$53.12  |
| 8    | V20018     | 3/8" SS Lock Washer                      | 4   | \$0.42   |
| 9    | MEV25151   | 1" SS Stem w/Seals                       | 1   | \$68.19  |
| 10   | VE25258A   | 1 1/2" & 2" Electric Ball Seat           | 2   | \$10.43  |
| 11   | MEV25254A  | 1 1/2" & 2" Body                         | 1   | \$20.24  |
| 12   | V25264     | 2" FKM (viton type) Body O-Ring          | 2   | \$9.81   |

**REPLACEMENT PARTS EV204FP-EVR204FP**

| ITEM | PART NO  | DESCRIPTION                              | QTY | PRICE    |
|------|----------|------------------------------------------|-----|----------|
| 13   | V25017   | 3/8" x 4" SS Body Bolt                   | 4   | \$2.36   |
| 14   | VE15220  | Housing Screw                            | 6   | \$0.28   |
| 15   | MVE25102 | Housing Top for Large Motor              | 1   | \$40.31  |
| 16   | VE4987   | 1 1/4" Second Hi Torque On/Off Motor     | 1   | \$395.88 |
| 16   | VE4988   | 4 Second 12 Volt Wire High Torque Motor  | 1   | \$384.33 |
| 17   | MVE107   | Motor Shaft Gasket                       | 1   | \$0.40   |
| 18   | MVE002   | Heyco 1/4" Threaded Bushing              | 1   | \$0.82   |
| 19   | MVE104   | Outer Housing Gasket                     | 1   | \$3.02   |
| 20   | VE109E   | Indicator Seal                           | 1   | \$4.58   |
| 21   | MVE007   | 3mm x 5mm FKM (viton type) O-Ring        | 1   | \$1.03   |
| 22   | MVE106   | Inner Housing Gasket                     | 1   | \$2.67   |
| 23   | VE107A   | Flow Indicator                           | 1   | \$7.20   |
| 24   | MEV25101 | Housing Bottom for Large Motor           | 1   | \$55.42  |
| 25   | EV25210  | Repair Kit (Includes items 2, 9, 10, 12) | 1   | \$98.56  |

# Electric Valves 3" Full Port Threaded

## FEATURES

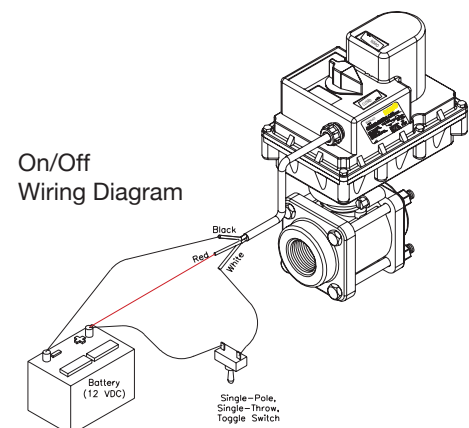
- Stainless steel hardware.
- Fiberglass reinforced polypropylene.
- Glass reinforced PTFE seats.
- FKM (viton type) or EPDM O-rings.
- 12-volt DC operated.
- 100 P.S.I. maximum pressure @ 70°F.

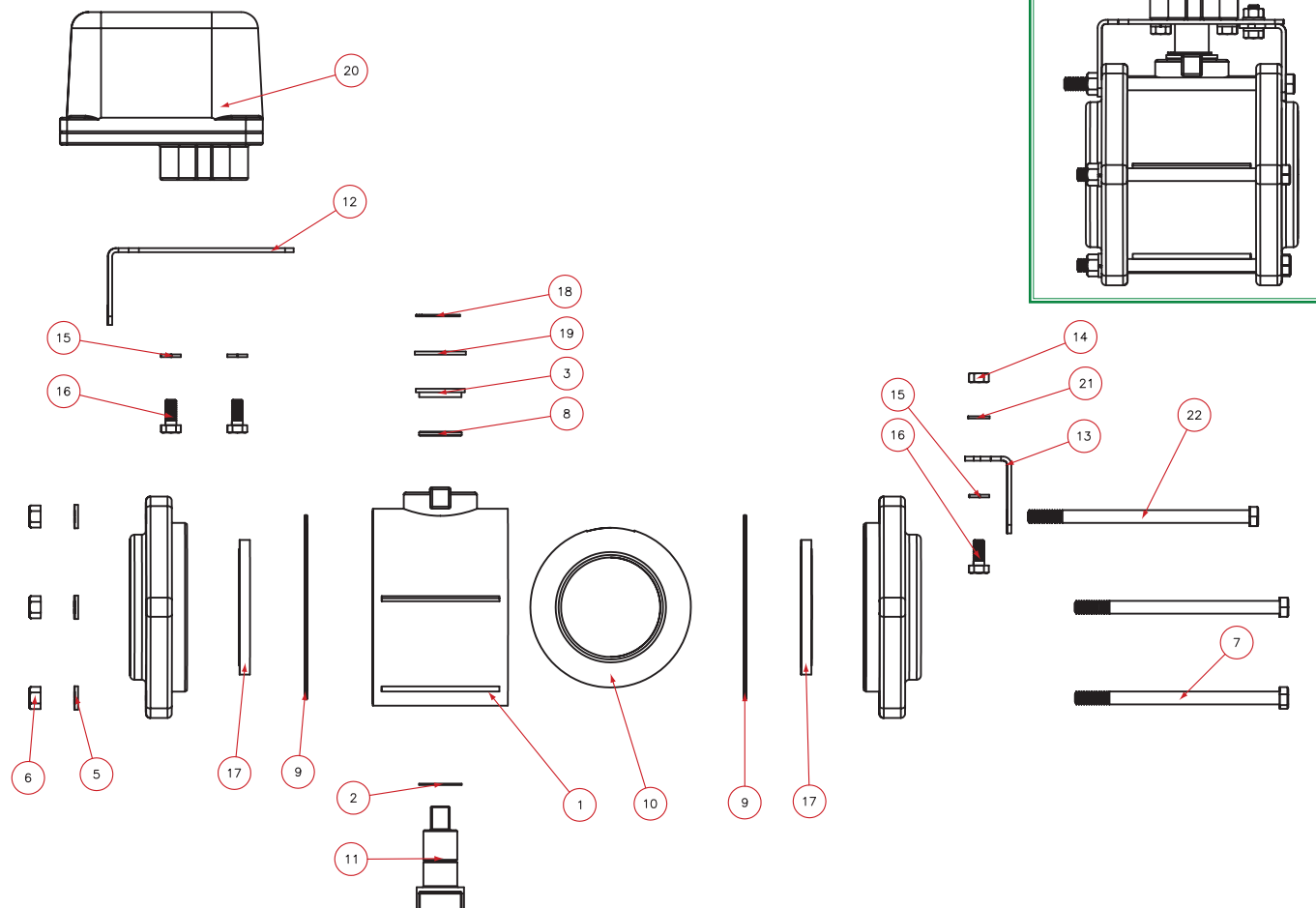


## ON/OFF Electric Valves - 3 Second Response Time 3 Wire

| 3" FULL PORT ON/OFF ELECTRIC VALVES |                             |         |           |                   |     |            |
|-------------------------------------|-----------------------------|---------|-----------|-------------------|-----|------------|
| PART NO                             | DESCRIPTION                 | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE      |
| EV300FP                             | 3" Full Port Electric Valve | 100     | 3"        | 3"                | 1   | \$1,958.86 |

**Note:** 4 wire regulating & 110 Volt AC, 9 Seconds response times available. Contact our sales team for part number and availability of valves.



**REPLACEMENT PARTS EV00FP**

| ITEM | PART NO   | DESCRIPTION                     | QTY | PRICE   |
|------|-----------|---------------------------------|-----|---------|
| 1    | V35254    | 3" Body                         | 1   | \$33.67 |
| 2    | V25060    | Stem Shim                       | 1   | \$2.11  |
| 3    | V25160    | Upper Stem Bushing              | 1   | \$4.16  |
| 4    | V35264    | 3" Threaded End Plate           | 2   | \$47.93 |
| 5    | V20018    | 3/8" SS Lock Washer             | 6   | \$0.42  |
| 6    | V20019    | 3/8" 16 SS Hex Nut              | 6   | \$1.03  |
| 7    | V35017    | 3/8" SS Bolt                    | 4   | \$4.87  |
| 8    | V25163    | Stem O-Ring                     | 1   | \$3.61  |
| 9    | V35265    | 3" FKM (viton type) Body O-Ring | 2   | \$13.76 |
| 10   | V35255A   | 3" Electric Ball                | 1   | \$36.81 |
| 11   | VE30151SS | SS Stem w/Out Seals             | 1   | \$58.77 |

**REPLACEMENT PARTS EV300FP**

| ITEM | PART NO  | DESCRIPTION            | QTY | PRICE    |
|------|----------|------------------------|-----|----------|
| 12   | VE35188  | Actuator Bracket-Large | 1   | \$104.66 |
| 13   | VE35189  | Actuator Bracket-Small | 1   | \$90.67  |
| 14   | V10119   | 5/16" Hex Nut          | 2   | \$0.56   |
| 15   | V10118   | 5/16" Lock Washer      | 6   | \$0.42   |
| 16   | 17019    | Hex Bolt               | 6   | \$1.17   |
| 17   | VE35258A | Ball Seat              | 2   | \$20.50  |
| 18   | VE30022  | 1" Snap Ring           | 1   | \$7.56   |
| 19   | VE30121  | Stem Washer            | 1   | \$6.99   |
| 20   | VE5630   | 3 Sec, 12VDC Motor     | 1   | \$805.93 |
| 21   | VE30021  | Washer                 | 2   | \$0.56   |
| 22   | V35018   | 3/8" SS Bolt           | 2   | \$10.00  |



# 3-Way Electric Valves

## 3/4," 1," 1 1/4" Threaded w/Flanged Inlet

### FEATURES

- 316 stainless steel ball & stem.
- Stainless steel hardware.
- Fiberglass reinforced polypropylene.
- Glass reinforced PTFE seats.
- FKM (viton type) or EPDM O-rings.
- 24-volt available in most models.
- 12-volt DC operated.
- 150 P.S.I. maximum pressure @ 70°F.
- Easily repairable.
- Open/closed indicator.

Don't forget the manifold connections for inlets on pages 72-75.



#### Attention:

3-Way regulating valves are not shown, but are available. Standard 3-Way valves use the On/Off wiring diagram.



BOTTOM LOAD



SIDE LOAD

### 3/4 Second Response Time

#### 3/4"-1 1/4" BOTTOM LOAD ON/OFF ELECTRIC VALVES

| PART NO | DESCRIPTION           | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
|---------|-----------------------|---------|-----------|-------------------|-----|----------|
| EV075BL | 3/4" Electric Valve   | 150     | 3/4"      | 1"                | 1   | \$521.75 |
| EV100BL | 1" Electric Valve     | 150     | 1"        | 1"                | 1   | \$521.75 |
| EV125BL | 1 1/4" Electric Valve | 150     | 1 1/4"    | 1"                | 1   | \$521.75 |

#### BOTTOM LOAD:

Directional flow right or left.

Valve flow cannot be turned off.

### 3/4 Second Response Time

#### 3/4"-1 1/4" SIDE LOAD REGULATING ELECTRIC VALVES

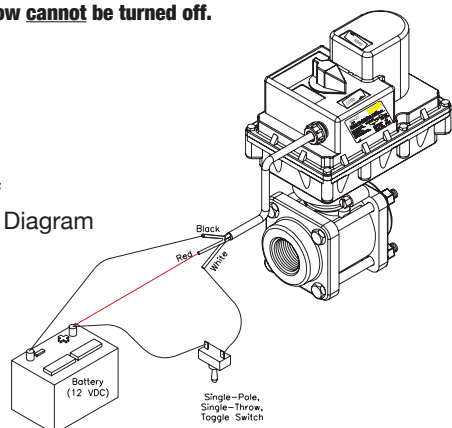
| PART NO | DESCRIPTION           | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
|---------|-----------------------|---------|-----------|-------------------|-----|----------|
| EV075SL | 3/4" Electric Valve   | 150     | 3/4"      | 1"                | 1   | \$521.75 |
| EV100SL | 1" Electric Valve     | 150     | 1"        | 1"                | 1   | \$521.75 |
| EV125SL | 1 1/4" Electric Valve | 150     | 1 1/4"    | 1"                | 1   | \$521.75 |

#### SIDE LOAD:

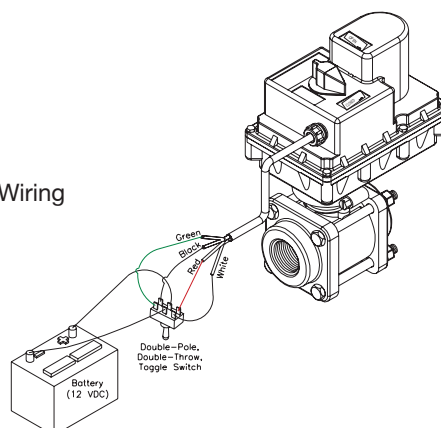
Directional flow right or left.

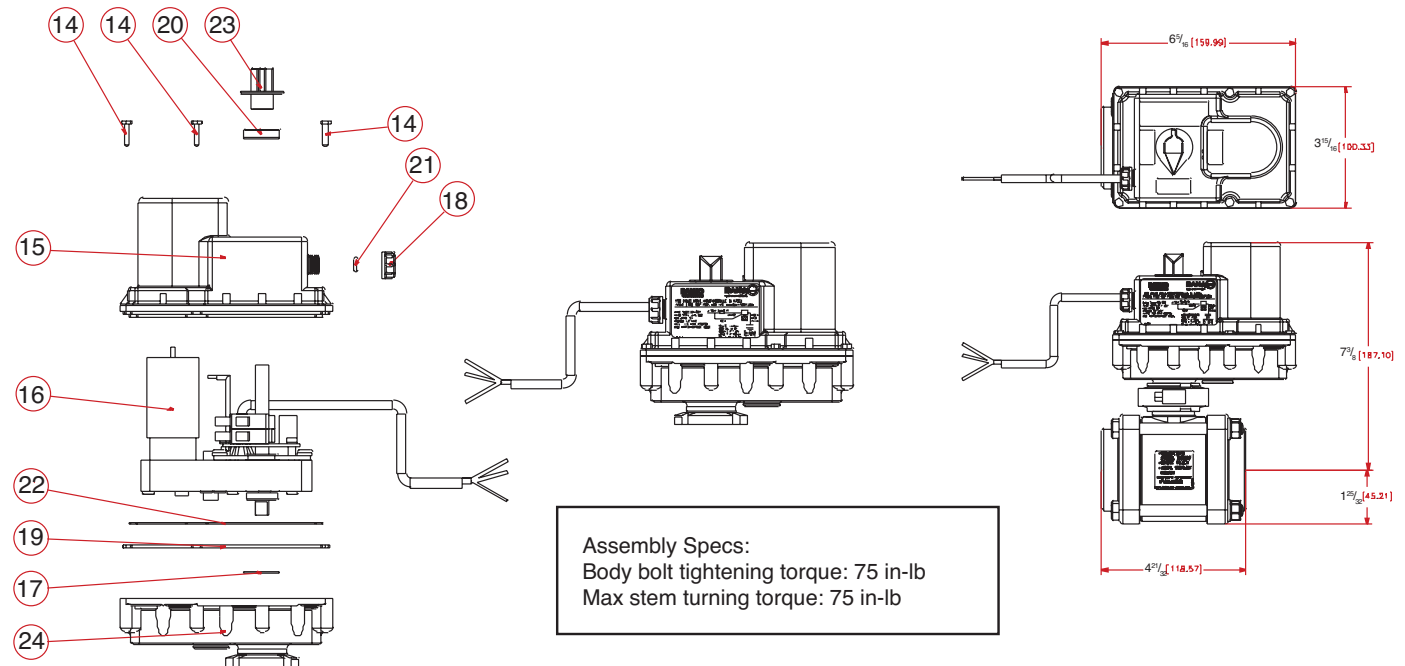
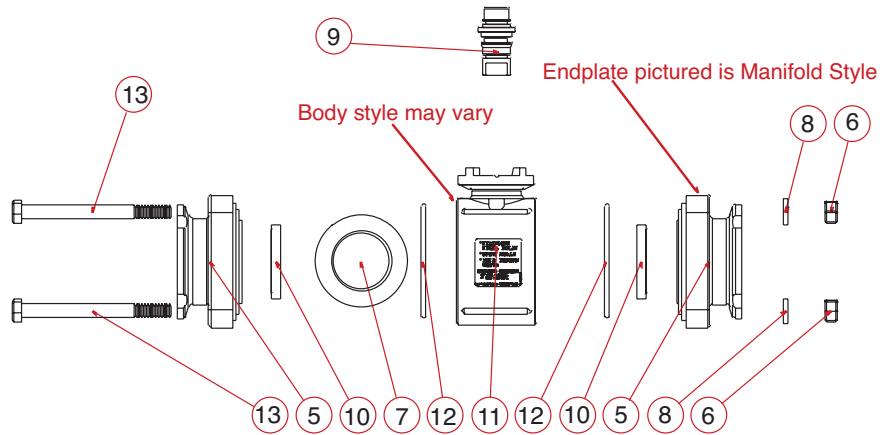
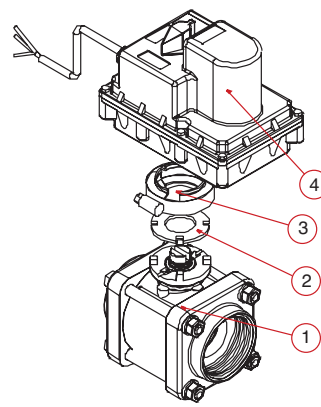
Valve flow cannot be turned off.

On/Off  
Wiring Diagram



Regulating Wiring  
Diagram



**Fast repair replacement options.**
**REPLACEMENT PARTS**  
**EV075SL-EV075BL-EV100SL-EV100BL-EV125SL-EV125BL**

| ITEM | PART NO    | DESCRIPTION                        | QTY | PRICE    |
|------|------------|------------------------------------|-----|----------|
| 1    | EV075SLXR1 | 3/4" Electric Valve Sub Assembly   | 1   | \$194.33 |
| 1    | EV100SLXR1 | 1" Electric Valve Sub Assembly     | 1   | \$194.33 |
| 1    | EV125SLXR1 | 1 1/4" Electric Valve Sub Assembly | 1   | \$194.33 |
| 1    | EV075BLXR1 | 3/4" Electric Valve Sub Assembly   | 1   | \$194.33 |
| 1    | EV100BLXR1 | 1" Electric Valve Sub Assembly     | 1   | \$194.33 |
| 1    | EV125BLXR1 | 1 1/4" Electric Valve Sub Assembly | 1   | \$194.33 |
| 2    | MVE004     | Electric Valve Flange Gasket       | 1   | \$0.40   |
| 3    | FC100      | 1" Flange Clamp                    | 1   | \$9.90   |
| 4    | EV3100     | 3/4" Second 3 Wire Motor Assembly  | 1   | \$305.18 |
| 4    | EVR3100    | Regulating 4 Wire, 4 Second        | 1   | \$305.18 |
| 5    | VE07357    | 3/4" Threaded End Plate            | 2   | \$21.60  |
| 5    | VE10257A   | 1" Threaded End Plate              | 2   | \$14.47  |
| 5    | VE10256A   | 1 1/4" Threaded End Plate          | 2   | \$14.47  |
| 6    | V10119     | 5/16" SS Body Nut                  | 4   | \$0.56   |
| 7    | VE10355    | 1" 316 SS Hollow Ball              | 1   | \$87.82  |
| 8    | V10118     | 5/16" SS Lock Washer               | 4   | \$0.42   |
| 9    | MEV10151   | 1" SS Stem w/Seals                 | 1   | \$61.27  |
| 10   | VE10258A   | 1" Electric Ball Seat              | 2   | \$9.93   |

**REPLACEMENT PARTS**  
**EV075-EVR075-EV100FP-EVR100FP-EV125-EVR125**

| ITEM | PART NO    | DESCRIPTION                              | QTY | PRICE    |
|------|------------|------------------------------------------|-----|----------|
| 11   | MEV10354AB | 3/4"-1 1/4" Bottom Load Body             | 1   | \$19.45  |
| 11   | MEV10354AS | 3/4"-1 1/4" Side Load Body               | 1   | \$19.45  |
| 12   | VE10264    | FKM (viton type) Body O-Ring             | 2   | \$6.05   |
| 13   | V10117     | 5/16" x 3 1/2" SS Body Bolt              | 4   | \$1.38   |
| 14   | VE15220    | Housing Screw                            | 6   | \$0.28   |
| 15   | MEV10102A  | Housing Top for Small Motor              | 1   | \$40.31  |
| 16   | VE4984     | 3/4" Second 3 Wire On/Off Motor          | 1   | \$323.91 |
| 16   | VE4983     | 4 Second 4 Wire HT On/Off Motor          | 1   | \$395.88 |
| 17   | MVE105     | Motor Shaft Gasket                       | 1   | \$0.40   |
| 18   | MVE002     | Heyco 1/4" Threaded Bushing              | 1   | \$0.82   |
| 19   | MVE104     | Outer Housing Gasket                     | 1   | \$3.02   |
| 20   | VE109E     | Indicator Seal                           | 1   | \$4.58   |
| 21   | MVE007     | 3mm x 5mm FKM (viton type) O-Ring        | 1   | \$1.03   |
| 22   | MVE106     | Inner Housing Gasket                     | 1   | \$2.67   |
| 23   | VE107A     | Flow Indicator                           | 1   | \$7.20   |
| 24   | MEV10101   | Housing Bottom for Small Motor           | 1   | \$55.42  |
| 25   | EV10210    | Repair Kit (Includes items 2, 9, 10, 12) | 1   | \$76.94  |

# 3-Way Electric Valves

## 1½", 2" Threaded w/Flanged Inlet

### FEATURES

- 316 stainless steel ball & stem.
- Stainless steel hardware.
- Fiberglass reinforced polypropylene.
- Glass reinforced PTFE seats.
- FKM (viton type) or EPDM O-rings.
- 12-volt DC operated.
- 24-volt available in most models.
- 150 P.S.I. maximum pressure @ 70°F.
- Easily repairable.
- Open/closed indicator.

Don't forget the manifold connections for inlets on pages 72-75.



#### Attention:

3-Way regulating valves are not shown, but are available. Standard 3-Way valves use the On/Off wiring diagram.



BOTTOM LOAD



SIDE LOAD

### 1¼ SECOND RESPONSE TIME

#### 1½"-2" BOTTOM LOAD ON/OFF ELECTRIC VALVES

| PART NO | DESCRIPTION        | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
|---------|--------------------|---------|-----------|-------------------|-----|----------|
| EV150BL | 1½" Electric Valve | 150     | 1½"       | 1½"               | 1   | \$753.16 |
| EV200BL | 2" Electric Valve  | 150     | 2"        | 1½"               | 1   | \$753.16 |

#### BOTTOM LOAD:

Directional flow right or left.

Valve flow cannot be turned off.

### 1¼ SECOND RESPONSE TIME

#### 1½"-2" SIDE LOAD REGULATING ELECTRIC VALVES

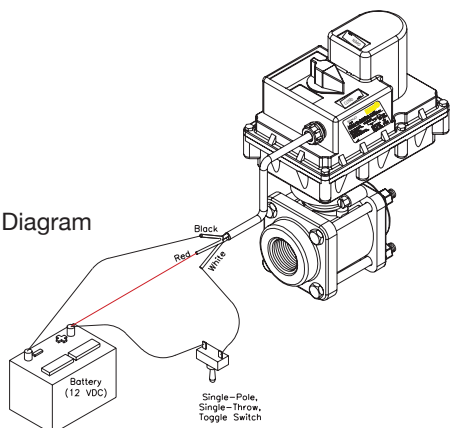
| PART NO | DESCRIPTION        | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
|---------|--------------------|---------|-----------|-------------------|-----|----------|
| EV150SL | 1½" Electric Valve | 150     | 1½"       | 1½"               | 1   | \$753.16 |
| EV200SL | 2" Electric Valve  | 150     | 2"        | 1½"               | 1   | \$753.16 |

#### SIDE LOAD:

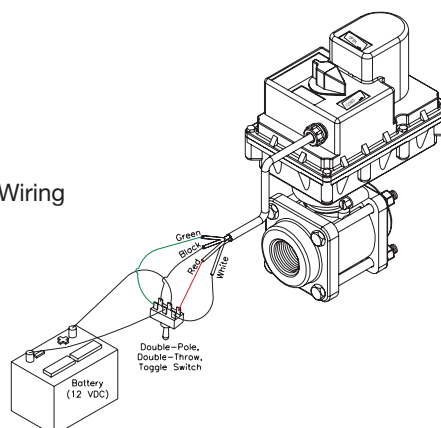
Directional flow right or left.

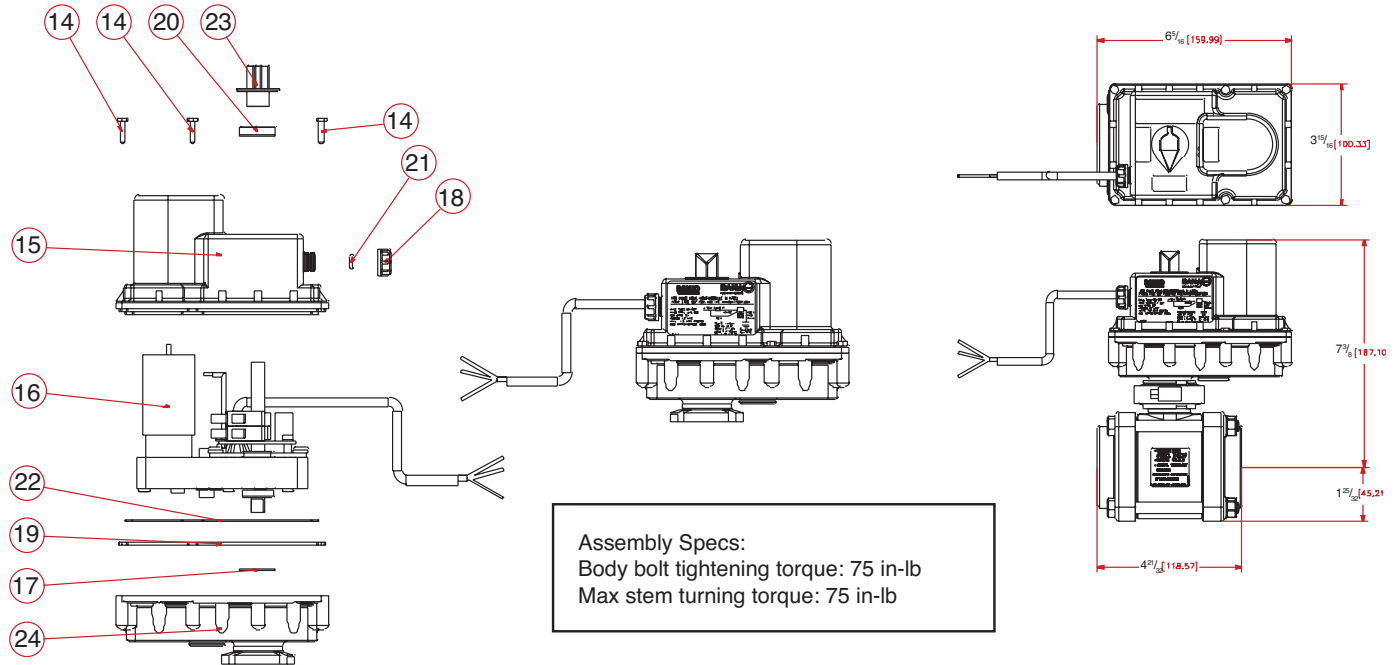
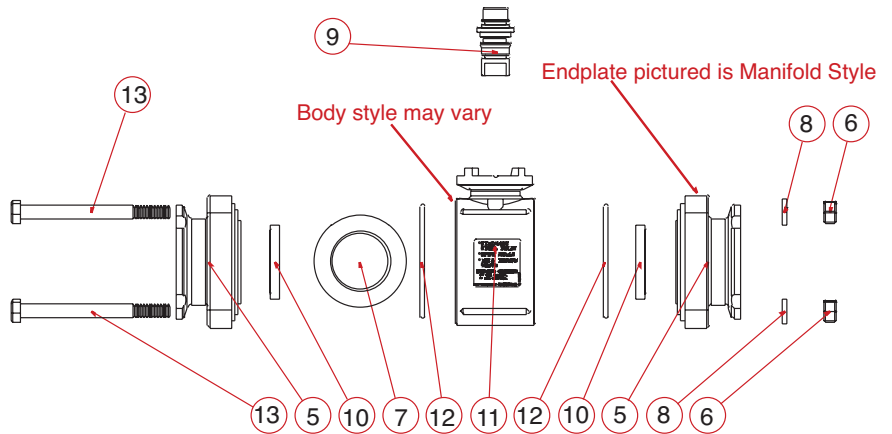
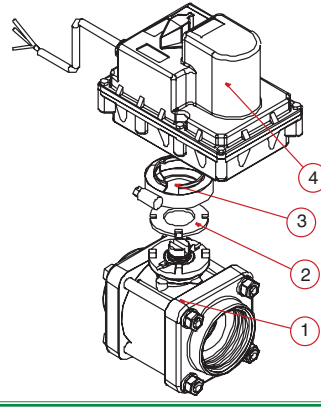
Valve flow cannot be turned off.

On/Off  
Wiring Diagram



Regulating Wiring  
Diagram



**Fast repair replacement options.****REPLACEMENT PARTS**  
**EV150SL-EVR150BL-EV200SL-EVR200BL**

| ITEM | PART NO    | DESCRIPTION                         | QTY | PRICE    |
|------|------------|-------------------------------------|-----|----------|
| 1    | EV150SLXR1 | 1 1/2" Electric Valve Sub Assembly  | 1   | \$323.13 |
| 1    | EV200SLXR1 | 2" Electric Valve Sub Assembly      | 1   | \$323.13 |
| 1    | EV150BLXR1 | 1 1/2" Electric Valve Sub Assembly  | 1   | \$323.13 |
| 1    | EV200BLXR1 | 2" Electric Valve Sub Assembly      | 1   | \$323.13 |
| 2    | MVE004     | Electric Valve Flange Gasket        | 1   | \$0.40   |
| 3    | FC100      | 1" Flange Clamp                     | 1   | \$9.90   |
| 4    | EV4100     | 1 1/4" Second 3 Wire Motor Assembly | 1   | \$417.90 |
| 4    | EVR4100    | Regulating 4 Wire, 4 Second         | 1   | \$313.43 |
| 5    | VE20257    | 1 1/2" Threaded End Plate           | 2   | \$13.03  |
| 5    | VE20256A   | 2" Threaded End Plate               | 2   | \$13.03  |
| 6    | V20019     | 3/8" 16 SS Hex Nut                  | 4   | \$1.03   |
| 7    | VE20355    | 2" 316 SS Hollow Ball               | 1   | \$105.09 |
| 8    | V20018     | 3/8" SS Lock Washer                 | 4   | \$0.42   |
| 9    | MEV10151   | 1" SS Stem w/Seals                  | 1   | \$61.27  |
| 10   | VE20258A   | 1 1/2" & 2" Electric Ball Seat      | 2   | \$10.43  |
| 11   | MEV20354AB | 1 1/2" & 2" Bottom Load Body        | 1   | \$20.07  |
| 11   | MEV20354AS | 1 1/2" & 2" Side Load Body          | 1   | \$20.07  |

**REPLACEMENT PARTS**  
**EV150SL-EVR150BL-EV200SL-EVR200BL**

| ITEM | PART NO  | DESCRIPTION                              | QTY | PRICE    |
|------|----------|------------------------------------------|-----|----------|
| 12   | VE20264  | 2" FKM (viton type) Body O-Ring          | 2   | \$6.03   |
| 13   | V20017   | 3/8" x 4" SS Body Bolt                   | 4   | \$1.72   |
| 14   | VE15220  | Housing Screw                            | 6   | \$0.28   |
| 15   | MVE25102 | Housing Top for Large Motor              | 1   | \$40.31  |
| 16   | VE4987   | 1 1/4" High Torque On/Off Motor          | 1   | \$395.88 |
| 16   | VE4988   | 4 Second 12 Volt High Torque Motor       | 1   | \$384.33 |
| 17   | MVE107   | Motor Shaft Gasket                       | 1   | \$0.40   |
| 18   | MVE002   | Heyco 1/4" Threaded Bushing              | 1   | \$0.82   |
| 19   | MVE104   | Outer Housing Gasket                     | 1   | \$3.02   |
| 20   | VE109E   | Indicator Seal                           | 1   | \$4.58   |
| 21   | MVE007   | 3mm x 5mm FKM (viton type) O-Ring        | 1   | \$1.03   |
| 22   | MVE106   | Inner Housing Gasket                     | 1   | \$2.67   |
| 23   | VE107A   | Flow Indicator                           | 1   | \$7.20   |
| 24   | MEV25101 | Housing Bottom for Large Motor           | 1   | \$55.42  |
| 25   | EV20210  | Repair Kit (Includes items 2, 9, 10, 12) | 1   | \$86.40  |

# 3-Way Electric Valves

## 2" Full Port Threaded w/Flanged Inlet

### FEATURES

- 316 stainless steel ball & stem.
- Stainless steel hardware.
- Fiberglass reinforced polypropylene.
- Glass reinforced PTFE seats.
- FKM (viton type) or EPDM O-rings.
- 12-volt DC operated.
- 24-volt available in most models.
- 150 P.S.I. maximum pressure @ 70°F.
- Easily repairable.
- Open/closed indicator.

Don't forget the manifold connections for inlets on pages 72-75.



#### Attention:

3-Way regulating valves are not shown, but are available. Standard 3-Way valves use the On/Off wiring diagram.



BOTTOM LOAD



SIDE LOAD

### 1 1/4 SECOND RESPONSE TIME

#### 2" FULL PORT BOTTOM LOAD ON/OFF ELECTRIC VALVES

| PART NO   | DESCRIPTION                 | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
|-----------|-----------------------------|---------|-----------|-------------------|-----|----------|
| EV204BLFP | 2" Full Port Electric Valve | 150     | 2"        | 2"                | 1   | \$809.11 |

#### BOTTOM LOAD:

Directional flow right or left.

Valve flow cannot be turned off.

### 1 1/4 SECOND RESPONSE TIME

#### 2" FULL PORT SIDE LOAD REGULATING ELECTRIC VALVES

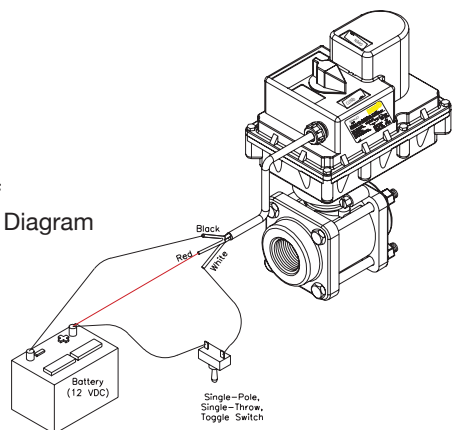
| PART NO   | DESCRIPTION                 | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
|-----------|-----------------------------|---------|-----------|-------------------|-----|----------|
| EV204SLFP | 2" Full Port Electric Valve | 150     | 2"        | 2"                | 1   | \$809.11 |

#### SIDE LOAD:

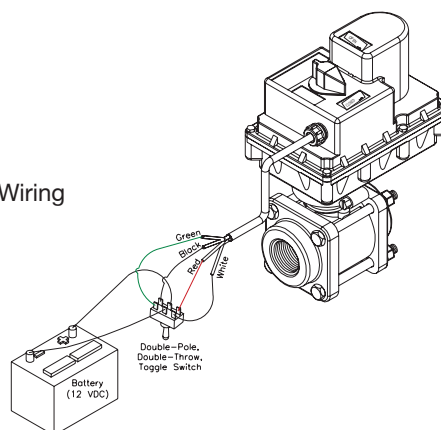
Directional flow right or left.

Valve flow cannot be turned off.

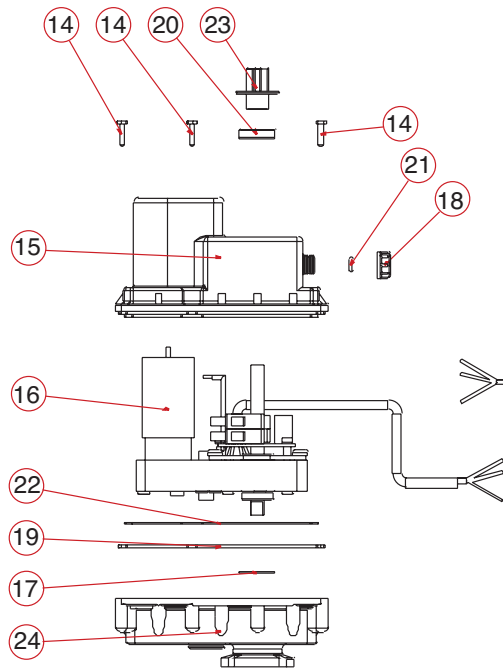
On/Off  
Wiring Diagram



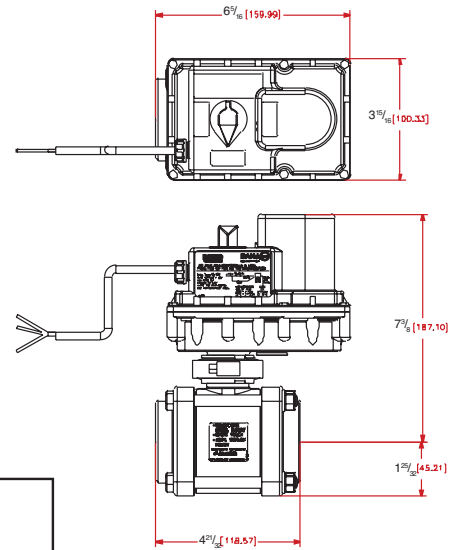
Regulating Wiring  
Diagram



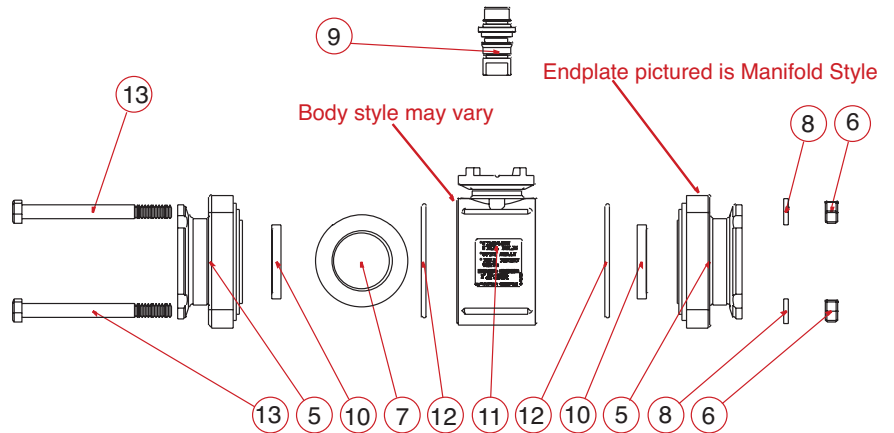
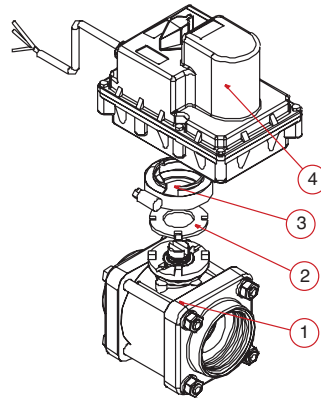




Assembly Specs:  
Body bolt tightening torque: 75 in-lb  
Max stem turning torque: 75 in-lb



#### Fast repair replacement options.



#### REPLACEMENT PARTS EV204SLFP-EVR204BLFP

| ITEM | PART NO    | DESCRIPTION                              | QTY | PRICE    |
|------|------------|------------------------------------------|-----|----------|
| 1    | EV204SLXR1 | 2" Full Port Electric Valve Sub Assembly | 1   | \$387.64 |
| 1    | EV204BLXR1 | 2" Full Port Electric Valve Sub Assembly | 1   | \$387.64 |
| 2    | MVE004     | Electric Valve Flange Gasket             | 1   | \$0.40   |
| 3    | FC100      | 1" Flange Clamp                          | 1   | \$9.90   |
| 4    | EV4100     | 1 1/4" Second 3 Wire Motor Assembly      | 1   | \$417.90 |
| 4    | EVR4100    | Regulating 4 Wire, 4 Second              | 1   | \$313.43 |
| 5    | VE25356A   | 2" Full Port Threaded End Plate          | 2   | \$19.15  |
| 6    | V20019     | 3/8" 16 SS Hex Nut                       | 4   | \$1.03   |
| 7    | VE25355    | 2" 316 SS Hollow Ball                    | 1   | \$139.65 |
| 8    | V20018     | 3/8" SS Lock Washer                      | 4   | \$0.42   |
| 9    | MEV25151   | 1" SS Stem w/Seals                       | 1   | \$68.19  |
| 10   | VE25258A   | 1 1/2" & 2" Electric Ball Seat           | 2   | \$10.43  |
| 11   | MEV25354AB | 1 1/2" & 2" Bottom Load Body             | 1   | \$21.32  |
| 11   | MEV25354AS | 1 1/2" & 2" Side Load Body               | 1   | \$21.32  |
| 12   | V25264     | 2" FKM (viton type) Body O-Ring          | 2   | \$9.81   |

#### REPLACEMENT PARTS EV204SLFP-EVR204BLFP

| ITEM | PART NO  | DESCRIPTION                              | QTY | PRICE    |
|------|----------|------------------------------------------|-----|----------|
| 13   | V25017   | 3/8" x 4 1/2" SS Body Bolt               | 4   | \$2.36   |
| 14   | VE15220  | Housing Screw                            | 6   | \$0.28   |
| 15   | MVE25102 | Housing Top for Large Motor              | 1   | \$40.31  |
| 16   | VE4987   | 1 1/4" High Torque On/Off Motor          | 1   | \$395.88 |
| 16   | VE4988   | 4 Second 12 Volt High Torque Motor       | 1   | \$384.33 |
| 17   | MVE107   | Motor Shaft Gasket                       | 1   | \$0.40   |
| 18   | MVE002   | Heyco 1/4" Threaded Bushing              | 1   | \$0.82   |
| 19   | MVE104   | Outer Housing Gasket                     | 1   | \$3.02   |
| 20   | VE109E   | Indicator Seal                           | 1   | \$4.58   |
| 21   | MVE007   | 3mm x 5mm FKM (viton type) O-Ring        | 1   | \$1.03   |
| 22   | MVE106   | Inner Housing Gasket                     | 1   | \$2.67   |
| 23   | VE107A   | Flow Indicator                           | 1   | \$7.20   |
| 24   | MEV25101 | Housing Bottom for Large Motor           | 1   | \$55.42  |
| 25   | EV25210  | Repair Kit (Includes items 2, 9, 10, 12) | 1   | \$98.56  |

# Manifold Systems

**Quick  
& Easy  
Assembly**

**No Threads  
No Sealant  
No Pipe Tape**



**“Make the Right Connection!”**

## FEATURES

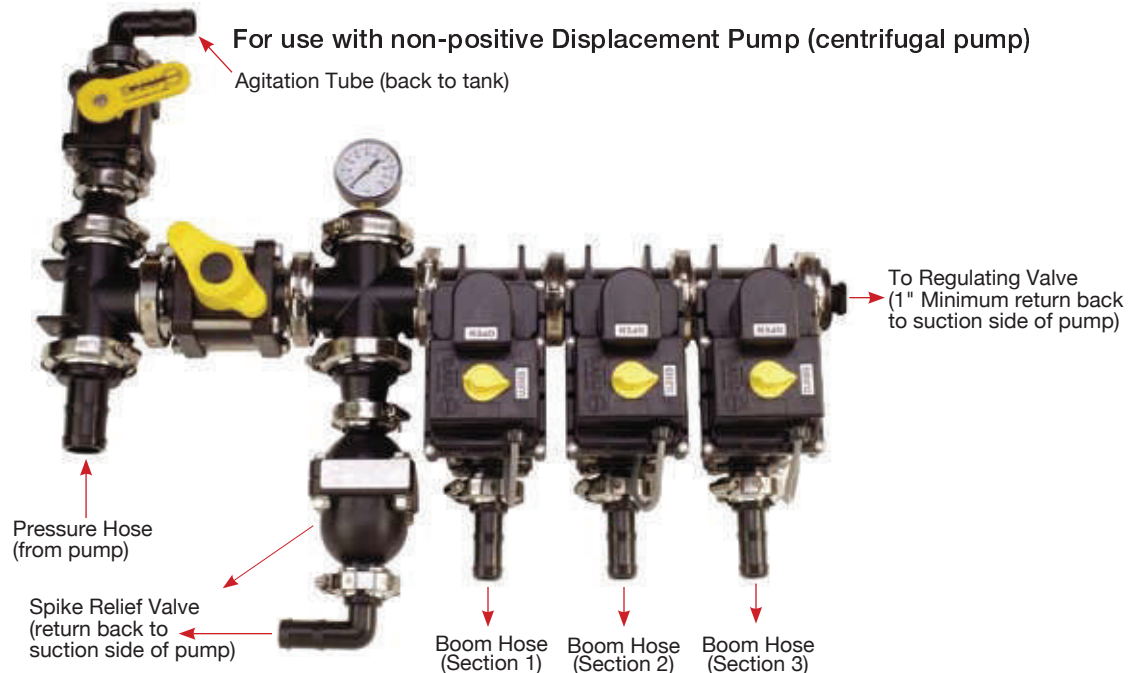
Quick & Easy Assembly  
Positive Seals  
360° Orientation  
Easy On/Off Hose Connections  
No Threads, No Sealant & No Pipe Tape  
Heavy Duty Glass Filled Polypropylene

## APPLICATIONS

Agricultural Sprayers  
Plant Fertilizers  
Industrial Plumbing  
Chemical Processing

## SIZES

M100 Series - 1" Full Port Flow  
M200 Series - 2" Standard Port  
M220 Series - 2" Full Port Flow  
M300 Series - 3" Full Port Flow



# 1" Banjo Electric Manifold Valve Assemblies

## 2 Valve Manifold



| 2 VALVE MANIFOLD ASSEMBLY (M200 SERIES) |                                                                   |         |                 |     |          |
|-----------------------------------------|-------------------------------------------------------------------|---------|-----------------|-----|----------|
| PART NO                                 | DESCRIPTION                                                       | MAX PSI | PIPE SIZE       | QTY | PRICE    |
| MEV102CF                                | 1" Manifold Valve Assembly<br>2" Inlet Flanges, 1" Outlet Flanges | 150     | 2" In<br>1" Out | 1   | \$967.90 |

## 3 Valve Manifold



| 3 VALVE MANIFOLD ASSEMBLY (M200 SERIES) |                                                                   |         |                 |     |            |
|-----------------------------------------|-------------------------------------------------------------------|---------|-----------------|-----|------------|
| PART NO                                 | DESCRIPTION                                                       | MAX PSI | PIPE SIZE       | QTY | PRICE      |
| MEV103CF                                | 1" Manifold Valve Assembly<br>2" Inlet Flanges, 1" Outlet Flanges | 150     | 2" In<br>1" Out | 1   | \$1,429.18 |



| 3 VALVE MANIFOLD ASSEMBLY (M200 SERIES)<br>W/ MOUNTING BRACKETS |                                                                                           |         |                 |     |            |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------|-----------------|-----|------------|
| PART NO                                                         | DESCRIPTION                                                                               | MAX PSI | PIPE SIZE       | QTY | PRICE      |
| MEV103MB                                                        | 1" Manifold Valve Assembly<br>2" Inlet Flanges, 1" Outlet Flanges<br>w/ Mounting Brackets | 150     | 2" In<br>1" Out | 1   | \$1,468.84 |

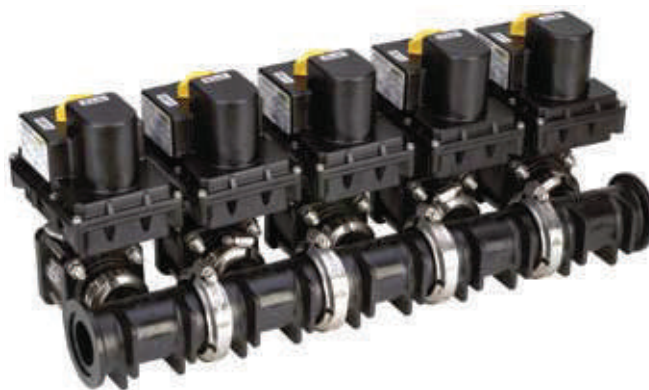
| FLANGED MOUNTING BRACKET TEE |                                                          |         |                 |     |         |
|------------------------------|----------------------------------------------------------|---------|-----------------|-----|---------|
| PART NO                      | DESCRIPTION                                              | MAX PSI | PIPE SIZE       | QTY | PRICE   |
| M200100TEEB                  | 2" x 1" Standard Port Flanged Tee<br>w/ Mounting Bracket | 150     | 2" In<br>1" Out | 1   | \$18.44 |

## 4 Valve Manifold



| 4 VALVE MANIFOLD ASSEMBLY (M200 SERIES) |                                                                   |         |                 |     |            |
|-----------------------------------------|-------------------------------------------------------------------|---------|-----------------|-----|------------|
| PART NO                                 | DESCRIPTION                                                       | MAX PSI | PIPE SIZE       | QTY | PRICE      |
| MEV104CF                                | 1" Manifold Valve Assembly<br>2" Inlet Flanges, 1" Outlet Flanges | 150     | 2" In<br>1" Out | 1   | \$1,931.83 |

## 5 Valve Manifold



| 5 VALVE MANIFOLD ASSEMBLY (M200 SERIES) |                                                                   |         |                 |     |            |
|-----------------------------------------|-------------------------------------------------------------------|---------|-----------------|-----|------------|
| PART NO                                 | DESCRIPTION                                                       | MAX PSI | PIPE SIZE       | QTY | PRICE      |
| MEV105CF                                | 1" Manifold Valve Assembly<br>2" Inlet Flanges, 1" Outlet Flanges | 150     | 2" In<br>1" Out | 1   | \$2,434.88 |



# 1"-3" Electric Manifold Valves

## FEATURES

- 316 stainless steel ball & stem.
- Fiberglass reinforced polypropylene.
- Glass reinforced PTFE seats.
- FKM (viton type) or EPDM O-rings.
- 12-volt DC operated.
- 150 P.S.I. maximum pressure.
- Internally fused/automatic reset.
- Open/closed indicator.

Don't forget the manifold connections on pages 72-75.



## 3/4 to 1 1/4 SECOND RESPONSE TIME

### 1", 2" & 3" ON/OFF ELECTRIC MANIFOLD VALVES

| PART NO  | DESCRIPTION                     | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE      |
|----------|---------------------------------|---------|-----------|-------------------|-----|------------|
| MEV100CF | 1" Full Port Electric Valve     | 150     | 1"        | 1"                | 1   | \$464.27   |
| MEV200CF | 2" Standard Port Electric Valve | 150     | 2"        | 1 1/2"            | 1   | \$680.57   |
| MEV220CF | 2" Full Port Electric Valve     | 150     | 2"        | 2"                | 1   | \$718.37   |
| MEV300CF | 3" Full Port Electric Valve     | 150     | 3"        | 3"                | 1   | \$1,958.86 |

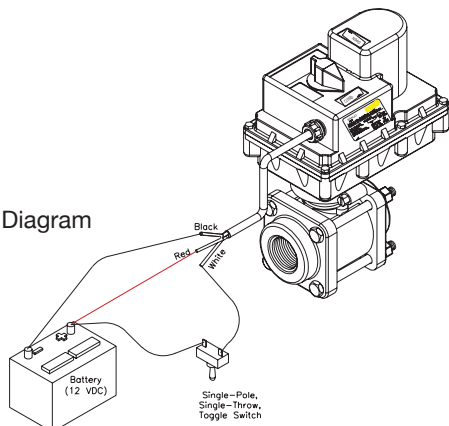
## 4 SECOND RESPONSE TIME

### 1" & 2" REGULATING ELECTRIC MANIFOLD VALVES

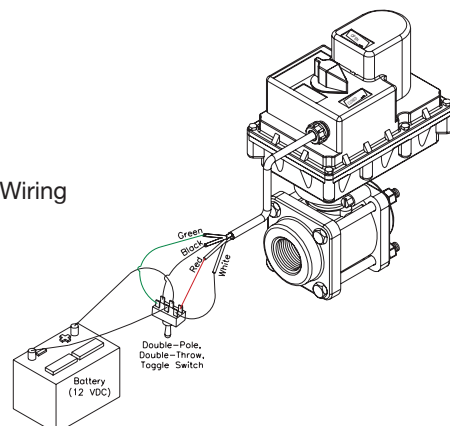
| PART NO   | DESCRIPTION                     | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
|-----------|---------------------------------|---------|-----------|-------------------|-----|----------|
| MEVR100CF | 1" Full Port Electric Valve     | 150     | 1"        | 1"                | 1   | \$642.76 |
| MEVR200CF | 2" Standard Port Electric Valve | 150     | 2"        | 1 1/2"            | 1   | \$809.11 |
| MEVR220CF | 2" Full Port Electric Valve     | 150     | 2"        | 2"                | 1   | \$854.47 |

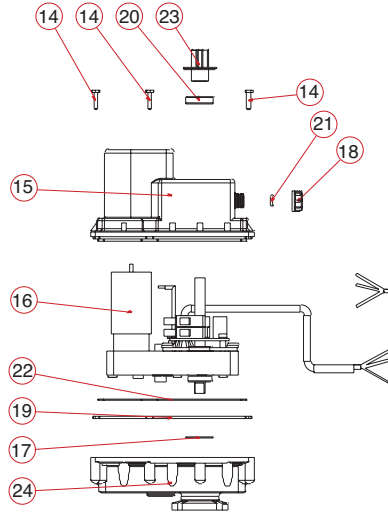
Note: 2 wire regulating and other response times available. Contact our Sales Team for part number and availability of valves.

On/Off Wiring Diagram

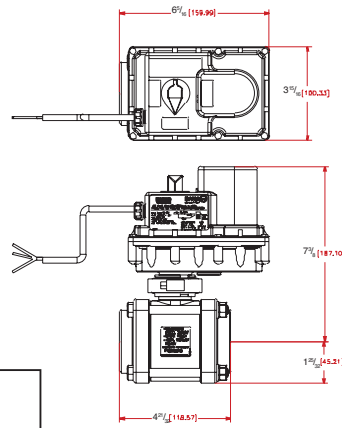


Regulating Wiring Diagram

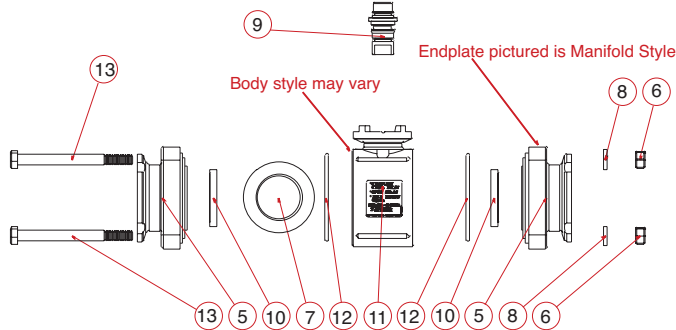
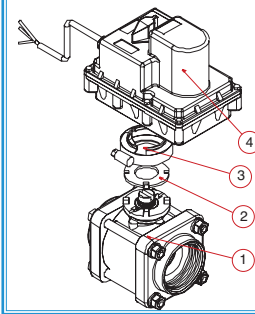




Assembly Specs:  
Body bolt tightening torque: 75 in-lb  
Max stem turning torque: 75 in-lb



Fast repair replacement options.



#### REPLACEMENT PARTS MEV100CF-MEV200CF-MEV220CF-MEV300CF

| ITEM | PART NO    | DESCRIPTION                              | QTY | PRICE    |
|------|------------|------------------------------------------|-----|----------|
| 1    | MEV100XR1  | 1" Full Port Electric Valve Sub Assembly | 1   | \$136.75 |
| 1    | MEV200XR1  | 2" Electric Valve Sub Assembly           | 1   | \$251.92 |
| 1    | MEV220XR1  | 2" Full Port Electric Valve Sub Assembly | 1   | \$307.32 |
| 2    | MVE004     | Electric Valve Flange Gasket             | 1   | \$0.40   |
| 3    | FC100      | 1" Flange Clamp                          | 1   | \$9.90   |
| 4    | EV3100     | 1" 3/4 Second 3 Wire Motor Assembly      | 1   | \$305.18 |
| 4    | EV4100     | 2" 1 1/4 Second 3 Wire Motor Assembly    | 1   | \$417.90 |
| 4    | VE5630     | 3" 3 Second 3 Wire Motor Assembly        | 1   | \$805.93 |
| 5    | VE10278A   | 1" Manifold End Plate                    | 2   | \$8.92   |
| 5    | VE20294A   | 2" Manifold End Plate                    | 2   | \$13.03  |
| 5    | VE25378A   | 2" Full Port Manifold End Plate          | 2   | \$19.15  |
| 5    | V35278     | 3" Full Port Manifold End Plate          | 2   | \$47.93  |
| 6    | V10119     | 5/16" SS Body Nut                        | 4   | \$0.56   |
| 6    | V20019     | 3/8" 16 SS Hex Nut                       | 4   | \$1.03   |
| 7    | VE10155SSH | 1" 316 SS Hollow Ball                    | 1   | \$27.11  |
| 7    | VE20255SSH | 2" 316 SS Hollow Ball                    | 1   | \$52.54  |
| 7    | VE25255SSH | 2" Full Port 316 SS Hollow Ball          | 1   | \$53.12  |
| 7    | V35255A    | 3" Full Port 316 SS Hollow Ball          | 1   | \$36.81  |
| 8    | V10118     | 5/16" SS Lock Washer                     | 4   | \$0.42   |
| 8    | V20018     | 3/8" SS Lock Washer                      | 4   | \$0.42   |
| 9    | MEV10151   | 1" SS Stem w/Seals                       | 1   | \$61.27  |
| 9    | MEV25151   | 2" SS Stem w/Seals                       | 1   | \$68.19  |
| 9    | VE30151SS* | 3" SS Stem w/Out Seals*                  | 1   | \$58.77  |
| 10   | VE10258A   | 1" Electric Ball Seat                    | 2   | \$9.93   |
| 10   | VE20258A   | 2" Electric Ball Seat                    | 2   | \$10.43  |
| 10   | VE25258    | 2" Full Port Electric Ball Seat          | 2   | \$10.43  |
| 10   | VE35258A   | 3" Full Port Electric Ball Seat          | 2   | \$20.50  |
| 11   | MEV10254A  | 1" Body                                  | 1   | \$14.33  |
| 11   | MEV20254A  | 2" Body                                  | 1   | \$17.22  |

#### REPLACEMENT PARTS MEV100CF-MEV200CF-MEV220CF-MEV300CF

| ITEM | PART NO   | DESCRIPTION                                                                                                | QTY | PRICE    |
|------|-----------|------------------------------------------------------------------------------------------------------------|-----|----------|
| 11   | MEV25254A | 2" Full Port Body                                                                                          | 1   | \$20.24  |
| 11   | V35254    | 3" Full Port Body                                                                                          | 1   | \$33.67  |
| 12   | VE10264   | 1" FKM (viton type) Body O-Ring                                                                            | 2   | \$6.05   |
| 12   | VE20264   | 2" FKM (viton type) Body O-Ring                                                                            | 2   | \$6.03   |
| 12   | V25264    | 2" FKM (viton type) Body O-Ring                                                                            | 2   | \$9.81   |
| 12   | V35265    | 3" FKM (viton type) Body O-Ring                                                                            | 2   | \$13.76  |
| 13   | V10117    | 5/16" x 3 1/2" SS Body Bolt                                                                                | 4   | \$1.38   |
| 13   | V20017    | 3/8" x 4" SS Body Bolt (2")                                                                                | 4   | \$1.72   |
| 13   | V25017    | 3/8" x 4 1/2" SS Body Bolt (2" FP)                                                                         | 4   | \$2.36   |
| 13   | V35017    | 3/8" x 6" SS Body Bolt (3" FP)                                                                             | 4   | \$4.87   |
| 14   | VE15220   | Housing Screw                                                                                              | 6   | \$0.28   |
| 15   | MEV10102A | Housing Top for Small Motor (1")                                                                           | 1   | \$40.31  |
| 15   | MVE25102  | Housing Top for Large Motor (2")                                                                           | 1   | \$40.31  |
| 16   | VE4984    | 3/4 Second High Torque On/Off Motor                                                                        | 1   | \$323.91 |
| 16   | VE4987    | 1 1/4 Second High Torque On/Off Motor                                                                      | 1   | \$395.88 |
| 17   | MVE107    | Motor Shaft Gasket                                                                                         | 1   | \$0.40   |
| 18   | MVE002    | Heyco 1/4" Threaded Bushing                                                                                | 1   | \$0.82   |
| 19   | MVE104    | Outer Housing Gasket                                                                                       | 1   | \$3.02   |
| 20   | VE109E    | Indicator Seal                                                                                             | 1   | \$4.58   |
| 21   | MVE007    | 3mm x 5mm FKM (viton type) O-Ring                                                                          | 1   | \$1.03   |
| 22   | MVE106    | Inner Housing Gasket                                                                                       | 1   | \$2.67   |
| 23   | VE107A    | Flow Indicator                                                                                             | 1   | \$7.20   |
| 24   | MEV10101  | 1" Housing Bottom for Large Motor                                                                          | 1   | \$55.42  |
| 24   | MEV25101  | 2" Housing Bottom for Large Motor                                                                          | 1   | \$55.42  |
| 25   | EV10210   | 1" Repair Kit (Includes items 2, 9, 10, 12)                                                                | 1   | \$76.94  |
| 25   | EV20210   | 2" Repair Kit (Includes items 2, 9, 10, 12)                                                                | 1   | \$86.40  |
| 25   | EV25210   | 2" FP Repair Kit (Includes items 2, 9, 10, 12)                                                             | 1   | \$98.56  |
| 25   | EV35210   | 3" FP Repair Kit (Includes items 10, 12, thrust bushing, upper stem bushing, FKM (viton type) stem o-ring) | 1   | \$47.05  |

NOTE: Item marked with asterisk\* please see kit for seals.



# 3-Way Side Load Electric Manifold Valves 1", 1½", & 2" Full Port

## FEATURES

- 316 stainless steel ball & stem.
- Fiberglass reinforced polypropylene.
- Glass reinforced PTFE seats.
- FKM (viton type) or EPDM O-rings.
- 12-volt DC operated.
- 150 P.S.I. maximum pressure.
- Internally fused/automatic reset.
- Open/closed indicator.

Don't forget the manifold connections on pages 72-75.



## ON/OFF ELECTRIC VALVES ¾ to 1¼ RESPONSE TIME

| 1" & 2" ON/OFF SIDE LOAD ELECTRIC MANIFOLD VALVES |                                 |         |           |                   |     |          |
|---------------------------------------------------|---------------------------------|---------|-----------|-------------------|-----|----------|
| PART NO                                           | DESCRIPTION                     | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
| MEV100SLCF                                        | 1" Full Port Electric Valve     | 150     | 1"        | 1"                | 1   | \$521.75 |
| MEV200SLCF                                        | 2" Standard Port Electric Valve | 150     | 2"        | 1½"               | 1   | \$809.11 |
| MEV220SLCF                                        | 2" Full Port Electric Valve     | 150     | 2"        | 2"                | 1   | \$809.11 |

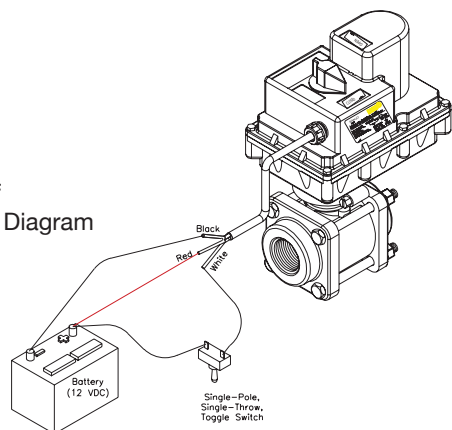
## REGULATING ELECTRIC VALVES - 4 SECOND RESPONSE TIME

| 1" & 2" REGULATING SIDE LOAD ELECTRIC MANIFOLD VALVES |                                 |         |           |                   |     |          |
|-------------------------------------------------------|---------------------------------|---------|-----------|-------------------|-----|----------|
| PART NO                                               | DESCRIPTION                     | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
| MEVR100SLCF                                           | 1" Full Port Electric Valve     | 150     | 1"        | 1"                | 1   | \$650.31 |
| MEVR200SLCF                                           | 2" Standard Port Electric Valve | 150     | 2"        | 1½"               | 1   | \$785.53 |
| MEVR220SLCF                                           | 2" Full Port Electric Valve     | 150     | 2"        | 2"                | 1   | \$945.19 |

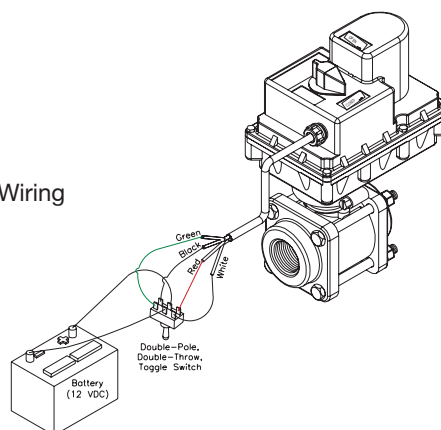
## SIDE LOAD:

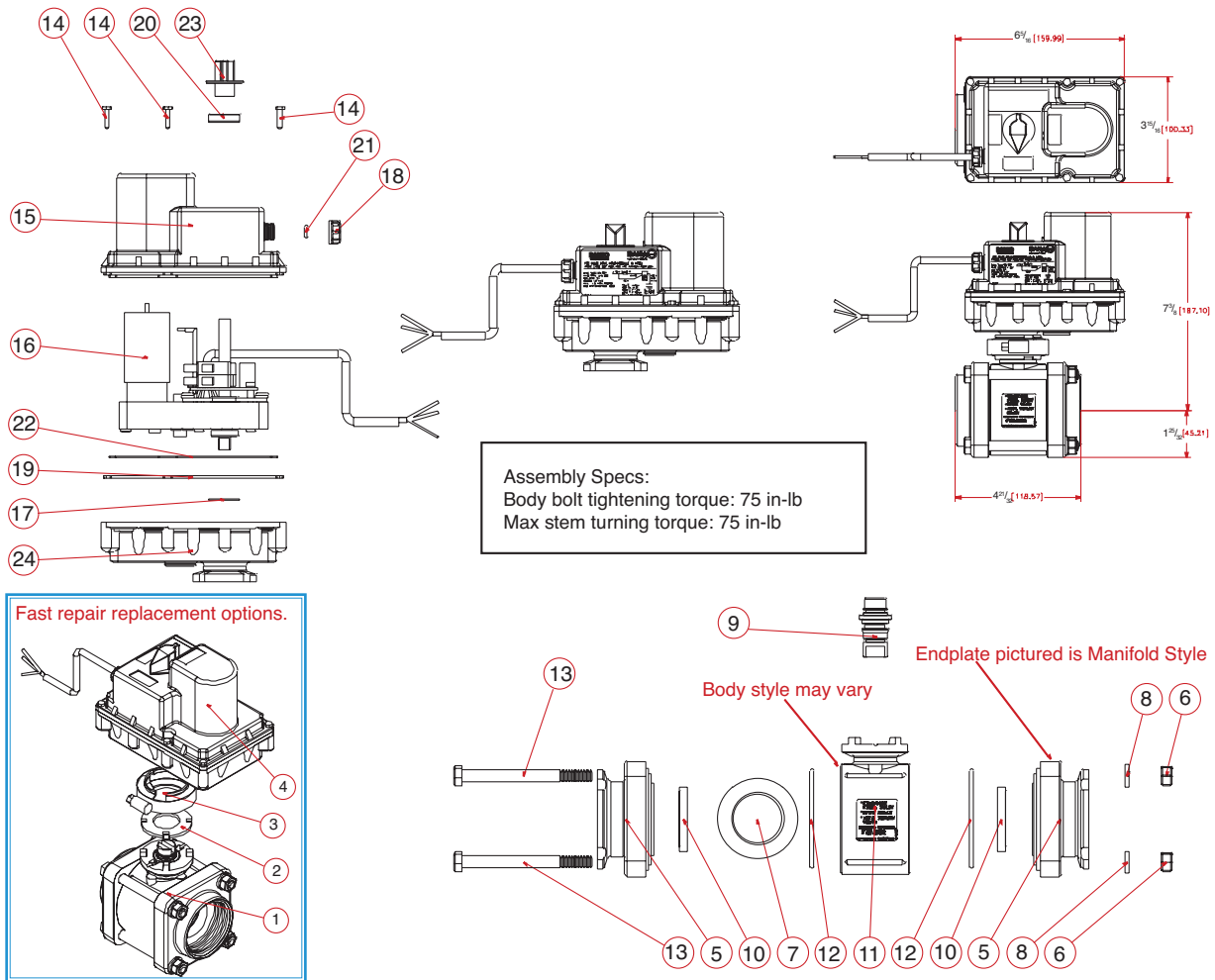
Directional Flow left or right. Valve flow cannot be turned off.

On/Off  
Wiring Diagram

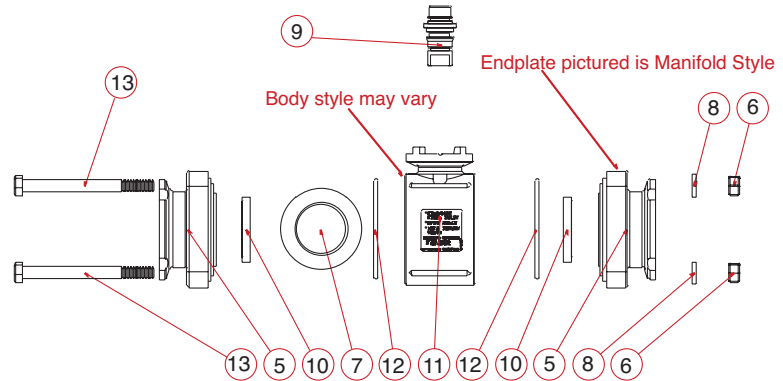
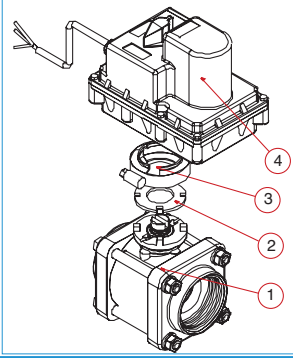


Regulating Wiring  
Diagram





## Fast repair replacement options.

REPLACEMENT PARTS  
MEV100SLCF-MEV200SLCF-MEV220SLCF

| ITEM | PART NO     | DESCRIPTION                              | QTY | PRICE    |
|------|-------------|------------------------------------------|-----|----------|
| 1    | MEV100SLXR1 | 1" Full Port Electric Valve Sub Assembly | 1   | \$194.33 |
| 1    | MEV200SLXR1 | 2" Electric Valve Sub Assembly           | 1   | \$323.13 |
| 1    | MEV220SLXR1 | 2" Full Port Electric Valve Sub Assembly | 1   | \$387.64 |
| 2    | MVE004      | Electric Valve Flange Gasket             | 1   | \$0.40   |
| 3    | FC100       | 1" Flange Clamp                          | 1   | \$9.90   |
| 4    | EV3100      | 1" 3/4 Second 3 Wire Motor Assembly      | 1   | \$305.18 |
| 4    | EV4100      | 2" 1 1/4 Second 3 Wire Motor Assembly    | 1   | \$417.90 |
| 5    | VE10278A    | 1" Manifold End Plate                    | 2   | \$8.92   |
| 5    | VE20294     | 2" Manifold End Plate                    | 2   | \$13.03  |
| 5    | VE25378A    | 2" Full Port Manifold End Plate          | 2   | \$19.15  |
| 6    | V10119      | 5/16" SS Body Nut                        | 4   | \$0.56   |
| 6    | V20019      | 3/8" 16 SS Hex Nut                       | 4   | \$1.03   |
| 7    | VE10355     | 1" 316 SS Hollow Ball                    | 1   | \$87.82  |
| 7    | VE20355     | 2" 316 SS Hollow Ball                    | 1   | \$105.09 |
| 7    | VE25355     | 2" Full Port 316 SS Hollow Ball          | 1   | \$139.65 |
| 8    | V10118      | 5/16" SS Lock Washer                     | 4   | \$0.42   |
| 8    | V20018      | 3/8" SS Lock Washer                      | 4   | \$0.42   |
| 9    | MEV10151    | 1" SS Stem w/Seals                       | 1   | \$61.27  |
| 9    | MEV25151    | 2" SS Stem w/Seals                       | 1   | \$68.19  |
| 10   | VE10258A    | 1" Electric Ball Seat                    | 2   | \$9.93   |
| 10   | VE20258     | 2" Electric Ball Seat                    | 2   | \$10.43  |
| 10   | VE25258A    | 2" Full Port Electric Ball Seat          | 2   | \$10.43  |
| 11   | MEV10354AS  | 1" Body                                  | 1   | \$19.45  |
| 11   | MEV20354AS  | 2" Body                                  | 1   | \$20.07  |
| 11   | MEV25354AS  | 2" Full Port Body                        | 1   | \$21.32  |

REPLACEMENT PARTS  
MEV100SLCF-MEV200SLCF-MEV220SLCF

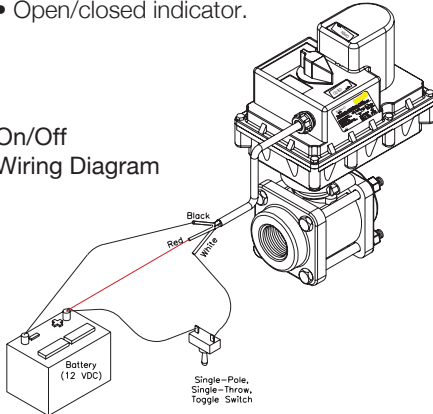
| ITEM | PART NO   | DESCRIPTION                                    | QTY | PRICE    |
|------|-----------|------------------------------------------------|-----|----------|
| 12   | VE10264   | 1" FKM (viton type) Body O-Ring                | 2   | \$6.05   |
| 12   | VE20264   | 2" FKM (viton type) Body O-Ring                | 2   | \$6.03   |
| 12   | V25264    | 2" Full Port FKM (viton type) Body O-Ring      | 2   | \$9.81   |
| 13   | V10117    | 5/16" x 3 1/2" SS Body Bolt                    | 4   | \$1.38   |
| 13   | V20017    | 3/8" x 4" SS Body Bolt (2")                    | 4   | \$1.72   |
| 13   | V25017    | 3/8" x 4 1/2" SS Body Bolt (2" FP)             | 4   | \$2.36   |
| 14   | VE15220   | Housing Screw                                  | 6   | \$0.28   |
| 15   | MEV10102A | Housing Top for Small Motor (1")               | 1   | \$40.31  |
| 15   | MVE25102  | Housing Top for Large Motor (2")               | 1   | \$40.31  |
| 16   | VE4984    | 3/4 Second High Torque On/Off Motor            | 1   | \$323.91 |
| 16   | VE4987    | 1 1/4 Second High Torque On/Off Motor          | 1   | \$395.88 |
| 17   | MVE107    | Motor Shaft Gasket                             | 1   | \$0.40   |
| 18   | MVE002    | Heyco 1/4" Threaded Bushing                    | 1   | \$0.82   |
| 19   | MVE104    | Outer Housing Gasket                           | 1   | \$3.02   |
| 20   | VE109E    | Indicator Seal                                 | 1   | \$4.58   |
| 21   | MVE007    | 3mm x 5mm FKM (viton type) O-Ring              | 1   | \$1.03   |
| 22   | MVE106    | Inner Housing Gasket                           | 1   | \$2.67   |
| 23   | VE107A    | Flow Indicator                                 | 1   | \$7.20   |
| 24   | MEV10101  | 1" Housing Bottom for Large Motor              | 1   | \$55.42  |
| 24   | MEV25101  | 2" Housing Bottom for Large Motor              | 1   | \$55.42  |
| 25   | EV10210   | 1" Repair Kit (Includes items 2, 9, 10, 12)    | 1   | \$76.94  |
| 25   | EV20210   | 2" Repair Kit (Includes items 2, 9, 10, 12)    | 1   | \$86.40  |
| 25   | EV25210   | 2" FP Repair Kit (Includes items 2, 9, 10, 12) | 1   | \$98.56  |

# 3-Way Bottom Load Electric Manifold Valves 1", 1½", & 2" Full Port

## FEATURES

- 316 stainless steel ball & stem.
- Fiberglass reinforced polypropylene.
- Glass reinforced PTFE seats.
- FKM (viton type) or EPDM O-rings.
- 12-volt DC operated.
- 150 P.S.I. maximum pressure.
- Internally fused/automatic reset.
- Open/closed indicator.

On/Off  
Wiring Diagram



## ON/OFF ELECTRIC VALVES ¾ to 1¼ Response time

### 1" & 2" ON/OFF BOTTOM LOAD ELECTRIC MANIFOLD VALVES

| PART NO    | DESCRIPTION                     | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
|------------|---------------------------------|---------|-----------|-------------------|-----|----------|
| MEV100BLCF | 1" Full Port Electric Valve     | 150     | 1"        | 1"                | 1   | \$521.75 |
| MEV200BLCF | 2" Standard Port Electric Valve | 150     | 2"        | 1½"               | 1   | \$809.11 |
| MEV220BLCF | 2" Full Port Electric Valve     | 150     | 2"        | 2"                | 1   | \$809.11 |

**NOTE: NO Regulating Valve available for 3-way bottom load electric manifold valves.**

## Manifold Pressure Spike Valves

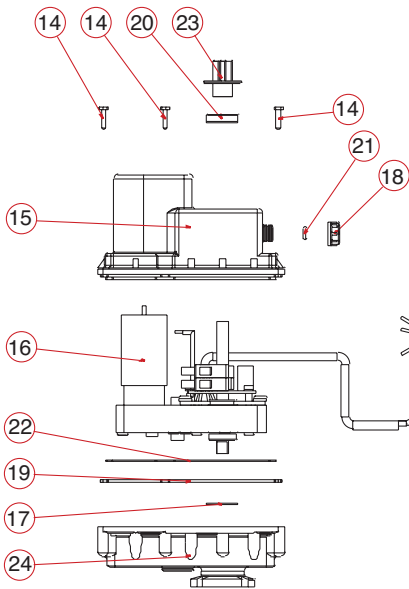
## FEATURES

- FKM (viton type) seals.
- Precision molded in polypropylene. Polypropylene is reinforced with fiberglass for additional strength.
- Preset pressure spring.
- Poppet is diamond turned, after molding, to make it spherically perfect, which provides precise seal.
- 360° Orientation.
- Quick and easy assembly.

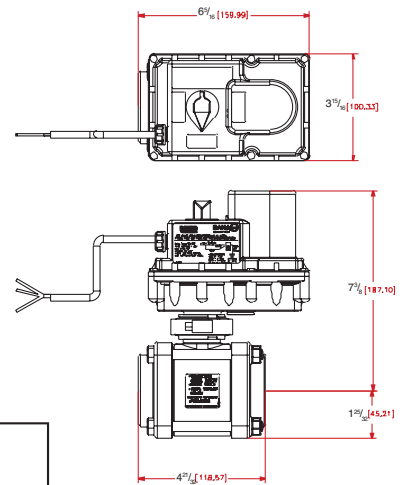


### MANIFOLD PRESSURE SPIKE VALVES

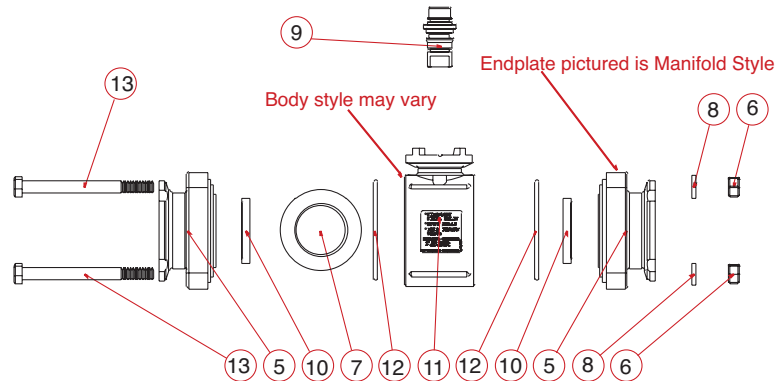
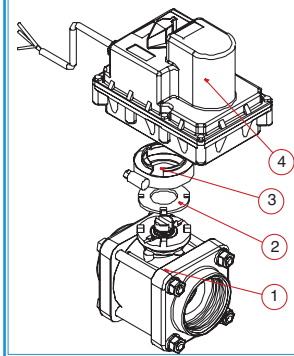
| PART NO     | DESCRIPTION            | PRESSURE SPIKE | QTY | PRICE   |
|-------------|------------------------|----------------|-----|---------|
| MPRV100-050 | 1" Pressue Spike Valve | 50 PSI         | 1   | \$87.55 |
| MPRV100-075 | 1" Pressue Spike Valve | 75 PSI         | 1   | \$87.55 |
| MPRV100-100 | 1" Pressue Spike Valve | 100 PSI        | 1   | \$80.70 |
| MPRV100-125 | 1" Pressue Spike Valve | 125 PSI        | 1   | \$80.70 |
| MPRV100-150 | 1" Pressue Spike Valve | 150 PSI        | 1   | \$80.70 |



Assembly Specs:  
Body bolt tightening torque: 75 in-lb  
Max stem turning torque: 75 in-lb



Fast repair replacement options.



| REPLACEMENT PARTS<br>MEV100BLCF-MEV200BLCF-MEV220BLCF |             |                                          |     |          |
|-------------------------------------------------------|-------------|------------------------------------------|-----|----------|
| ITEM                                                  | PART NO     | DESCRIPTION                              | QTY | PRICE    |
| 1                                                     | MEV100BLXR1 | 1" Full Port Electric Valve Sub Assembly | 1   | \$194.33 |
| 1                                                     | MEV200BLXR1 | 2" Electric Valve Sub Assembly           | 1   | \$323.13 |
| 1                                                     | MEV220BLXR1 | 2" Full Port Electric Valve Sub Assembly | 1   | \$387.64 |
| 2                                                     | MVE004      | Electric Valve Flange Gasket             | 1   | \$0.40   |
| 3                                                     | FC100       | 1" Flange Clamp                          | 1   | \$9.90   |
| 4                                                     | EV3100      | 1" 3/4 Second 3 Wire Motor Assembly      | 1   | \$305.18 |
| 4                                                     | EV4100      | 2" 1 1/4 Second 3 Wire Motor Assembly    | 1   | \$417.90 |
| 5                                                     | VE10278A    | 1" Manifold End Plate                    | 2   | \$8.92   |
| 5                                                     | VE20294     | 2" Manifold End Plate                    | 2   | \$13.03  |
| 5                                                     | VE25378A    | 2" Full Port Manifold End Plate          | 2   | \$19.15  |
| 6                                                     | V10119      | 5/16" SS Body Nut                        | 4   | \$0.56   |
| 6                                                     | V20019      | 3/8" 16 SS Hex Nut                       | 4   | \$1.03   |
| 7                                                     | VE10355     | 1" 316 SS Hollow Ball                    | 1   | \$87.82  |
| 7                                                     | VE20355     | 2" 316 SS Hollow Ball                    | 1   | \$105.09 |
| 7                                                     | VE25355     | 2" Full Port 316 SS Hollow Ball          | 1   | \$139.65 |
| 8                                                     | V10118      | 5/16" SS Lock Washer                     | 4   | \$0.42   |
| 8                                                     | V20018      | 3/8" SS Lock Washer                      | 4   | \$0.42   |
| 9                                                     | MEV10151    | 1" SS Stem w/Seals                       | 1   | \$61.27  |
| 9                                                     | MEV25151    | 2" SS Stem w/Seals                       | 1   | \$68.19  |
| 10                                                    | VE10258A    | 1" Electric Ball Seat                    | 2   | \$9.93   |
| 10                                                    | VE20258     | 2" Electric Ball Seat                    | 2   | \$10.43  |
| 10                                                    | VE25258A    | 2" Full Port Electric Ball Seat          | 2   | \$10.43  |
| 11                                                    | MEV10354AB  | 1" Body                                  | 1   | \$19.45  |
| 11                                                    | MEV20354AB  | 2" Body                                  | 1   | \$20.07  |
| 11                                                    | MEV25354AB  | 2" Full Port Body                        | 1   | \$21.32  |

| REPLACEMENT PARTS<br>MEV100BLCF-MEV200BLCF-MEV220BLCF |           |                                             |     |          |
|-------------------------------------------------------|-----------|---------------------------------------------|-----|----------|
| ITEM                                                  | PART NO   | DESCRIPTION                                 | QTY | PRICE    |
| 12                                                    | VE10264   | 1" FKM (viton type) Body O-Ring             | 2   | \$6.05   |
| 12                                                    | VE20264   | 2" FKM (viton type) Body O-Ring             | 2   | \$6.03   |
| 12                                                    | V25264    | 2" Full Port FKM (viton type) Body O-Ring   | 2   | \$9.81   |
| 13                                                    | V10117    | 5/16" x 3 1/2" SS Body Bolt                 | 4   | \$1.38   |
| 13                                                    | V20017    | 3/8" x 4" SS Body Bolt (2")                 | 4   | \$1.72   |
| 13                                                    | V25017    | 3/8" x 4 1/2" SS Body Bolt (2" FP)          | 4   | \$2.36   |
| 14                                                    | VE15220   | Housing Screw                               | 6   | \$0.28   |
| 15                                                    | MEV10102A | Housing Top for Small Motor (1")            | 1   | \$40.31  |
| 15                                                    | MVE25102  | Housing Top for Large Motor (2")            | 1   | \$40.31  |
| 16                                                    | VE4984    | 3/4 Second High Torque On/Off Motor         | 1   | \$323.91 |
| 16                                                    | VE4987    | 1 1/4 Second High Torque On/Off Motor       | 1   | \$395.88 |
| 17                                                    | MVE107    | Motor Shaft Gasket                          | 1   | \$0.40   |
| 18                                                    | MVE002    | Heyco 1/4" Threaded Bushing                 | 1   | \$0.82   |
| 19                                                    | MVE104    | Outer Housing Gasket                        | 1   | \$3.02   |
| 20                                                    | VE109E    | Indicator Seal                              | 1   | \$4.58   |
| 21                                                    | MVE007    | 3mm x 5mm FKM (viton type) O-Ring           | 1   | \$1.03   |
| 22                                                    | MVE106    | Inner Housing Gasket                        | 1   | \$2.67   |
| 23                                                    | VE107A    | Flow Indicator                              | 1   | \$7.20   |
| 24                                                    | MEV10101  | 1" Housing Bottom for Large Motor           | 1   | \$55.42  |
| 24                                                    | MEV25101  | 2" Housing Bottom for Large Motor           | 1   | \$55.42  |
| 25                                                    | EV10210   | 1" Repair Kit (Includes items 2, 9, 10, 12) | 1   | \$76.94  |
| 25                                                    | EV20210   | 2" Repair Kit (Includes items 2, 9, 10, 12) | 1   | \$86.40  |
| 25                                                    | EV25210   | 2" FP RepairKit(Includes items 2,9,10,12)   | 1   | \$98.56  |



# Manifold Bolted Ball Valves 4 and 6 Bolt Valves

## FEATURES

- FKM (viton type) seals.
- PTFE self-lubricating stem bushings and seats cannot stick or bind.
- Precision molded in polypropylene. Polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.



## 4 & 6 BOLT VALVES

| PART NO | DESCRIPTION                     | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY    | PRICE    |
|---------|---------------------------------|---------|-----------|-------------------|--------|----------|
| MV100CF | 1" Flange Ball Valve            | 150     | 1"        | 1"                | 24/box | \$43.75  |
| MV200CF | 2" Flange Ball Valve            | 150     | 2"        | 1½"               | 12/box | \$61.91  |
| MV220CF | 2" Full Port Flange Ball Valve  | 150     | 2"        | 2"                | 8/box  | \$82.52  |
| MV225CF | 2" Full Port Flange 5 Way Valve | 150     | 2"        | 2"                | 1      | \$391.34 |
| MV300   | 3" Standard Flange Ball Valve   | 100     | 3"        | 2½"               | 6/box  | \$135.47 |
| MV300CF | 3" Full Port Flange Ball Valve  | 100     | 3"        | 3"                | 6/box  | \$196.35 |

\*Valve repair kits contain items marked with asterisk  
 1 Ball      2 Body O-Rings      1 Thrust Washer  
 2 Ball Seats      1 Upper Stem Bushing      1 Stem O-Ring

CHART 1

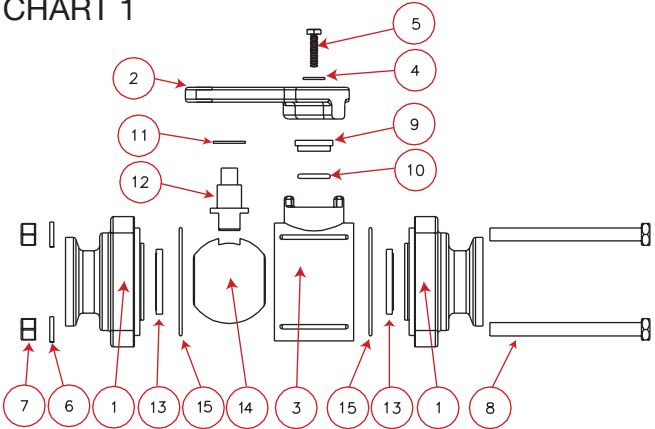


CHART 2

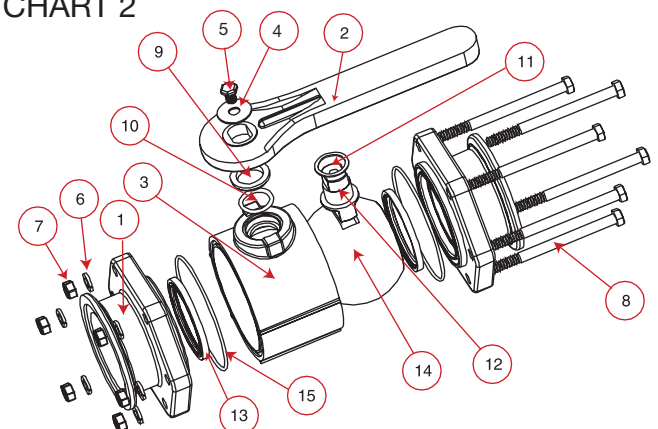




Chart 1

| REPLACEMENT PARTS MV100CF |          |                               |     |         |
|---------------------------|----------|-------------------------------|-----|---------|
| ITEM                      | PART NO  | DESCRIPTION                   | QTY | PRICE   |
| 1                         | V10278   | 1" Manifold End Plate         | 2   | \$11.10 |
| 2                         | V10153A  | Handle                        | 1   | \$4.30  |
| 3                         | V10254   | Body                          | 1   | \$8.46  |
| 4                         | V07021A  | S.S. Handle Washer            | 1   | \$0.42  |
| 5                         | V10020A  | #10 x 1 1/4" S.S. Handle Bolt | 4   | \$1.03  |
| 6                         | V10118   | 5/16" S.S. Lock Washer        | 4   | \$0.42  |
| 7                         | V10119   | 5/16" S.S. Nut                | 4   | \$0.56  |
| 8                         | V10117   | 5/16" x 3 1/2" S.S. Body Bolt | 1   | \$1.38  |
| 9                         | V10159*  | Upper Stem Bushing            | 1   | \$2.51  |
| 10                        | V10163*  | FKM (viton type) Stem O-Ring  | 1   | \$2.11  |
| 11                        | V10060*  | Thrust Washer                 | 1   | \$1.53  |
| 12                        | V10151A  | Stem                          | 1   | \$4.30  |
| 13                        | V10258A* | Ball Seat                     | 2   | \$6.11  |
| 14                        | V10155*  | Ball                          | 1   | \$7.09  |
| 15                        | V10264   | FKM (viton type) Body O-Ring  | 2   | \$5.83  |
| N/S                       | V10200   | Repair Kit                    | 1   | \$27.62 |

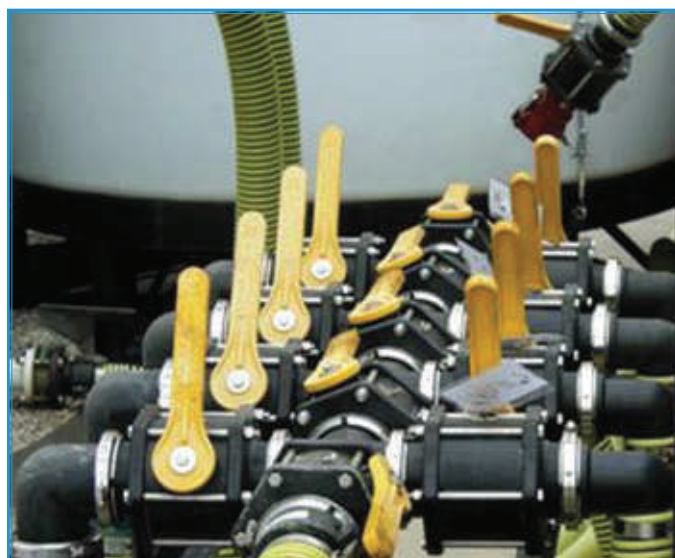
Chart 2

| REPLACEMENT PARTS MV300 |          |                              |     |         |
|-------------------------|----------|------------------------------|-----|---------|
| ITEM                    | PART NO  | DESCRIPTION                  | QTY | PRICE   |
| 1                       | MV30264  | 3" Manifold End Plate        | 2   | \$47.93 |
| 2                       | V25153   | Handle                       | 1   | \$13.18 |
| 3                       | V30254   | Body                         | 1   | \$24.31 |
| 4                       | V25121   | S.S. Handle Washer           | 1   | \$0.56  |
| 5                       | V25020   | 3/8" x 1/2" S.S. Handle Bolt | 6   | \$1.72  |
| 6                       | V20018   | 3/8" S.S. Lock Washer        | 6   | \$0.42  |
| 7                       | V20019   | 3/8" S.S. Nut                | 6   | \$1.03  |
| 8                       | V30017   | 3/8" x 5" S.S. Body Bolt     | 1   | \$3.48  |
| 9                       | V25160*  | Upper Stem Bushing           | 1   | \$4.16  |
| 10                      | V25163*  | FKM (viton type) Stem O-Ring | 1   | \$3.61  |
| 11                      | V25060*  | Thrust Washer                | 1   | \$2.11  |
| 12                      | V25151B  | Stem                         | 1   | \$13.20 |
| 13                      | V30258A* | Ball Seat                    | 2   | \$12.64 |
| 14                      | V30255*  | Ball                         | 1   | \$22.56 |
| 15                      | V30265*  | FKM (viton type) Body O-Ring | 2   | \$11.26 |
| N/S                     | V30200   | Repair Kit                   | 1   | \$76.78 |

| REPLACEMENT PARTS MV200CF |          |                              |     |         |
|---------------------------|----------|------------------------------|-----|---------|
| ITEM                      | PART NO  | DESCRIPTION                  | QTY | PRICE   |
| 1                         | V20294   | 2" Manifold End Plate        | 2   | \$15.49 |
| 2                         | V20153   | Handle                       | 1   | \$8.62  |
| 3                         | V20254   | Body                         | 1   | \$12.08 |
| 4                         | V20021   | S.S. Handle Washer           | 1   | \$0.42  |
| 5                         | V20020   | 1/4" x 1/2" S.S. Handle Bolt | 4   | \$0.84  |
| 6                         | V10118   | 3/8" S.S. Lock Washer        | 4   | \$0.42  |
| 7                         | V10119   | 3/8" S.S. Nut                | 4   | \$0.56  |
| 8                         | V10117   | 3/8" x 4 1/2" S.S. Body Bolt | 1   | \$1.38  |
| 9                         | V20159*  | Upper Stem Bushing           | 1   | \$3.06  |
| 10                        | V20163*  | FKM (viton type) Stem O-Ring | 1   | \$2.64  |
| 11                        | V20060*  | Thrust Washer                | 1   | \$2.11  |
| 12                        | V20151M  | Stem                         | 1   | \$8.62  |
| 13                        | V20258A* | Ball Seat                    | 2   | \$9.59  |
| 14                        | V20255A* | Ball                         | 1   | \$11.81 |
| 15                        | V20264*  | FKM (viton type) Body O-Ring | 2   | \$9.59  |
| N/S                       | V20200   | Repair Kit                   | 1   | \$41.44 |

| REPLACEMENT PARTS MV300CF |          |                                 |     |          |
|---------------------------|----------|---------------------------------|-----|----------|
| ITEM                      | PART NO  | DESCRIPTION                     | QTY | PRICE    |
| 1                         | V35278   | 3" Full Port Manifold End Plate | 2   | \$47.93  |
| 2                         | V25153   | Handle                          | 1   | \$13.18  |
| 3                         | V35254   | Body                            | 1   | \$33.67  |
| 4                         | V25121   | S.S. Handle Washer              | 1   | \$0.56   |
| 5                         | V25020   | 3/8" x 1/2" S.S. Handle Bolt    | 1   | \$1.72   |
| 6                         | V20018   | 3/8" S.S. Lock Washer           | 6   | \$0.42   |
| 7                         | V20019   | 3/8" S.S. Nut                   | 6   | \$1.03   |
| 8                         | V35017   | 3/8" x 6" S.S. Body Bolt        | 6   | \$4.87   |
| 9                         | V25160*  | Upper Stem Bushing              | 1   | \$4.16   |
| 10                        | V25163*  | FKM (viton type) Stem O-Ring    | 1   | \$3.61   |
| 11                        | V25060*  | Thrust Washer                   | 1   | \$2.11   |
| 12                        | V25151B  | Stem                            | 1   | \$13.20  |
| 13                        | V35258A* | Ball Seat                       | 2   | \$20.50  |
| 14                        | V35255A* | Ball                            | 1   | \$36.81  |
| 15                        | V35265*  | FKM (viton type) Body O-Ring    | 2   | \$13.76  |
| N/S                       | V35200   | Repair Kit                      | 1   | \$140.96 |

| REPLACEMENT PARTS MV220CF |          |                                 |     |         |
|---------------------------|----------|---------------------------------|-----|---------|
| ITEM                      | PART NO  | DESCRIPTION                     | QTY | PRICE   |
| 1                         | V25478   | 2" Full Port Manifold End Plate | 2   | \$18.48 |
| 2                         | V25153   | Handle                          | 1   | \$13.18 |
| 3                         | V25254   | Body                            | 1   | \$16.39 |
| 4                         | V25121   | S.S. Handle Washer              | 1   | \$0.56  |
| 5                         | V25020   | 3/8" x 1/2" S.S. Handle Bolt    | 4   | \$1.72  |
| 6                         | V20018   | 3/8" S.S. Lock Washer           | 4   | \$0.42  |
| 7                         | V20019   | 3/8" 16 SS Hex Nut              | 4   | \$1.03  |
| 8                         | V20017   | 3/8" x 4" S.S. Body Bolt        | 1   | \$1.72  |
| 9                         | V25160*  | Upper Stem Bushing              | 1   | \$4.16  |
| 10                        | V25163*  | FKM (viton type) Stem O-Ring    | 1   | \$3.61  |
| 11                        | V25060*  | Thrust Washer                   | 1   | \$2.11  |
| 12                        | V25151B  | Stem                            | 1   | \$13.20 |
| 13                        | V25258A* | Ball Seat                       | 2   | \$11.66 |
| 14                        | V25255A* | Ball                            | 1   | \$12.64 |
| 15                        | V25264*  | FKM (viton type) Body O-Ring    | 2   | \$9.81  |
| N/S                       | V25200   | Repair Kit                      | 1   | \$54.54 |



# Manifold Valves

## 2" Standard Port Manifold "Stubby" Valve

PATENTED

### FEATURES

- Stainless steel bolts.
- Glass filled polypropylene.
- Multiple design options.
- Unique patented compact design.
- Lightweight.
- Maximum operating pressure 100 P.S.I. @ 70°F. 75 P.S.I. @ 150°F.



VSMT200CF



VSF200CF

### 2" MANIFOLD STUBBY VALVES

| PART NO   | DESCRIPTION                 | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY    | PRICE   |
|-----------|-----------------------------|---------|-----------|-------------------|--------|---------|
| VSMT200CF | 2" Flange x 2" Male NPT     | 100     | 2"        | 1½"               | 24/box | \$60.11 |
| VSF200CF  | 2" Flange x 2" Male Adapter | 100     | 2"        | 1½"               | 24/box | \$61.91 |

# Manifold Valves

## 2" Full Port Manifold "Stubby" Valve

PATENTED



MVS220FP



MVS220CF



MVSF220FP

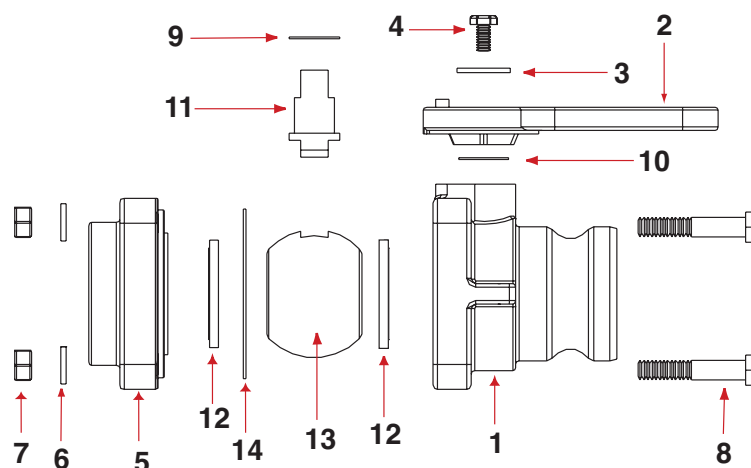


MVSMT220FP

### 2" FULL PORT MANIFOLD STUBBY VALVES

| PART NO    | DESCRIPTION                    | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY   | PRICE   |
|------------|--------------------------------|---------|-----------|-------------------|-------|---------|
| MVS220FP   | 2" FP Flange x 2" Female NPT   | 100     | 2"        | 2"                | 8/box | \$74.74 |
| MVSF220FP  | 2" FP Flange x 2" Male Adapter | 100     | 2"        | 2"                | 8/box | \$74.74 |
| MVS220CF   | 2" FP Flange x 2" FP Flange    | 100     | 2"        | 2"                | 8/box | \$74.74 |
| MVSMT220FP | 2" FP Flange x 2" Male NPT     | 100     | 2"        | 2"                | 8/box | \$74.74 |





| REPLACEMENT PARTS<br>VSF200CF - VSMT200CF - MVS220FP - MVSF220FP - MVS220CF - MVSMT220FP |          |                    |     |        |
|------------------------------------------------------------------------------------------|----------|--------------------|-----|--------|
| ITEM                                                                                     | PART NO  | DESCRIPTION        | QTY | PRICE  |
| 3                                                                                        | V20021   | Handle Washer      | 1   | \$0.42 |
| 4                                                                                        | V20020   | Handle Bolt        | 1   | \$0.84 |
| 6                                                                                        | V20018   | Lock Washer        | 4   | \$0.42 |
| 7                                                                                        | V20019   | 3/8" 16 SS Hex Nut | 4   | \$1.03 |
| 8                                                                                        | V20010SS | Body Bolt          | 4   | \$1.03 |
| 9                                                                                        | V20060*  | Upper Stem Bushing | 1   | \$2.11 |
| 10                                                                                       | V20060*  | Thrust Bearing     | 1   | \$2.11 |
| 11                                                                                       | VS20151  | Stem               | 1   | \$9.59 |

| REPLACEMENT PARTS VSF200CF-VSMT200CF |           |                                                |     |         |
|--------------------------------------|-----------|------------------------------------------------|-----|---------|
| ITEM                                 | PART NO   | DESCRIPTION                                    | QTY | PRICE   |
| 1                                    | VSMT20254 | 2" Male NPT Body (VSF200CF)                    | 1   | \$20.83 |
| 1                                    | VF20254   | 2" Male Quick Connect Body (VSMT200CF)         | 1   | \$20.83 |
| 2                                    | VS20152SH | 2" Short Handle                                | 1   | \$8.62  |
| 5                                    | VS20294   | 2" Stubby End Plate                            | 1   | \$15.49 |
| 12                                   | VS20258A* | Seat                                           | 2   | \$9.59  |
| 13                                   | VS20255*  | Ball                                           | 1   | \$10.41 |
| 14                                   | V21204*   | Body Gasket                                    | 1   | \$4.33  |
| N/S                                  | VS20200   | Repair Kit (Items with asterick* are included) | 1   | \$46.51 |



| REPLACEMENT PARTS<br>MVS220FP-MVSF220FP-MVS220CF-MVSMT220FP |            |                                                    |     |         |
|-------------------------------------------------------------|------------|----------------------------------------------------|-----|---------|
| ITEM                                                        | PART NO    | DESCRIPTION                                        | QTY | PRICE   |
| 1                                                           | VFT25254   | 2" Full Port Female NPT Body (MVS200FP)            | 1   | \$18.48 |
| 1                                                           | VF25254    | 2" Full Port Male Adapter Body (MVSF200F)          | 1   | \$17.35 |
| 1                                                           | MV25254    | 2" Full Port Manifold Body (MVS220CF & MVSMT220FP) | 1   | \$17.35 |
| 2                                                           | VS25153    | 2" Full Port Stubby Handle                         | 1   | \$13.18 |
| 5                                                           | VS25378    | 2" Stubby End Plate                                | 1   | \$18.48 |
| 5                                                           | VSMT25356  | 2" FP Stubby End Plate (MVSMT220FP)                | 1   | \$18.48 |
| 12                                                          | VS25258AR1 | Seat                                               | 2   | \$5.56  |
| 13                                                          | VS25255    | Ball                                               | 1   | \$12.64 |
| 14                                                          | V25214V    | FKM (viton type) Body Gasket (MVSMT220FP)          | 1   | \$5.40  |

# Manifold Valves

## 2" Full Port Stainless Steel Manifold "Stubby" Valve

PATENTED

### FEATURES

- Stainless steel bolts.
- Glass filled polypropylene.
- Multiple design options.
- Unique patented compact design.
- Lightweight.
- Maximum operating pressure 100 P.S.I. @ 70°F. 75 P.S.I. @ 150°F.

MANIFOLD SYSTEMS



MVS220HSFP



MVSF220HSFP

| 2" FULL PORT MANIFOLD STUBBY VALVES W/SS |                                                          |            |              |                      |     |          |
|------------------------------------------|----------------------------------------------------------|------------|--------------|----------------------|-----|----------|
| PART NO                                  | DESCRIPTION                                              | MAX<br>PSI | PIPE<br>SIZE | OPENING<br>THRU BALL | QTY | PRICE    |
| MVS220HSFP                               | 2" FP Flange x 2" FP Flange w/<br>SS Ball, Stem & Handle | 100        | 2"           | 2"                   | 1   | \$196.22 |
| MVSF220HSFP                              | 2" FP Flange x 2" Male NPT w/<br>SS Ball, Stem & Handle  | 100        | 2"           | 2"                   | 1   | \$196.22 |



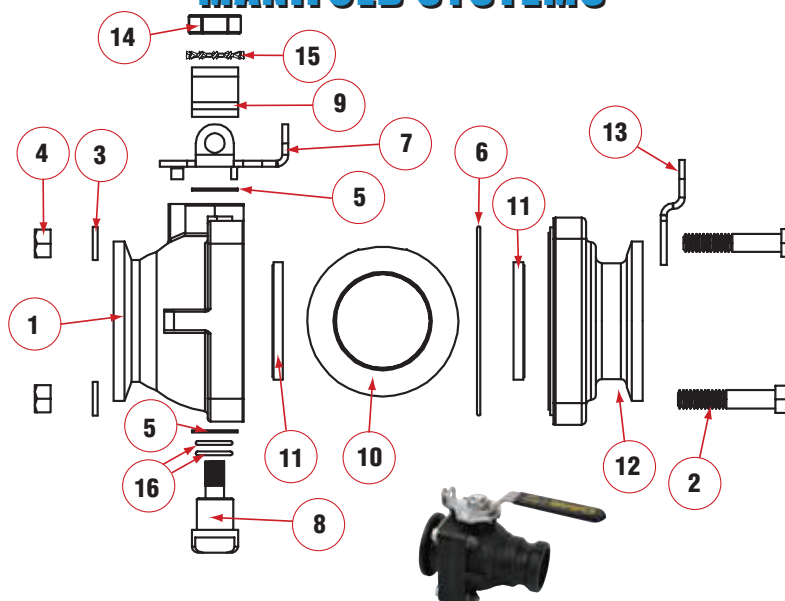
MVSMT220HSFP



| 2" FULL PORT MANIFOLD STUBBY VALVES W/SS |                                                        |            |              |                      |     |          |
|------------------------------------------|--------------------------------------------------------|------------|--------------|----------------------|-----|----------|
| PART NO                                  | DESCRIPTION                                            | MAX<br>PSI | PIPE<br>SIZE | OPENING<br>THRU BALL | QTY | PRICE    |
| MVSMT220HSFP                             | 2" FP NPT x 2" Male Flange<br>w/SS Ball, Stem & Handle | 100        | 2"           | 2"                   | 1   | \$196.22 |







### REPLACEMENT PARTS MVS220HSFP

| ITEM | PART NO    | DESCRIPTION                  | QTY | PRICE   |
|------|------------|------------------------------|-----|---------|
| 1    | MV25254    | 2" Full Port Female NPT Body | 1   | \$17.35 |
| 2    | V20010SS   | 3/8" - 16 x 2" SS Bolt       | 4   | \$1.03  |
| 3    | V20018     | 3/8" SS Lock Washer          | 4   | \$0.42  |
| 4    | V20019     | 3/8" 16 SS Hex Nut           | 4   | \$1.03  |
| 5    | V20060     | Thrust Bearing               | 2   | \$2.11  |
| 6    | V25214V    | FKM (viton type) Body Gasket | 1   | \$5.40  |
| 7    | VS20101SS  | Stainless Steel Handle Stop  | 1   | \$29.75 |
| 8    | VS20151SS  | Stainless Steel Stem         | 1   | \$39.05 |
| 9    | VS25153SS  | 2" Stainless Steel Handle    | 2   | \$30.83 |
| 10   | VS25255SS  | Stainless Steel Ball         | 1   | \$74.62 |
| 11   | VS25258AR1 | Seat                         | 1   | \$5.56  |
| 12   | VS25378    | 2" Stubby End Plate          | 1   | \$18.48 |
| 13   | VS20102SS  | Stainless Steel Handle Lock  | 1   | \$14.42 |
| 14   | VSS15020   | Stainless Steel Handle Nut   | 1   | \$2.26  |
| 15   | VS20021    | Washer                       | 1   | \$1.34  |
| 16   | VS20163    | FKM (viton type) Stem O-ring | 2   | \$1.79  |

### REPLACEMENT PARTS MVSF220HSFP

| ITEM | PART NO    | DESCRIPTION                  | QTY | PRICE   |
|------|------------|------------------------------|-----|---------|
| 1    | VF25254    | 2" FP Male Adapter Body      | 1   | \$17.35 |
| 2    | V20010SS   | 3/8" - 16 x 2" SS Bolt       | 4   | \$1.03  |
| 3    | V20018     | 3/8" SS Lock Washer          | 4   | \$0.42  |
| 4    | V20019     | 3/8" 16 SS Hex Nut           | 4   | \$1.03  |
| 5    | V20060     | Thrust Bearing               | 2   | \$2.11  |
| 6    | V25214V    | FKM (viton type) Body Gasket | 1   | \$5.40  |
| 7    | VS20101SS  | Stainless Steel Handle Stop  | 1   | \$29.75 |
| 8    | VS20151SS  | Stainless Steel Stem         | 1   | \$39.05 |
| 9    | VS25153SS  | 2" Stainless Steel Handle    | 2   | \$30.83 |
| 10   | VS25255SS  | Stainless Steel Ball         | 1   | \$74.62 |
| 11   | VS25258AR1 | Seat                         | 1   | \$5.56  |
| 12   | VS25378    | 2" Stubby End Plate          | 1   | \$18.48 |
| 13   | VS20102SS  | Stainless Steel Handle Lock  | 1   | \$14.42 |
| 14   | VSS15020   | Stainless Steel Handle Nut   | 1   | \$2.26  |
| 15   | VS20021    | Washer                       | 1   | \$1.34  |
| 16   | VS20163    | FKM (viton type) Stem O-ring | 2   | \$1.79  |



### REPLACEMENT PARTS MVSMT220HSFP

| ITEM | PART NO    | DESCRIPTION                  | QTY | PRICE   |
|------|------------|------------------------------|-----|---------|
| 1    | MV25254    | 2" Full Port Female NPT Body | 1   | \$17.35 |
| 2    | V20010SS   | 3/8" - 16 x 2" SS Bolt       | 4   | \$1.03  |
| 3    | V20018     | 3/8" SS Lock Washer          | 4   | \$0.42  |
| 4    | V20019     | 3/8" 16 SS Hex Nut           | 4   | \$1.03  |
| 5    | V20060     | Thrust Bearing               | 2   | \$2.11  |
| 6    | V25214V    | FKM (viton type) Body Gasket | 1   | \$5.40  |
| 7    | VS20101SS  | Stainless Steel Handle Stop  | 1   | \$29.75 |
| 8    | VS20151SS  | Stainless Steel Stem         | 1   | \$39.05 |
| 9    | VS25153SS  | 2" Stainless Steel Handle    | 2   | \$30.83 |
| 10   | VS25255SS  | Stainless Steel Ball         | 1   | \$74.62 |
| 11   | VS25258AR1 | Seat                         | 1   | \$5.56  |
| 12   | VSMT25356  | 2" Stubby End Plate          | 1   | \$18.48 |
| 13   | VS20102SS  | Stainless Steel Handle Lock  | 1   | \$14.42 |
| 14   | VSS15020   | Stainless Steel Handle Nut   | 1   | \$2.26  |
| 15   | VS20021    | Washer                       | 1   | \$1.34  |
| 16   | VS20163    | FKM (viton type) Stem O-ring | 2   | \$1.79  |

# Manifold Valves

## 3" Manifold "Stubby" Valve

PATENTED

### FEATURES

- Stainless steel bolts.
- Glass filled polypropylene.
- Multiple design options.
- Unique patented compact design.
- Lightweight.
- Maximum operating pressure 100 P.S.I. @ 70°F. 75 P.S.I. @ 150°F.



MVSF300



MVSF300FP



MVSMT300

### 3" MANIFOLD STUBBY VALVES

| PART NO   | DESCRIPTION                           | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY   | PRICE    |
|-----------|---------------------------------------|---------|-----------|-------------------|-------|----------|
| MVSF300   | 3" Flange x 3" Male Adapter           | 100     | 3"        | 2½"               | 6/box | \$152.77 |
| MVSF300FP | 3" Full Port Flange x 3" Male Adapter | 100     | 3"        | 3"                | 1     | \$191.26 |
| MVSMT300  | 3" Flange x 3" Male NPT               | 100     | 3"        | 2½"               | 6/box | \$159.09 |



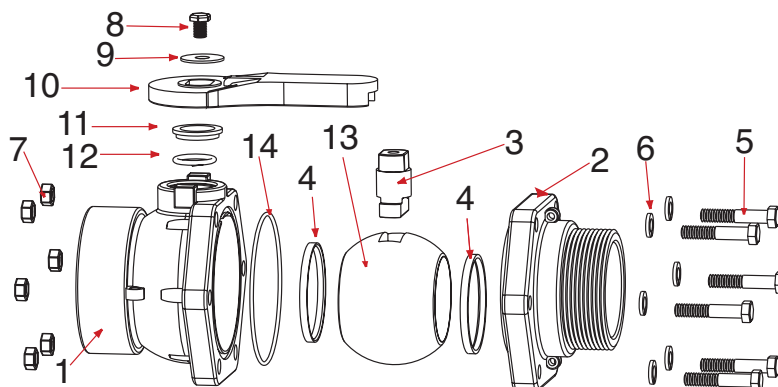
MVS300CF



MVS300CFFP

### 3" MANIFOLD STUBBY VALVES

| PART NO    | DESCRIPTION                               | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY   | PRICE    |
|------------|-------------------------------------------|---------|-----------|-------------------|-------|----------|
| MVS300CF   | 3" Flange x 3" Flange                     | 100     | 3"        | 2½"               | 1/box | \$152.77 |
| MVS300CFFP | 3" Full Port Flange x 3" Full Port Flange | 100     | 3"        | 3"                | 1/box | \$186.88 |



| REPLACEMENT PARTS<br>MVSF300-MVSMT300-MVS300CF-MVS300CFP |          |                                  |     |         |
|----------------------------------------------------------|----------|----------------------------------|-----|---------|
| ITEM                                                     | PART NO  | DESCRIPTION                      | QTY | PRICE   |
| 1                                                        | MVS30254 | 3" Stubby Body w/Manifold Flange | 1   | \$31.87 |
| 3                                                        | VS25151B | Short Stem                       | 1   | \$13.18 |
| 4                                                        | VS30258  | 3" Stubby Seat                   | 2   | \$4.45  |
| 5                                                        | V20010SS | 3/8" - 16 x 2" SS Bolt           | 6   | \$1.03  |
| 6                                                        | V20018   | 3/8" SS Lock Washer              | 6   | \$0.42  |
| 7                                                        | V20019   | 3/8" 16 SS Hex Nut               | 6   | \$1.03  |
| 8                                                        | V25020   | 3/8" x 1/2" Handle Bolt          | 1   | \$1.72  |
| 9                                                        | V25121   | Handle Washer                    | 1   | \$0.56  |
| 10                                                       | V25153   | Handle-Straight                  | 1   | \$13.18 |
| 11                                                       | V25160   | Upper Stem Bushing               | 1   | \$4.16  |
| 12                                                       | V25163   | FKM (viton type) Stem O-Ring     | 1   | \$3.61  |
| 13                                                       | VS30255  | 3" Ball                          | 1   | \$21.48 |
| 14                                                       | V30265   | FKM (viton type) Body O-Ring     | 1   | \$11.26 |

| REPLACEMENT PARTS MVSF300FP |          |                              |     |         |
|-----------------------------|----------|------------------------------|-----|---------|
| ITEM                        | PART NO  | DESCRIPTION                  | QTY | PRICE   |
| 1                           | VSF35254 | 3" FP Stubby Body            | 1   | \$50.61 |
| 2                           | VS35278  | 3" FP Stubby End Plate       | 1   | \$31.87 |
| 4                           | VS35258  | 3" Stubby Seat               | 2   | \$22.66 |
| 13                          | V35255A  | 3" Ball                      | 1   | \$36.81 |
| 14                          | V35265   | FKM (viton type) Body O-Ring | 1   | \$13.76 |

| REPLACEMENT PARTS MVSMT300 |           |                              |     |         |
|----------------------------|-----------|------------------------------|-----|---------|
| ITEM                       | PART NO   | DESCRIPTION                  | QTY | PRICE   |
| 2                          | VSMT30264 | 3" Stubby Male NPT End Plate | 1   | \$33.06 |

| REPLACEMENT PARTS MVS300CF |         |                     |     |         |
|----------------------------|---------|---------------------|-----|---------|
| ITEM                       | PART NO | DESCRIPTION         | QTY | PRICE   |
| 2                          | VS30278 | 3" Stubby End Plate | 1   | \$34.01 |

| REPLACEMENT PARTS MVSF300 |          |                       |     |         |
|---------------------------|----------|-----------------------|-----|---------|
| ITEM                      | PART NO  | DESCRIPTION           | QTY | PRICE   |
| 2                         | VSF30264 | 3" Stubby F End Plate | 1   | \$27.06 |

| REPLACEMENT PARTS MVS300CFP |          |                              |     |         |
|-----------------------------|----------|------------------------------|-----|---------|
| ITEM                        | PART NO  | DESCRIPTION                  | QTY | PRICE   |
| 1                           | MVS35254 | 3" FP Stubby Body            | 1   | \$33.94 |
| 2                           | VS35278  | 3" FP Stubby End Plate       | 1   | \$31.87 |
| 4                           | VS35258  | 3" Stubby Seat               | 2   | \$22.66 |
| 13                          | V35255A  | 3" Ball                      | 1   | \$36.81 |
| 14                          | V35265   | FKM (viton type) Body O-Ring | 1   | \$13.76 |

# Manifold Valves

## 3" Full Port Stainless Steel Manifold "Stubby" Valve

PATENTED

### FEATURES

- Stainless steel bolts.
- Glass filled polypropylene.
- Multiple design options.
- Unique patented compact design.
- Lightweight.
- Maximum operating pressure 100 P.S.I. @ 70°F. 75 P.S.I. @ 150°F.



MVS300HSFP

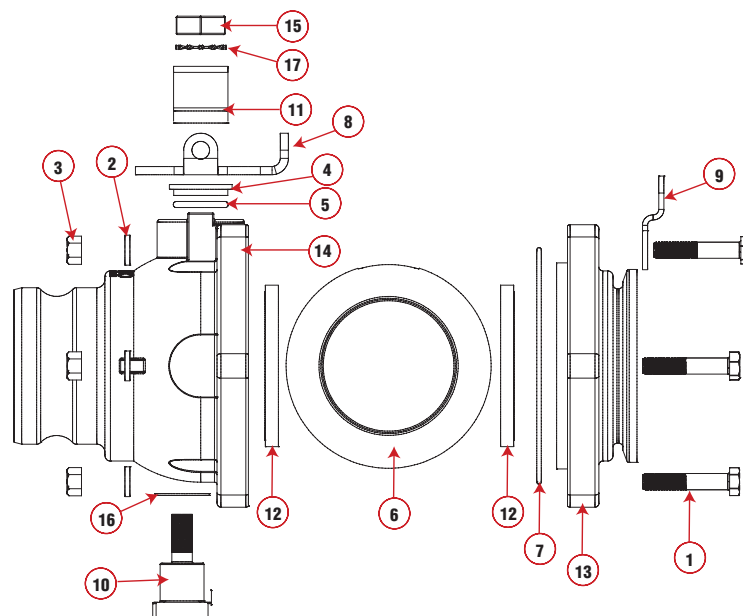


MVSF300HSFP



MVSMT300HSFP

| 3" FULL PORT MANIFOLD STUBBY VALVES W/SS |                                                            |            |              |                      |      |          |
|------------------------------------------|------------------------------------------------------------|------------|--------------|----------------------|------|----------|
| PART NO                                  | DESCRIPTION                                                | MAX<br>PSI | PIPE<br>SIZE | OPENING<br>THRU BALL | QTY  | PRICE    |
| MVS300HSFP                               | 3" FP Flange x 3" FP Flange<br>w/SS Ball, Stem & Handle    | 100        | 3"           | 3"                   | 1/bx | \$367.71 |
| MVSF300HSFP                              | 3" FP Flange x 3" Male Adapter<br>w/SS Ball, Stem & Handle | 100        | 3"           | 3"                   | 1/bx | \$367.71 |
| MVSMT300HSFP                             | 3" FP Flange x 3" Male NPT<br>w/SS Ball, Stem & Handle     | 100        | 3"           | 3"                   | 1/bx | \$367.71 |



| REPLACEMENT PARTS<br>MVSF300HSFP-MVS300HSFP |           |                             |     |          |
|---------------------------------------------|-----------|-----------------------------|-----|----------|
| ITEM                                        | PART NO   | DESCRIPTION                 | QTY | PRICE    |
| 1                                           | V20010SS  | 3/8" - 16 x 2" SS Bolt      | 6   | \$1.03   |
| 2                                           | V20018    | 3/8" SS Lock Washer         | 6   | \$0.42   |
| 3                                           | V20019    | 3/8" 16 SS Hex Nut          | 6   | \$1.03   |
| 4                                           | V25160    | Upper Stem Bushing          | 1   | \$4.16   |
| 5                                           | V25163    | FKM(viton type) O-Ring      | 1   | \$3.61   |
| 6                                           | V35255ASS | Stainless Steel Ball        | 1   | \$131.84 |
| 7                                           | V35265    | FKM(viton type) Body O-Ring | 1   | \$13.76  |
| 8                                           | VS30101SS | SS Handle Stop              | 1   | \$31.93  |
| 9                                           | VS30102SS | SS Handle Lock              | 1   | \$11.85  |
| 10                                          | VS30151SS | SS Stem                     | 1   | \$52.53  |
| 11                                          | VS30153SS | Stainless Steel Handle      | 1   | \$44.29  |
| 12                                          | VS35258   | 3" Stubby Seat              | 2   | \$22.66  |
| 13                                          | VS35278   | 3" FP Stubby End Plate      | 1   | \$31.87  |
| 15                                          | VSS30020  | Stainless Steel Handle Nut  | 1   | \$4.22   |
| 16                                          | V25060    | Thrust Bearing              | 1   | \$2.11   |
| 17                                          | VS30021   | Washer                      | 1   | \$4.22   |

| REPLACEMENT PARTS MVSF300HSFP |          |                   |     |         |
|-------------------------------|----------|-------------------|-----|---------|
| ITEM                          | PART NO  | DESCRIPTION       | QTY | PRICE   |
| 14                            | VSF35254 | 3" FP Stubby Body | 1   | \$50.61 |

| REPLACEMENT PARTS MVS300HSFP |          |                   |     |         |
|------------------------------|----------|-------------------|-----|---------|
| ITEM                         | PART NO  | DESCRIPTION       | QTY | PRICE   |
| 14                           | MVS35254 | 3" FP Stubby Body | 1   | \$33.94 |

| REPLACEMENT PARTS MVSMT300HSFP |           |                   |     |         |
|--------------------------------|-----------|-------------------|-----|---------|
| ITEM                           | PART NO   | DESCRIPTION       | QTY | PRICE   |
| 14                             | VSMT35256 | 3" FP Stubby Body | 1   | \$46.30 |



# 3-Way Manifold Ball Valves

## FEATURES

- Stainless steel bolts.
- Precision molded in polypropylene. Polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation.
- The valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- PTFE self-lubricating stem bushings and seats cannot stick or bind.
- Maximum operating pressure 100 P.S.I.
- FKM (viton type) seals.



MV100BL

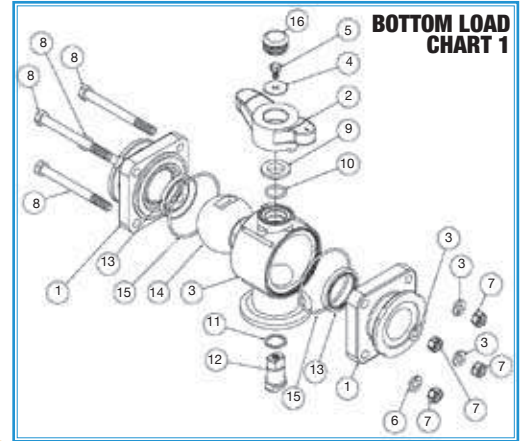
MV200BL

MV220BL

### 4 BOLT BOTTOM LOAD MANIFOLD VALVES

| PART NO | DESCRIPTION                         | MAX PSI | FLANGE SIZE | OPENING THRU BALL | HANDLE TYPE | QTY    | PRICE    |
|---------|-------------------------------------|---------|-------------|-------------------|-------------|--------|----------|
| MV100BL | 1" Manifold Flanged Valve           | 100     | 1"          | 1"                | T           | 18/box | \$57.29  |
| MV200BL | 2" Manifold Flanged Valve           | 100     | 2"          | 1½"               | T           | 12/box | \$74.09  |
| MV220BL | 2" Full Port Manifold Flanged Valve | 100     | 2"          | 2"                | Straight    | 8/box  | \$117.30 |

**BOTTOM LOAD:** Directional flow right or left. Valve can be turned off to stop flow.



MV100SL

MV200SL

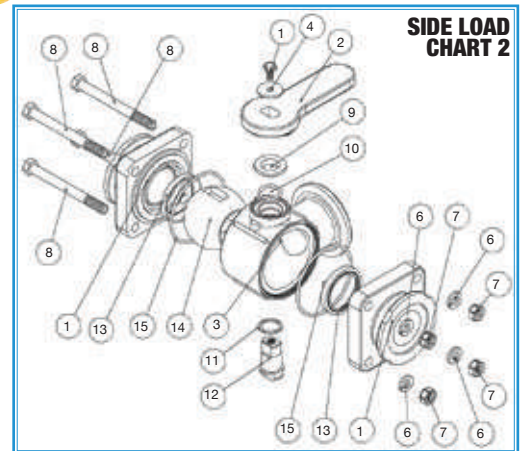
MV220SL

### 4 BOLT SIDE LOAD MANIFOLD VALVES

| PART NO   | DESCRIPTION                         | MAX PSI | FLANGE SIZE | OPENING THRU BALL | HANDLE TYPE | QTY    | PRICE    |
|-----------|-------------------------------------|---------|-------------|-------------------|-------------|--------|----------|
| MV100SL   | 1" Manifold Flanged Valve           | 100     | 1"          | 1"                | T           | 18/box | \$57.29  |
| MV200SL   | 2" Manifold Flanged Valve           | 100     | 2"          | 1½"               | Straight    | 10/box | \$74.09  |
| MV220SL   | 2" Full Port Manifold Flanged Valve | 100     | 2"          | 2"                | Straight    | 8/box  | \$117.30 |
| MVT220SL* | 2" Full Port Manifold Flanged Valve | 100     | 2"          | 2"                | T           | 8/box  | \$117.30 |

\* Non-Stock Item

**SIDE LOAD:** Directional flow right or left. Valve cannot be turned off.



Accessories for valves on page 12. If not listed, no optional handle is available.



MV300BL

### 6 BOLT BOTTOM LOAD MANIFOLD VALVES

| PART NO | DESCRIPTION               | MAX PSI | FLANGE SIZE | OPENING THRU BALL | HANDLE TYPE | QTY   | PRICE    |
|---------|---------------------------|---------|-------------|-------------------|-------------|-------|----------|
| MV300BL | 3" Manifold Flanged Valve | 100     | 3"          | 3"                | Straight    | 6/box | \$314.45 |

### REPLACEMENT PARTS MV300BL

| ITEM | PART NO   | DESCRIPTION                  | QTY | PRICE   |
|------|-----------|------------------------------|-----|---------|
| 1    | MV35278   | 3" Manifold End Plate        | 2   | \$50.06 |
| 2    | V25353B   | Straight Handle              | 1   | \$13.18 |
| 3    | MV35254BL | 3" Full Port Manifold Body   | 1   | \$58.40 |
| 4    | V25121    | Handle Washer                | 1   | \$0.56  |
| 5    | V25020    | Handle Bolt                  | 1   | \$1.72  |
| 6    | V20018    | Lock Washer                  | 4   | \$0.42  |
| 7    | V20019    | ¾" 16 SS Hex Nut             | 4   | \$1.03  |
| 8    | V25017    | Body Bolt                    | 4   | \$2.36  |
| 9    | V25160    | Upper Stem Bushing           | 1   | \$4.16  |
| 10   | V25163    | FKM (viton type) Stem O-Ring | 1   | \$3.61  |
| 11   | V25060    | Thrust Bushing               | 1   | \$2.11  |
| 12   | V25151B   | Stem                         | 1   | \$13.20 |
| 13   | V35258A   | Seat                         | 2   | \$20.50 |
| 14   | V35255BL  | Bottom Load Ball             | 1   | \$15.42 |
| 15   | V35264BL  | Body O-Ring                  | 2   | \$9.88  |

## BOTTOM LOAD - Chart 1

| REPLACEMENT PARTS MV100BL |          |                              |     |         |
|---------------------------|----------|------------------------------|-----|---------|
| ITEM                      | PART NO  | DESCRIPTION                  | QTY | PRICE   |
| 1                         | VE10278A | 1" Manifold End Plate        | 2   | \$8.92  |
| 2                         | V10353TB | Handle                       | 1   | \$4.30  |
| 3                         | MV10354B | 1" Manifold Body             | 1   | \$18.76 |
| 4                         | V07021A  | Handle Washer                | 1   | \$0.42  |
| 5                         | V10020A  | Handle Bolt                  | 1   | \$1.03  |
| 6                         | V10118   | Lock Washer                  | 4   | \$0.42  |
| 7                         | V10119   | Body Nut                     | 4   | \$0.56  |
| 8                         | V10117   | Body Bolt                    | 4   | \$1.38  |
| 9                         | V10159   | Upper Stem Bushing           | 1   | \$2.51  |
| 10                        | V10163   | FKM (viton type) Stem O-Ring | 1   | \$2.11  |
| 11                        | V10060   | Thrust Bushing               | 2   | \$1.53  |
| 12                        | V10151A  | Stem                         | 1   | \$4.30  |
| 13                        | VE10258A | Seat                         | 2   | \$9.93  |
| 14                        | V10355B  | Bottom Load Ball             | 1   | \$7.09  |
| 15                        | VE10264  | Body O-Ring                  | 2   | \$6.05  |
| 16                        | V20353C  | Handle Cap                   | 1   | \$2.11  |

## SIDE LOAD - Chart 2

| REPLACEMENT PARTS MV100SL |          |                              |     |         |
|---------------------------|----------|------------------------------|-----|---------|
| ITEM                      | PART NO  | DESCRIPTION                  | QTY | PRICE   |
| 1                         | VE10278A | 1" Manifold End Plate        | 2   | \$8.92  |
| 2                         | V10353TS | T Handle                     | 1   | \$4.30  |
| 3                         | MV10354S | 1" Manifold Body             | 1   | \$18.76 |
| 4                         | V07021A  | Handle Washer                | 1   | \$0.42  |
| 5                         | V10020A  | Handle Bolt                  | 1   | \$1.03  |
| 6                         | V10118   | Lock Washer                  | 4   | \$0.42  |
| 7                         | V10119   | Body Nut                     | 4   | \$0.56  |
| 8                         | V10117   | Body Bolt                    | 4   | \$1.38  |
| 9                         | V10159   | Upper Stem Bushing           | 1   | \$2.51  |
| 10                        | V10163   | FKM (viton type) Stem O-Ring | 1   | \$2.11  |
| 11                        | V10060   | Thrust Bushing               | 1   | \$1.53  |
| 12                        | V10151A  | Stem                         | 1   | \$4.30  |
| 13                        | VE10258A | Seat                         | 2   | \$9.93  |
| 14                        | V10355S  | Side Load Ball               | 1   | \$7.09  |
| 15                        | VE10264  | Body O-Ring                  | 2   | \$6.05  |
| 16                        | V20353C  | Handle Cap                   | 1   | \$2.11  |

| REPLACEMENT PARTS MV200BL |          |                              |     |         |
|---------------------------|----------|------------------------------|-----|---------|
| ITEM                      | PART NO  | DESCRIPTION                  | QTY | PRICE   |
| 1                         | V20394   | 2" Manifold End Plate        | 2   | \$12.58 |
| 2                         | V20353TB | T Handle                     | 1   | \$8.62  |
| 3                         | MV20354B | 2" Manifold Body             | 1   | \$26.25 |
| 4                         | V20021   | Handle Washer                | 1   | \$0.42  |
| 5                         | V20020   | Handle Bolt                  | 1   | \$0.84  |
| 6                         | V20018   | Lock Washer                  | 4   | \$0.42  |
| 7                         | V20019   | 3/8" 16 SS Hex Nut           | 4   | \$1.03  |
| 8                         | V20017   | Body Bolt                    | 4   | \$1.72  |
| 9                         | V20159   | Upper Stem Bushing           | 1   | \$3.06  |
| 10                        | V20163   | FKM (viton type) Stem O-Ring | 1   | \$2.64  |
| 11                        | V20060   | Thrust Bushing               | 1   | \$2.11  |
| 12                        | V20151M  | Stem                         | 1   | \$8.62  |
| 13                        | VE20258A | Seat                         | 2   | \$10.43 |
| 14                        | V20355B  | Bottom Load Ball             | 1   | \$11.81 |
| 15                        | VE20264  | Body O-Ring                  | 2   | \$6.03  |
| 16                        | V20353C  | Handle Cap                   | 1   | \$2.11  |

| REPLACEMENT PARTS MV200SL |          |                              |     |         |
|---------------------------|----------|------------------------------|-----|---------|
| ITEM                      | PART NO  | DESCRIPTION                  | QTY | PRICE   |
| 1                         | V20394   | 2" Manifold End Plate        | 2   | \$12.58 |
| 2                         | V20153SH | Straight Handle              | 1   | \$8.62  |
| 3                         | MV20354S | 2" Manifold Body             | 1   | \$26.25 |
| 4                         | V20021   | Handle Washer                | 1   | \$0.42  |
| 5                         | V20020   | Handle Bolt                  | 1   | \$0.84  |
| 6                         | V20018   | Lock Washer                  | 4   | \$0.42  |
| 7                         | V20019   | 3/8" 16 SS Hex Nut           | 4   | \$1.03  |
| 8                         | V20017   | Body Bolt                    | 4   | \$1.72  |
| 9                         | V20159   | Upper Stem Bushing           | 1   | \$3.06  |
| 10                        | V20163   | FKM (viton type) Stem O-Ring | 1   | \$2.64  |
| 11                        | V20060   | Thrust Bushing               | 1   | \$2.11  |
| 12                        | V20151M  | Stem                         | 1   | \$8.62  |
| 13                        | VE20258A | Seat                         | 2   | \$10.43 |
| 14                        | V20355S  | Side Load Ball               | 1   | \$11.81 |
| 15                        | VE20264  | Body O-Ring                  | 2   | \$6.03  |

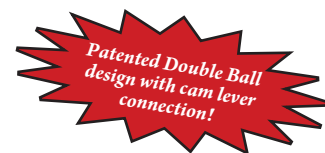
| REPLACEMENT PARTS MV220BL |          |                              |     |         |
|---------------------------|----------|------------------------------|-----|---------|
| ITEM                      | PART NO  | DESCRIPTION                  | QTY | PRICE   |
| 1                         | V25378   | 2" Manifold End Plate        | 2   | \$18.48 |
| 2                         | V25353B  | Straight Handle              | 1   | \$13.18 |
| 2                         | V25353TB | T Handle                     | 1   | \$13.18 |
| 3                         | MV25354B | 2" Manifold Body             | 1   | \$26.25 |
| 4                         | V25121   | Handle Washer                | 1   | \$0.56  |
| 5                         | V25020   | Handle Bolt                  | 1   | \$1.72  |
| 6                         | V20018   | Lock Washer                  | 4   | \$0.42  |
| 7                         | V20019   | 3/8" 16 SS Hex Nut           | 4   | \$1.03  |
| 8                         | V25017   | Body Bolt                    | 4   | \$2.36  |
| 9                         | V25160   | Upper Stem Bushing           | 1   | \$4.16  |
| 10                        | V25163   | FKM (viton type) Stem O-Ring | 1   | \$3.61  |
| 11                        | V25060   | Thrust Bushing               | 1   | \$2.11  |
| 12                        | V25151B  | Stem                         | 1   | \$13.20 |
| 13                        | V25258   | Seat                         | 2   | \$11.66 |
| 14                        | V25355B  | Bottom Load Ball             | 1   | \$15.41 |
| 15                        | V25264   | Body O-Ring                  | 2   | \$9.81  |

| REPLACEMENT PARTS MV220SL & MVT220SL |          |                              |     |         |
|--------------------------------------|----------|------------------------------|-----|---------|
| ITEM                                 | PART NO  | DESCRIPTION                  | QTY | PRICE   |
| 1                                    | V25378   | 2" Manifold End Plate        | 2   | \$18.48 |
| 2                                    | V25153SH | Straight Handle              | 1   | \$13.18 |
| 2                                    | V25353TS | T Handle (MVT220SL)          | 1   | \$13.18 |
| 3                                    | MV25354S | 2" Manifold Body             | 1   | \$26.25 |
| 4                                    | V25121   | Handle Washer                | 1   | \$0.56  |
| 5                                    | V25020   | Handle Bolt                  | 1   | \$1.72  |
| 6                                    | V20018   | Lock Washer                  | 4   | \$0.42  |
| 7                                    | V20019   | 3/8" 16 SS Hex Nut           | 4   | \$1.03  |
| 8                                    | V25017   | Body Bolt                    | 4   | \$2.36  |
| 9                                    | V25160   | Upper Stem Bushing           | 1   | \$4.16  |
| 10                                   | V25163   | FKM (viton type) Stem O-Ring | 1   | \$3.61  |
| 11                                   | V25060   | Thrust Bushing               | 1   | \$2.11  |
| 12                                   | V25151B  | Stem                         | 1   | \$13.20 |
| 13                                   | V25258   | Seat                         | 2   | \$11.66 |
| 14                                   | V25355S  | Side Load Ball               | 1   | \$15.41 |
| 15                                   | V25264   | Body O-Ring                  | 2   | \$9.81  |

# Manifold Dry Disconnect

## FEATURES

- Lightweight.
- Unrestricted 1½" flow.
- Minimal fluid spillage.
- Easy to use.
- Economical.
- Reduces risk of exposure.
- Wide range of chemical resistance.
- Cannot be uncoupled in open position.
- Handles cannot be opened after male and female are separated.
- 100 P.S.I. maximum operating pressure.



MALE

FEMALE

*Note: Male & female sold separately. Replacement parts for manifold Dry-Mate on page 89.*

## MANIFOLD DRY DISCONNECT

| PART NO  | DESCRIPTION                | MAX PSI | FLANGE SIZE | OPENING THRU BALL | QTY | PRICE    |
|----------|----------------------------|---------|-------------|-------------------|-----|----------|
| DM200ACF | 2" Flanged Male Dry-Mate   | 100     | 2"          | 1½"               | 1   | \$232.37 |
| DM200DCF | 2" Flanged Female Dry-Mate | 100     | 2"          | 1½"               | 1   | \$248.38 |

# Polypropylene Inductors

## FEATURES

- Threaded or manifold ends.
- Glass filled polypropylene.
- 1½" & 2" sizes available.

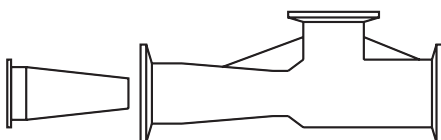


MHV200  
MHV220A



HV150  
HV200

Each venturi comes in two pieces:

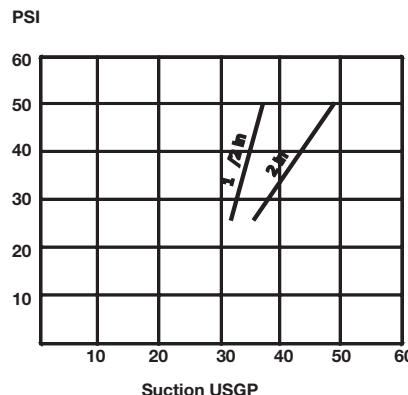


**NOTE:** The venturi is designed for use with a volume pump. Typical volumes and pressures used to operate the venturi would be in the 80 to 240 US GPM range at pressures from 26 to 52 P.S.I.

## POLY INDUCTORS

| PART NO | DESCRIPTION                            | PRESSURE AT PUMP | VOLUME DRAW* | OPENING SIZE | QTY | PRICE    |
|---------|----------------------------------------|------------------|--------------|--------------|-----|----------|
| HV150   | 1½" MPT Poly Venturi                   | 50 PSI           | 37 GPM       | 5/16"        | 1   | \$116.10 |
| HV200   | 2" MPT Poly Venturi                    | 50 PSI           | 49 GPM       | 7/16"        | 1   | \$116.10 |
| MHV200  | 2" Manifold Poly Venturi with 1½" Port | 50 PSI           | 37 GPM       | 5/16"        | 1   | \$116.10 |
| MHV220A | 2" FP Manifold Poly Venturi            | 50 PSI           | 49 GPM       | 9/16"        | 1   | \$128.34 |

\*Note: US GPM. Tests done with water at ambient temperature. Pump used for test was a 2" Banjo (5 vane impeller) driven by a 5.5 hp Honda gas motor. Performance may vary depending on pump used & product being pumped.



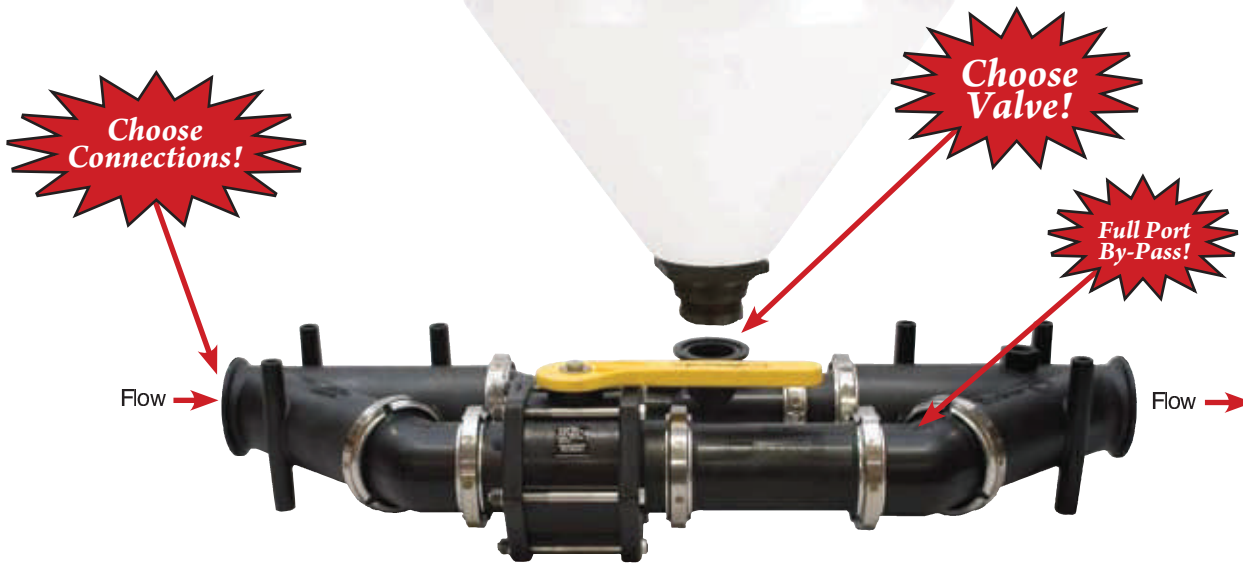
# Manifold Inductor System

## FEATURES

- Installed after pump; suction completely empties inductor tank.
- Keeps tank free of chemicals.
- 2" & 3" full port flow.
- Easy assembly/installation with manifold connections.

**\*Note: Tank not included.**

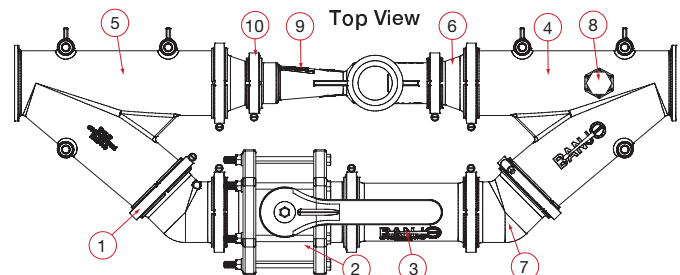
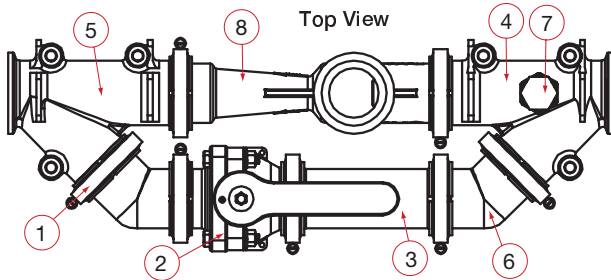
**Draws wettable powders or liquids from inductor tank for thorough chemical mixing!**



## MANIFOLD INDUCTOR SYSTEM

| PART NO | DESCRIPTION                            | QTY | PRICE    |
|---------|----------------------------------------|-----|----------|
| MIS220  | 2" Full Port Flange x Flange-Assembled | 1   | \$530.23 |
| MIS300  | 3" Flange x Flange-Assembled           | 1   | \$923.62 |

Flanged fittings, clamps & gaskets on page 75.



## REPLACEMENT PARTS MIS220

| ITEM | PART NO   | DESCRIPTION                                   | QTY | PRICE    |
|------|-----------|-----------------------------------------------|-----|----------|
| 1    | FC220     | 220 Series Worm Screw Clamp                   | 10  | \$12.52  |
| 2    | MVS220CF  | 2" FP Flange x 2" FP Flange                   | 1   | \$74.74  |
| 3    | M220CPG6  | 2" x 2" Full Port Flange x 6"                 | 1   | \$18.40  |
| 4    | M220YG45  | 2" Full Port 45° Y Flange w/ 3/4" gauge port* | 1   | \$69.42  |
| 5    | M220Y45   | 2" Full Port 45° Y Flange                     | 1   | \$64.02  |
| 6    | M220CPG45 | 2" Full Port 45° Coupling                     | 2   | \$15.80  |
| 7    | PLUG075   | 3/4" Pipe Plug                                | 1   | \$2.78   |
| 8    | MHV220A   | 2" Full Port MPT Poly Venturi                 | 1   | \$128.34 |
| N/S  | 200G      | 2" EPDM Coupling Gasket                       | 10  | \$1.06   |

Note: \*Gauge not included.

## REPLACEMENT PARTS MIS300

| ITEM | PART NO    | DESCRIPTION                                   | QTY | PRICE    |
|------|------------|-----------------------------------------------|-----|----------|
| 1    | FC300      | 300 Series Worm Screw Clamp                   | 7   | \$17.26  |
| 2    | MV301CF    | 3" FP Flange x 3" FP Flange                   | 1   | \$196.35 |
| 3    | M300CPG7   | 3" x 3" Full Port Flange x 7"                 | 1   | \$18.20  |
| 4    | M300YG45   | 3" Full Port 45° Y Flange w/ 3/4" gauge port* | 1   | \$121.86 |
| 5    | M300Y45    | 3" Full Port 45° Y Flange                     | 1   | \$116.63 |
| 6    | M300220CPG | 3" x 2" Full Port Reducer Flange              | 1   | \$33.97  |
| 7    | M300CPG45  | 3" Full Port 45° Coupling                     | 2   | \$64.64  |
| 8    | PLUG075    | 3/4" Pipe Plug                                | 1   | \$2.78   |
| 9    | MHV220A    | 2" Full Port MPT Poly Venturi                 | 1   | \$128.34 |
| 10   | FC220      | 220 Series Worm Screw Clamp                   | 3   | \$12.52  |
| N/S  | 200G       | 2" EPDM Coupling Gasket                       | 3   | \$1.06   |
| N/S  | 300G       | 3" EPDM Coupling Gasket                       | 7   | \$1.45   |



# Flow Meters

## FEATURES

- Displays overall total volume & batch total volume!
- Flow rate allows for Gallons or Liters Per Minute.
- The display reads 6 digits for Rate, 8 digits for Total and 1 decimal place reading in tenths.
- Magnetic style meter with stainless steel electrodes.
- Self calibrating meter.
- Measures water and most conductive liquids.
- Easy to change six (6) AA batteries.
- No moving parts to fail during use.
- Glass-reinforced polypropylene.
- Temperature range from 0°F to 150°F.
- Accuracy is 99% from 2 to 110 GPM for 1".
- Accuracy is 99% from 6 to 300 GPM for 2".
- Accuracy is 99% from 14 to 670 GPM for 3".
- There are 3 photoeyes located on the face of the flowmeter.

Note: These are not push buttons, to activate you must hold your finger over the photoeye for 2-4 seconds.



FM100

**110 GPM!**

**670 GPM!**



MFM300



MFM100

**300 GPM!**



MFM220

| FLOW METERS |                                    |     |            |
|-------------|------------------------------------|-----|------------|
| PART NO     | DESCRIPTION                        | QTY | PRICE      |
| FM100       | 1" Full Port Female NPT Flow Meter | 1   | \$1,117.87 |
| MFM100      | 1" Full Port Manifold Flow Meter   | 1   | \$1,117.87 |
| MFM220      | 2" Full Port Manifold Flow Meter   | 1   | \$1,270.18 |
| MFM300      | 3" Full Port Manifold Flow Meter   | 1   | \$1,594.13 |

Note: It is recommended to have at least 24 inches of straight pipe before and after the flow meter.



Note: Please see Flange Clamps and Gaskets page 75.



# Sweeps

## FEATURES

- Direct replacement for standard 90° flanged couplings.



M200SWP90



M220200SWP90



M220ASWP90



M220BRBSWP90



M220MPTSWP90



M220SWP90



M300ASWP90



M300MPTSWP90



M300SWP90



M300ASWPG90



M300MPTSWPG90



M300SWPG90

| SWEEPS       |                                             |     |         |
|--------------|---------------------------------------------|-----|---------|
| PART NO      | DESCRIPTION                                 | QTY | PRICE   |
| M200SWP90    | 2" Flange x Flange Sweep                    | 1   | \$14.21 |
| M220ASWP90   | 2" Full Port Flange x Male Adapter Sweep    | 1   | \$14.44 |
| M220BRBSWP90 | 2" Full Port Flange x Hose Shank Sweep      | 1   | \$34.07 |
| M220MPTSWP90 | 2" Full Port Flange x Male NPT Thread Sweep | 1   | \$14.44 |
| M220SWP90    | 2" Full Port Flange x Flange Sweep          | 1   | \$14.44 |
| M220200SWP90 | 2" Full Port Flange x 2" Flange Sweep       | 1   | \$15.35 |
| M300ASWP90   | 3" Flange x Male Adapter Sweep              | 1   | \$66.24 |
| M300MPTSWP90 | 3" Flange x Male NPT Thread Sweep           | 1   | \$66.24 |
| M300SWP90    | 3" Flange x Flange Sweep                    | 1   | \$66.24 |

| SWEEPS w/Gauge Port |                                                      |     |         |
|---------------------|------------------------------------------------------|-----|---------|
| PART NO             | DESCRIPTION                                          | QTY | PRICE   |
| M300ASWPG90         | 3" Flange x Male Adapter Sweep w/ 1/4" gauge port    | 1   | \$66.24 |
| M300MPTSWPG90       | 3" Flange x Male NPT Thread Sweep w/ 1/4" gauge port | 1   | \$66.24 |
| M300SWPG90          | 3" Flange x Flange Sweep w/ 1/4" gauge port          | 1   | \$66.24 |

# Boom Nozzle Pipe Adapter

## FEATURES

- Eliminates having to thread pipe.
- Quick and easy assembly.
- No welding necessary.
- 360° orientation.



### BOOM NOZZLE PIPE ADAPTER

| PART NO | DESCRIPTION                 | QTY | PRICE   |
|---------|-----------------------------|-----|---------|
| M100PA  | 1" Flanged Pipe Adapter     | 1   | \$43.20 |
| M100PAC | 1" Flanged Pipe Adapter Cap | 1   | \$41.14 |
| M100PAT | 1" Flanged Pipe Adapter Tee | 1   | \$52.82 |

# Manifold Fittings



### MANIFOLD SWIVEL

| PART NO | DESCRIPTION                         | MAX PSI | QTY | PRICE   |
|---------|-------------------------------------|---------|-----|---------|
| MSW220  | 2" Full Port Manifold Flange Swivel | 75      | 1   | \$36.45 |

### FLANGE x PVC GLUE SOCKET FITTING

| PART NO | DESCRIPTION                                               | QTY | PRICE   |
|---------|-----------------------------------------------------------|-----|---------|
| M101GSA | 1" Manifold Flange x 1" PVC Glue Socket Fitting           | 1   | \$8.39  |
| M221GSA | 2" Manifold Full Port Flange x 2" PVC Glue Socket Fitting | 1   | \$13.20 |
| M301GSA | 3" Manifold Full Port Flange x 3" PVC Glue Socket Fitting | 1   | \$20.71 |



### FLANGED POLY CHECK VALVES

| PART NO | DESCRIPTION                           | PSI | FLOW   | QTY | PRICE   |
|---------|---------------------------------------|-----|--------|-----|---------|
| MCV100  | 1" Flanged Poly Check Valve           | 150 | 1"     | 1   | \$16.37 |
| MCV200  | 2" Flanged Poly Check Valve           | 150 | 1 1/2" | 1   | \$21.18 |
| MCV221  | 2" Full Port Flanged Poly Check Valve | 150 | 2"     | 1   | \$27.91 |
| MCV300  | 3" Flanged Poly Check Valve           | 150 | 3"     | 1   | \$42.49 |

### FLANGE x SOCKET WELD - 316SS

| PART NO      | DESCRIPTION                                           | QTY | PRICE    |
|--------------|-------------------------------------------------------|-----|----------|
| M100SWFSS    | 1" Flange x 1" Socket Weld Fitting                    | 1   | \$23.33  |
| M104SWFSS    | 1" Flange x 1" Socket Weld Fitting x 4"               | 1   | \$112.17 |
| M200SWFSS    | 2" Flange x 2" Socket Weld Fitting                    | 1   | \$73.34  |
| M220SWFSS    | 2" Full Port Flange x 2" Socket Weld Fitting          | 1   | \$70.05  |
| M220375SWFSS | 2" Full Port Flange x 2" Socket Weld Fitting x 3 3/4" | 1   | \$111.94 |
| M300SWFSS    | 3" Flange x 3" Socket Weld Fitting                    | 1   | \$116.72 |
| M300375SWFSS | 3" Flange x 3" Socket Weld Fitting x 3 3/4"           | 1   | \$201.49 |





| FLANGED COUPLINGS |                                    |     |         |
|-------------------|------------------------------------|-----|---------|
| PART NO           | DESCRIPTION                        | QTY | PRICE   |
| M100CPG           | 1" x 1" Flange                     | 10  | \$4.87  |
| M200CPG           | 2" x 2" Flange                     | 1   | \$12.82 |
| M220CPG           | 2" x 2" Full Port Flange           | 1   | \$14.41 |
| M220CPG6          | 2" x 2" Full Port Flange x 6" Long | 1   | \$18.40 |
| M300CPG           | 3" x 3" Full Port Flange x 4" Long | 1   | \$16.98 |
| M300CPG7          | 3" x 3" Full Port Flange x 7" Long | 1   | \$18.20 |



| FLANGED REDUCER COUPLINGS |                                  |     |         |
|---------------------------|----------------------------------|-----|---------|
| PART NO                   | DESCRIPTION                      | QTY | PRICE   |
| M200100CPG                | 2" Port x 1" Reducer Flange      | 10  | \$14.56 |
| M220100CPG                | 2" Full Port x 1" Reducer Flange | 1   | \$14.56 |
| M220200CPG                | 2" Full Port x 2" Reducer Flange | 1   | \$14.56 |
| M300200CPG                | 3" x 2" Port Reducer Flange      | 1   | \$33.97 |
| M300220CPG                | 3" x 2" Full Port Reducer Flange | 1   | \$33.97 |



| 45° FLANGED COUPLINGS |                              |     |         |
|-----------------------|------------------------------|-----|---------|
| PART NO               | DESCRIPTION                  | QTY | PRICE   |
| M100CPG45             | 1" x 1" 45° Flange           | 10  | \$10.10 |
| M200CPG45             | 2" x 2" 45° Flange           | 10  | \$13.12 |
| M220CPG45             | 2" x 2" 45° Full Port Flange | 1   | \$15.80 |
| M300CPG45             | 3" x 3" 45° Full Port Flange | 1   | \$64.64 |



| FLANGED TEE |                                             |     |         |
|-------------|---------------------------------------------|-----|---------|
| PART NO     | DESCRIPTION                                 | QTY | PRICE   |
| M100TEE     | 1" Flanged Tee                              | 10  | \$6.25  |
| M101TEE     | 1" Flanged Tee - Long                       | 10  | \$6.25  |
| M200100TEE  | 2" Port x 1" Flanged Tee                    | 1   | \$12.61 |
| M200TEE     | 2" Port Flanged Tee                         | 1   | \$13.16 |
| M200100TEEB | 2" x 1" Port Flanged Tee w/Mounting Bracket | 1   | \$18.44 |
| M220100TEE  | 2" Full Port Flanged Tee x 1" Flanged Tee   | 1   | \$13.31 |
| M220200TEE  | 2" Full Port Flanged Tee x 2" Flanged Tee   | 1   | \$20.60 |
| M220TEE     | 2" Full Port Flanged Tee                    | 1   | \$13.16 |
| M300TEE     | 3" Flanged Tee                              | 1   | \$62.03 |



| 90° FLANGED COUPLINGS |                              |     |         |
|-----------------------|------------------------------|-----|---------|
| PART NO               | DESCRIPTION                  | QTY | PRICE   |
| M100CPG90             | 1" x 1" 90° Flange           | 10  | \$6.80  |
| M200CPG90             | 2" x 2" 90° Flange           | 1   | \$11.37 |
| M200CPG90SH           | 2" x 2" 90° Flange           | 1   | \$11.37 |
| M220CPG90             | 2" x 2" 90° Full Port Flange | 1   | \$11.37 |
| M300CPG90             | 3" x 3" 90° Full Port Flange | 1   | \$54.05 |



| 45° Y FLANGED COUPLINGS |                                               |     |          |
|-------------------------|-----------------------------------------------|-----|----------|
| PART NO                 | DESCRIPTION                                   | QTY | PRICE    |
| M220Y45                 | 2" Full Port 45° Y Flange                     | 10  | \$64.02  |
| M220YG45                | 2" Full Port 45° Y Flange w/ 3/4" gauge port* | 10  | \$69.42  |
| M300Y45                 | 3" Full Port 45° Y Flange                     | 1   | \$116.63 |
| M300YG45                | 3" Full Port 45° Y Flange w/ 3/4" gauge port* | 1   | \$121.86 |

Note: \*Gauge not included.



| U BOLTS-SS |                            |     |         |
|------------|----------------------------|-----|---------|
| PART NO    | DESCRIPTION                | QTY | PRICE   |
| UB100      | 100 Series Mounting U Bolt | 1   | \$7.64  |
| UB202      | 200 Series Mounting U Bolt | 1   | \$24.00 |
| UB220      | 220 Series Mounting U Bolt | 1   | \$25.33 |

# Manifold Fittings

## FEATURES

- Positive seals.
- Quick & easy assembly.
- Easy On/Off hose connections.
- 360° Orientation.
- 1" & 2" fittings pressure to 150 P.S.I. at 70°F.
- 3" fittings pressure to 125 P.S.I. at 70°F.

### FLANGE x MALE BSP(BRITISH STANDARD PIPE)

| PART NO | DESCRIPTION                                | QTY | PRICE   |
|---------|--------------------------------------------|-----|---------|
| M100BSP | 1" Manifold Flange x 1" Male BSP           | 10  | \$2.09  |
| M200BSP | 2" Manifold Flange x 2" Male BSP           | 10  | \$4.30  |
| M220BSP | 2" Full Port Manifold Flange x 2" Male BSP | 10  | \$4.30  |
| M300BSP | 3" Full Port Manifold Flange x 3" Male BSP | 1   | \$13.16 |

### FLANGE PLUGS (SOLID & W/GAUGE PORT)

| PART NO    | DESCRIPTION                            | QTY | PRICE   |
|------------|----------------------------------------|-----|---------|
| M100PLG    | 1" Flange Plug                         | 10  | \$2.09  |
| M200PLG    | 2" Flange Plug                         | 10  | \$4.30  |
| M220PLG    | 2" Full Port Flange Plug               | 10  | \$5.46  |
| M300PLG    | 3" Flange Plug                         | 10  | \$14.56 |
| M100PLG025 | 1" Flange Plug with 1/4" FPT           | 10  | \$11.08 |
| M100PLG050 | 1" Flange Plug with 1/2" FPT           | 10  | \$11.09 |
| M200PLG018 | 2" Flange Plug with 1/8" FPT           | 10  | \$13.03 |
| M200PLG025 | 2" Flange Plug with 1/4" FPT           | 10  | \$13.03 |
| M200PLG038 | 2" Flange Plug with 3/8" FPT           | 10  | \$13.03 |
| M200PLG050 | 2" Flange Plug with 1/2" FPT           | 10  | \$13.03 |
| M200PLG075 | 2" Flange Plug with 3/4" FPT           | 10  | \$13.03 |
| M200PLG100 | 2" Flange Plug with 1" FPT             | 10  | \$13.03 |
| M220PLG075 | 2" Full Port Flange Plug with 3/4" FPT | 10  | \$21.83 |
| M300PLG075 | 3" Flange Plug with 3/4" FPT           | 10  | \$23.56 |
| M300PLG100 | 3" Flange Plug with 1" FPT             | 10  | \$24.27 |

### FLANGE x FEMALE NPT THREAD

| PART NO    | DESCRIPTION                          | QTY | PRICE   |
|------------|--------------------------------------|-----|---------|
| M100050FPT | 1" Flange x 1/2" Pipe Thread         | 10  | \$2.09  |
| M100075FPT | 1" Flange x 3/4" Pipe Thread         | 10  | \$2.09  |
| M100FPT    | 1" Flange x 1" Pipe Thread           | 10  | \$2.09  |
| M200FPT    | 2" Flange x 2" Pipe Thread           | 1   | \$12.48 |
| M220FPT    | 2" Full Port Flange x 2" Pipe Thread | 1   | \$22.12 |
| M300FPT    | 3" Flange x 3" Pipe Thread           | 1   | \$35.62 |

### FLANGE x FEMALE QDC

| PART NO | DESCRIPTION                             | QTY | PRICE   |
|---------|-----------------------------------------|-----|---------|
| M220D   | 2" Full Port Flange x 2" Female Coupler | 1   | \$22.00 |

### FLANGE x MALE QDC

| PART NO | DESCRIPTION                           | QTY | PRICE   |
|---------|---------------------------------------|-----|---------|
| M100A   | 1" Flange x 1" Male Adapter           | 10  | \$5.93  |
| M200A   | 2" Flange x 2" Male Adapter           | 10  | \$7.92  |
| M220A   | 2" Full Port Flange x 2" Male Adapter | 10  | \$8.72  |
| M300A   | 3" Full Port Flange x 3" Male Adapter | 1   | \$18.57 |

### FLANGE x NPT THREAD

| PART NO    | DESCRIPTION                          | QTY | PRICE   |
|------------|--------------------------------------|-----|---------|
| M100075MPT | 1" Flange x 3/4" Male Thread         | 10  | \$2.09  |
| M100MPT    | 1" Flange x 1" Male Thread           | 10  | \$2.09  |
| M100125MPT | 1" Flange x 1 1/4" Male Thread       | 10  | \$2.09  |
| M200125MPT | 2" Flange x 1 1/4" Male Thread       | 10  | \$4.30  |
| M200150MPT | 2" Flange x 1 1/2" Male Thread       | 10  | \$4.30  |
| M200MPT    | 2" Flange x 2" Male Thread           | 1   | \$4.30  |
| M220MPT    | 2" Full Port Flange x 2" Male Thread | 1   | \$4.30  |
| M300MPT    | 3" Flange x 3" Male Thread           | 1   | \$13.16 |

### FLANGE x HOSE BARB

| PART NO    | DESCRIPTION                            | QTY | PRICE   |
|------------|----------------------------------------|-----|---------|
| M100075BRB | 1" Flange x 3/4" Hose Barb             | 10  | \$1.81  |
| M100BRB    | 1" Flange x 1" Hose Barb               | 10  | \$1.81  |
| M100125BRB | 1" Flange x 1 1/4" Hose Barb           | 10  | \$1.81  |
| M200100BRB | 2" Flange x 1" Hose Barb               | 10  | \$4.87  |
| M200125BRB | 2" Flange x 1 1/4" Hose Barb           | 10  | \$5.54  |
| M200150BRB | 2" Flange x 1 1/2" Hose Barb           | 10  | \$4.87  |
| M200BRB    | 2" Flange x 2" Hose Barb               | 10  | \$4.87  |
| M220100BRB | 2" Full Port Flange x 1" Hose Barb     | 1   | \$4.87  |
| M220125BRB | 2" Full Port Flange x 1 1/4" Hose Barb | 1   | \$4.87  |
| M220150BRB | 2" Full Port Flange x 1 1/2" Hose Barb | 1   | \$4.87  |
| M220BRB    | 2" Full Port Flange x 2" Hose Barb     | 1   | \$4.87  |
| M300220BRB | 3" Flange x 2" Hose Barb               | 1   | \$14.98 |
| M300BRB    | 3" Flange x 3" Hose Barb               | 1   | \$14.89 |

**FLANGE x 90° HOSE BARB ELBOW**

| PART NO      | DESCRIPTION                                      | QTY | PRICE   |
|--------------|--------------------------------------------------|-----|---------|
| M100075BRB90 | 1" Flange x 3/4" 90° Hose Barb Elbow             | 10  | \$2.20  |
| M100BRB90    | 1" Flange x 1" 90° Hose Barb Elbow               | 10  | \$2.20  |
| M100125BRB90 | 1" Flange x 1 1/4" 90° Hose Barb Elbow           | 10  | \$2.20  |
| M100150BRB90 | 1" Flange x 1 1/2" 90° Hose Barb Elbow           | 10  | \$16.28 |
| M200100BRB90 | 2" Flange x 1" 90° Hose Barb Elbow               | 10  | \$9.02  |
| M200125BRB90 | 2" Flange x 1 1/4" 90° Hose Barb Elbow           | 10  | \$9.02  |
| M200150BRB90 | 2" Flange x 1 1/2" 90° Hose Barb Elbow           | 10  | \$9.02  |
| M200BRB90    | 2" Flange x 2" 90° Hose Barb Elbow               | 10  | \$9.02  |
| M220150BRB90 | 2" Full Port Flange x 1 1/2" 90° Hose Barb Elbow | 1   | \$9.02  |
| M220BRB90    | 2" Full Port Flange x 2" 90° Hose Barb Elbow     | 1   | \$9.02  |
| M300220BRB90 | 3" Flange x 2" 90° Hose Barb Elbow               | 1   | \$14.89 |
| M300BRB90    | 3" Flange x 3" 90° Hose Barb Elbow               | 1   | \$39.83 |

**FLANGE x 45° HOSE BARB ELBOW**

| PART NO   | DESCRIPTION                                  | QTY | PRICE   |
|-----------|----------------------------------------------|-----|---------|
| M100BRB45 | 1" Flange x 1" 45° Hose Barb Elbow           | 10  | \$13.33 |
| M200BRB45 | 2" Flange x 2" 45° Hose Barb Elbow           | 10  | \$18.83 |
| M220BRB45 | 2" Full Port Flange x 2" 45° Hose Barb Elbow | 10  | \$19.96 |
| M300BRB45 | 3" Flange x 3" 45° Hose Barb Elbow           | 10  | \$69.62 |

**FLANGE x 45° HOSE BARB ELBOW**

| PART NO      | DESCRIPTION                            | QTY | PRICE   |
|--------------|----------------------------------------|-----|---------|
| M200150BRB45 | 2" Flange x 1 1/2" 45° Hose Barb Elbow | 10  | \$16.05 |

**FLANGE x HOSE BARB TEE**

| PART NO    | DESCRIPTION                            | QTY | PRICE   |
|------------|----------------------------------------|-----|---------|
| M100100HBT | 1" Flange x 1" Hose Barb Tee           | 10  | \$7.78  |
| M100125HBT | 1" Flange x 1 1/4" Hose Barb Tee       | 10  | \$9.57  |
| M220200HBT | 2" Full Port Flange x 2" Hose Barb Tee | 1   | \$14.42 |
| M300300HBT | 3" Flange x 3" Hose Barb Tee           | 1   | \$31.42 |

**FLANGE x MALE NPT THREAD -316SS**

| PART NO      | DESCRIPTION                              | QTY | PRICE    |
|--------------|------------------------------------------|-----|----------|
| M100MPTSS    | 1" Flange x 1" Male Thread               | 1   | \$23.33  |
| M200125MPTSS | 2" Flange x 1 1/4" Male Thread           | 1   | \$36.49  |
| M200150MPTSS | 2" Flange x 1 1/2" Male Thread           | 1   | \$36.49  |
| M200MPTSS    | 2" Flange x 2" Male Thread               | 1   | \$46.20  |
| M220150MPTSS | 2" Full Port Flange x 1 1/2" Male Thread | 1   | \$53.01  |
| M220MPTSS    | 2" Full Port Flange x 2" Male Thread     | 1   | \$53.01  |
| M300220MPTSS | 3" Flange x 2" Full Port Male Thread     | 1   | \$109.60 |
| M300MPTSS    | 3" Flange x 3" Male Thread               | 1   | \$97.84  |

**FLANGED CROSS**

| PART NO  | DESCRIPTION                   | QTY | PRICE    |
|----------|-------------------------------|-----|----------|
| M100CR   | 1" Flanged Cross              | 10  | \$18.35  |
| M200CR   | 2" Flanged Cross              | 1   | \$32.91  |
| M220CR   | 2" Full Port Flanged Cross    | 1   | \$32.91  |
| M220CRSS | 2" Full Port SS Flanged Cross | 1   | \$201.49 |
| M300CR   | 3" Flanged Cross              | 1   | \$72.79  |

**FLANGE CLAMPS**

| PART NO | DESCRIPTION                 | TORQUE        | QTY | PRICE   |
|---------|-----------------------------|---------------|-----|---------|
| FC100   | 100 Series Worm Screw Clamp | 90-100 in/lbs | 10  | \$9.90  |
| FC200   | 200 Series Worm Screw Clamp | 90-100 in/lbs | 10  | \$11.41 |
| FC220   | 220 Series Worm Screw Clamp | 90-100 in/lbs | 10  | \$12.52 |
| FC300   | 300 Series Worm Screw Clamp | 90-100 in/lbs | 10  | \$17.26 |

**RIB****FLANGE GASKETS**

| PART NO | DESCRIPTION                                  | QTY | PRICE   |
|---------|----------------------------------------------|-----|---------|
| M100G   | 1" EPDM Manifold Gasket                      | 1   | \$2.09  |
| M101G*  | 1" EPDM Manifold Gasket with Rib             | 1   | \$1.73  |
| M100GV  | 100 Series FKM (viton type) Gasket           | 1   | \$5.54  |
| 150G    | 1 1/2" EPDM Gasket                           | 1   | \$1.00  |
| 150GV   | 200 Series FKM (viton type) Gasket           | 1   | \$11.06 |
| 200G    | 220 Series Full Port EPDM Gasket             | 1   | \$1.06  |
| 200GV   | 220 Series Full Port FKM (viton type) Gasket | 1   | \$18.82 |
| M201G*  | 2" EPDM Manifold Gasket with Rib             | 1   | \$1.85  |
| M221G*  | 2" Full Port EPDM Manifold Gasket with Rib   | 1   | \$2.01  |
| 300G    | 3" EPDM Gasket                               | 1   | \$1.45  |
| 300GV   | 300 Series FKM (viton type) Gasket           | 1   | \$23.53 |
| M301G*  | 3" EPDM Manifold Gasket with Rib             | 1   | \$2.18  |





# Manifold T Line Strainers

## FEATURES

- EPDM gaskets.
- 316 stainless steel screens.
- 150 P.S.I. maximum.



### 1" MANIFOLD T LINE STRAINERS

| PART NO     | DESCRIPTION                              | MAX PSI | QTY | PRICE   |
|-------------|------------------------------------------|---------|-----|---------|
| MLST100-16  | 1" Manifold T Strainer w/16 Mesh Screen  | 150     | 1   | \$40.86 |
| MLST100-30  | 1" Manifold T Strainer w/30 Mesh Screen  | 150     | 1   | \$40.86 |
| MLST100-50  | 1" Manifold T Strainer w/50 Mesh Screen  | 150     | 1   | \$40.86 |
| MLST100-80  | 1" Manifold T Strainer w/80 Mesh Screen  | 150     | 1   | \$40.86 |
| MLST100-100 | 1" Manifold T Strainer w/100 Mesh Screen | 150     | 1   | \$40.86 |

### 2" MANIFOLD T LINE STRAINERS

| PART NO     | DESCRIPTION                              | MAX PSI | QTY | PRICE   |
|-------------|------------------------------------------|---------|-----|---------|
| MLST150-16  | 2" Manifold T Strainer w/16 Mesh Screen  | 150     | 1   | \$76.10 |
| MLST150-30  | 2" Manifold T Strainer w/30 Mesh Screen  | 150     | 1   | \$76.10 |
| MLST150-50  | 2" Manifold T Strainer w/50 Mesh Screen  | 150     | 1   | \$76.10 |
| MLST150-80  | 2" Manifold T Strainer w/80 Mesh Screen  | 150     | 1   | \$76.10 |
| MLST150-100 | 2" Manifold T Strainer w/100 Mesh Screen | 150     | 1   | \$76.10 |

# Manifold Y Line Strainers

## FEATURES

- EPDM gaskets.
- 316 stainless steel screens.
- 75 P.S.I. maximum.



### 1" MANIFOLD Y LINE STRAINERS

| PART NO   | DESCRIPTION                             | MAX PSI | QTY | PRICE   |
|-----------|-----------------------------------------|---------|-----|---------|
| MLS100-20 | 1" Manifold Y Strainer w/20 Mesh Screen | 75      | 1   | \$37.37 |
| MLS100-40 | 1" Manifold Y Strainer w/40 Mesh Screen | 75      | 1   | \$34.03 |
| MLS100-50 | 1" Manifold Y Strainer w/50 Mesh Screen | 75      | 1   | \$38.49 |
| MLS100-80 | 1" Manifold Y Strainer w/80 Mesh Screen | 75      | 1   | \$38.49 |

## FEATURES

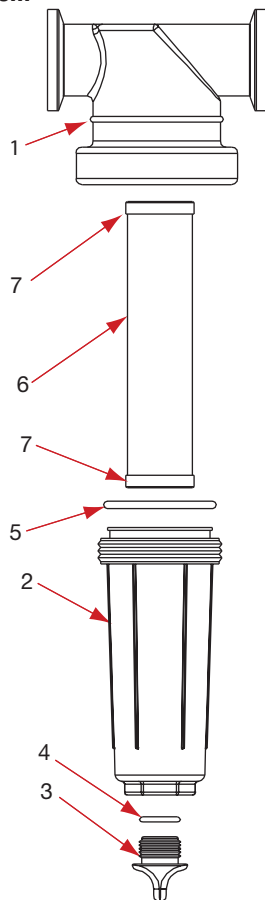
- EPDM gaskets.
- 316 stainless steel screens.
- 150 P.S.I. maximum.



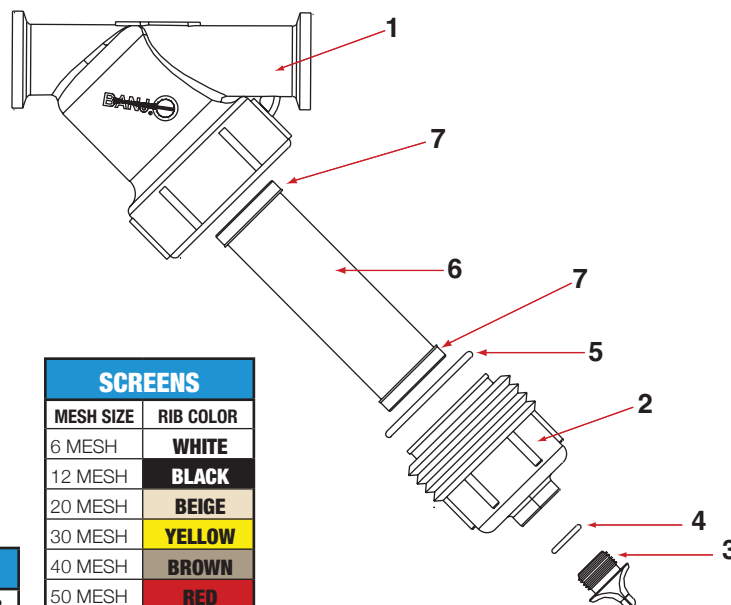
### 2" MANIFOLD Y LINE STRAINERS

| PART NO    | DESCRIPTION                              | MAX PSI | QTY | PRICE   |
|------------|------------------------------------------|---------|-----|---------|
| MLS200-06  | 2" Manifold Y Strainer w/6 Mesh Screen   | 150     | 1   | \$87.45 |
| MLS200-12  | 2" Manifold Y Strainer w/12 Mesh Screen  | 150     | 1   | \$87.45 |
| MLS200-20  | 2" Manifold Y Strainer w/20 Mesh Screen  | 150     | 1   | \$87.45 |
| MLS200-30  | 2" Manifold Y Strainer w/30 Mesh Screen  | 150     | 1   | \$87.45 |
| MLS200-50  | 2" Manifold Y Strainer w/50 Mesh Screen  | 150     | 1   | \$87.45 |
| MLS200-80  | 2" Manifold Y Strainer w/80 Mesh Screen  | 150     | 1   | \$87.45 |
| MLS200-100 | 2" Manifold Y Strainer w/100 Mesh Screen | 150     | 1   | \$87.45 |
| MLS200-120 | 2" Manifold Y Strainer w/120 Mesh Screen | 150     | 1   | \$87.45 |





| SCREENS   |           |
|-----------|-----------|
| MESH SIZE | RIB COLOR |
| 16 MESH   | GRAY      |
| 30 MESH   | YELLOW    |
| 50 MESH   | RED       |
| 80 MESH   | BLUE      |
| 100 MESH  | GREEN     |



| SCREENS   |           |
|-----------|-----------|
| MESH SIZE | RIB COLOR |
| 6 MESH    | WHITE     |
| 12 MESH   | BLACK     |
| 20 MESH   | BEIGE     |
| 30 MESH   | YELLOW    |
| 40 MESH   | BROWN     |
| 50 MESH   | RED       |
| 80 MESH   | BLUE      |
| 100 MESH  | GREEN     |
| 120 MESH  | BLACK     |

| REPLACEMENT PARTS MLST100 |            |                                                 |     |         |
|---------------------------|------------|-------------------------------------------------|-----|---------|
| ITEM                      | PART NO    | DESCRIPTION                                     | QTY | PRICE   |
| 1                         | MLST100-H  | 1" Flanged T Strainer Head                      | 1   | \$14.10 |
| N/S                       | MLST100-HB | 1" Flanged T Strainer (Includes 1-5)            | 1   | \$24.91 |
| 2                         | LST100-B   | 1" Flanged T Strainer Bowl, Drain Plug & O-Ring | 1   | \$12.64 |
| 3                         | 12777      | 1" Flanged T Strainer Plug                      | 1   | \$2.24  |
| 4                         | UV15163    | 1" Flanged T Strainer O-Ring                    | 1   | \$0.44  |
| 5                         | LST100-G   | 1" EPDM Gasket                                  | 1   | \$3.32  |
| 5                         | LST100-GV  | 1" FKM (viton type) Gasket                      | 1   | \$7.07  |
| 6                         | LST116     | 16 Mesh Screen                                  | 1   | \$17.50 |
| 6                         | LST130     | 30 Mesh Screen                                  | 1   | \$17.50 |
| 6                         | LST150     | 50 Mesh Screen                                  | 1   | \$17.50 |
| 6                         | LST180     | 80 Mesh Screen                                  | 1   | \$17.50 |
| 6                         | LST1100    | 100 Mesh Screen                                 | 1   | \$17.50 |
| 7                         | 13778      | 3/4" EPDM O-Ring for Screen                     | 2   | \$1.86  |

| REPLACEMENT PARTS MLST150 |            |                                                     |     |         |
|---------------------------|------------|-----------------------------------------------------|-----|---------|
| ITEM                      | PART NO    | DESCRIPTION                                         | QTY | PRICE   |
| 1                         | MLST150-H  | 1 1/2" Flanged T Strainer Head                      | 1   | \$29.72 |
| N/S                       | MLST150-HB | 1 1/2" Flanged T Strainer (Includes 1-5)            | 1   | \$49.84 |
| 2                         | LST150-B   | 1 1/2" Flanged T Strainer Bowl, Drain Plug & O-Ring | 1   | \$20.82 |
| 3                         | LSQ200-PL  | 1 1/2" Flanged T Strainer Plug                      | 1   | \$2.67  |
| 4                         | LSQ200-R   | 1 1/2" Flanged T Strainer O-Ring                    | 1   | \$0.45  |
| 5                         | LST150-G   | 1 1/2" EPDM Gasket                                  | 1   | \$3.72  |
| 5                         | LST150-GV  | 1 1/2" FKM (viton type) Gasket                      | 1   | \$8.55  |
| 6                         | LST1516    | 16 Mesh Screen                                      | 1   | \$28.73 |
| 6                         | LST1530    | 30 Mesh Screen                                      | 1   | \$28.73 |
| 6                         | LST1550    | 50 Mesh Screen                                      | 1   | \$28.73 |
| 6                         | LST1580    | 80 Mesh Screen                                      | 1   | \$28.73 |
| 6                         | LST15100   | 100 Mesh Screen                                     | 1   | \$28.73 |
| 7                         | LST034G    | 1 1/2" EPDM O-Ring for Screen                       | 2   | \$2.77  |

| REPLACEMENT PARTS MLS100 |          |                                             |     |         |
|--------------------------|----------|---------------------------------------------|-----|---------|
| ITEM                     | PART NO  | DESCRIPTION                                 | QTY | PRICE   |
| 1                        | MLS100B  | 1" Y Strainer Body                          | 1   | \$16.50 |
| N/S                      | MLS100BC | 1" Y Strainer Assembly (Includes items 1-5) | 1   | \$18.94 |
| 2                        | LS100-C1 | 1" Y Strainer Cap, Drain Plug & O-Ring      | 1   | \$13.38 |
| 3                        | 12777    | 1" Flanged Y Strainer Plug                  | 1   | \$2.24  |
| 4                        | UV15163  | 1" Flanged Y Strainer O-Ring                | 1   | \$0.44  |
| 5                        | LS100-G  | 1" EPDM Gasket                              | 1   | \$3.32  |
| 6                        | LS120    | 20 Mesh Screen                              | 1   | \$20.75 |
| 6                        | LS140    | 40 Mesh Screen                              | 1   | \$20.75 |
| 6                        | LS150    | 50 Mesh Screen                              | 1   | \$20.75 |
| 6                        | LS180    | 80 Mesh Screen                              | 1   | \$20.75 |
| 7                        | LS125G   | 1" EPDM O-Ring for Screen                   | 2   | \$2.32  |

| REPLACEMENT PARTS MLS200 |           |                                             |     |         |
|--------------------------|-----------|---------------------------------------------|-----|---------|
| ITEM                     | PART NO   | DESCRIPTION                                 | QTY | PRICE   |
| 1                        | MLS200B   | 2" Y Strainer Body                          | 1   | \$41.24 |
| N/S                      | MLS200BC  | 2" Y Strainer Assembly (Includes items 1-5) | 1   | \$44.29 |
| 2                        | LS150-C   | 2" Y Strainer Cap, Drain Plug & O-Ring      | 1   | \$21.18 |
| 3                        | LSQ200-PL | 2" Flanged Y Strainer Plug                  | 1   | \$2.67  |
| 4                        | LSQ200-R  | 2" Flanged Y Strainer O-Ring                | 1   | \$0.45  |
| 5                        | LS150-G   | 2" EPDM Gasket                              | 1   | \$3.32  |
| 5                        | LS150-GV  | 2" FKM (viton type) Gasket                  | 1   | \$11.14 |
| 6                        | LS206     | 6 Mesh Screen                               | 1   | \$42.48 |
| 6                        | LS212     | 12 Mesh Screen                              | 1   | \$42.48 |
| 6                        | LS220     | 20 Mesh Screen                              | 1   | \$42.48 |
| 6                        | LS230     | 30 Mesh Screen                              | 1   | \$42.48 |
| 6                        | LS250     | 50 Mesh Screen                              | 1   | \$42.48 |
| 6                        | LS280     | 80 Mesh Screen                              | 1   | \$42.48 |
| 6                        | LS2100    | 100 Mesh Screen                             | 1   | \$42.48 |
| 6                        | LS2120    | 120 Mesh Screen                             | 1   | \$42.48 |
| 6                        | LS2150    | 150 Mesh Screen                             | 1   | \$47.22 |
| 7                        | LS141G    | 2" EPDM O-Ring for Screen                   | 2   | \$3.37  |

# Manifold Y Line Strainers

## FEATURES

- EPDM gaskets.
- 316 stainless steel screens.
- 150 P.S.I. maximum.



Easy off threaded  
strainer ring!

## 2" FULL PORT MANIFOLD Y LINE STRAINERS

| PART NO    | DESCRIPTION                                        | MAX<br>PSI | QTY | PRICE    |
|------------|----------------------------------------------------|------------|-----|----------|
| MLS222-04  | 2" Full Port Manifold Y Strainer w/4 Mesh Screen   | 150        | 1   | \$133.48 |
| MLS222-08  | 2" Full Port Manifold Y Strainer w/8 Mesh Screen   | 150        | 1   | \$133.48 |
| MLS222-10  | 2" Full Port Manifold Y Strainer w/10 Mesh Screen  | 150        | 1   | \$133.48 |
| MLS222-16  | 2" Full Port Manifold Y Strainer w/16 Mesh Screen  | 150        | 1   | \$133.48 |
| MLS222-30  | 2" Full Port Manifold Y Strainer w/30 Mesh Screen  | 150        | 1   | \$133.48 |
| MLS222-50  | 2" Full Port Manifold Y Strainer w/50 Mesh Screen  | 150        | 1   | \$133.48 |
| MLS222-80  | 2" Full Port Manifold Y Strainer w/80 Mesh Screen  | 150        | 1   | \$133.48 |
| MLS222-100 | 2" Full Port Manifold Y Strainer w/100 Mesh Screen | 150        | 1   | \$133.48 |



Threaded end cap to  
remove screen!

## FEATURES

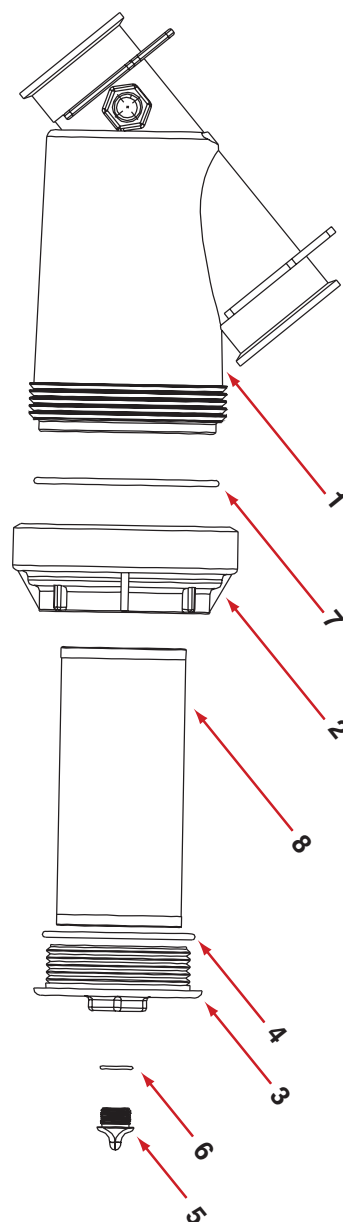
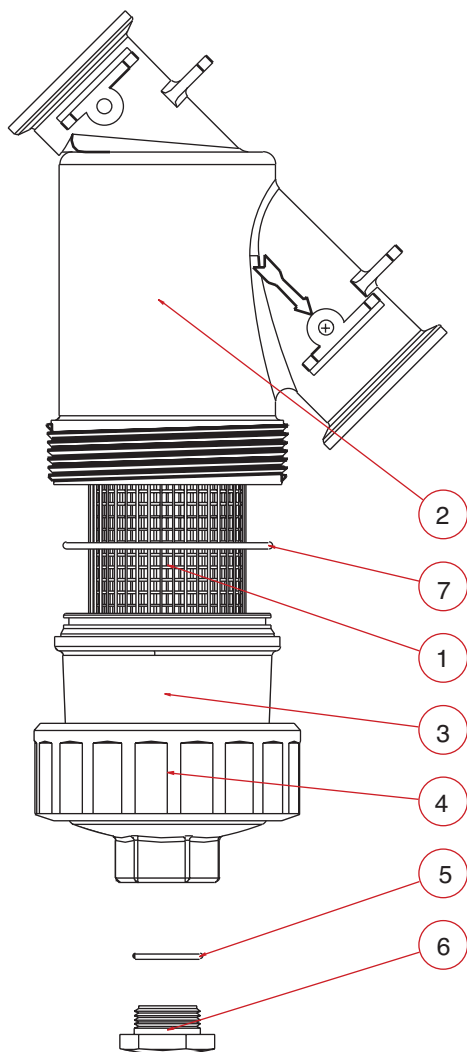
- EPDM gaskets.
- 304 stainless steel screens.
- 100 P.S.I. maximum.

## 3" MANIFOLD Y LINE STRAINERS

| PART NO   | DESCRIPTION                             | MAX<br>PSI | QTY | PRICE    |
|-----------|-----------------------------------------|------------|-----|----------|
| MLS300-04 | 3" Manifold Y Strainer w/4 Mesh Screen  | 100        | 1   | \$487.99 |
| MLS300-08 | 3" Manifold Y Strainer w/8 Mesh Screen  | 100        | 1   | \$487.99 |
| MLS300-12 | 3" Manifold Y Strainer w/12 Mesh Screen | 100        | 1   | \$487.99 |
| MLS300-20 | 3" Manifold Y Strainer w/20 Mesh Screen | 100        | 1   | \$487.99 |
| MLS300-50 | 3" Manifold Y Strainer w/50 Mesh Screen | 100        | 1   | \$487.99 |

**\*WARNING:** 3" Polypropylene "Y" Strainer to be used on suction side or non-pressure side in all applications.





## REPLACEMENT PARTS MLS222

| ITEM | PART NO   | DESCRIPTION                  | QTY | PRICE   |
|------|-----------|------------------------------|-----|---------|
| 1    | LST204SS  | 4 SS Mesh Screen             | 1   | \$56.58 |
| 1    | LST206SS  | 6 SS Mesh Screen             | 1   | \$56.58 |
| 1    | LST208SS  | 8 SS Mesh Screen             | 1   | \$56.58 |
| 1    | LST210SS  | 10 SS Mesh Screen            | 1   | \$56.58 |
| 1    | LST216SS  | 16 SS Mesh Screen            | 1   | \$56.58 |
| 1    | LST230SS  | 30 SS Mesh Screen            | 1   | \$56.58 |
| 1    | LST250SS  | 50 SS Mesh Screen            | 1   | \$56.58 |
| 1    | MLS250SS  | 50 SS Mesh Perforated Screen | 1   | \$92.96 |
| 1    | LST280SS  | 80 SS Mesh Screen            | 1   | \$56.58 |
| 1    | MLS280SS  | 80 SS Mesh Perforated Screen | 1   | \$92.96 |
| 1    | LST2100SS | 100 SS Mesh Screen           | 1   | \$56.58 |
| 2    | MLS220B1  | 2" Flanged Y Strainer Body   | 1   | \$42.45 |
| 3    | MLS220C1  | 2" Flanged Y Strainer Cap    | 1   | \$24.43 |
| 4    | MLS220R1  | 2" Flanged Y Strainer Ring   | 1   | \$12.67 |
| 5    | LSQ200-R  | 2" Plug Gasket               | 1   | \$0.45  |
| 6    | LSQ200-PL | 2" Plug                      | 1   | \$2.67  |
| 7    | MLS220G1  | 2" Body Gasket               | 1   | \$3.66  |
| 2-7  | MLS222BC  | Strainer without Screen      | 1   | \$66.65 |

## REPLACEMENT PARTS MLS300

| ITEM | PART NO    | DESCRIPTION                        | QTY | PRICE    |
|------|------------|------------------------------------|-----|----------|
| 1    | MLS300B    | 3" Flanged Y Strainer Body         | 1   | \$318.25 |
| 2    | MLS300CAP  | 3" Flanged Y Strainer Cap          | 1   | \$155.60 |
| 3    | LS300EC    | 3" End Cap                         | 1   | \$29.72  |
| 4    | MLS300ECG  | 3" EPDM End Cap Gasket             | 1   | \$12.26  |
| 4    | MLS300ECGV | 3" FKM (viton type) End Cap Gasket | 1   | \$23.51  |
| 5    | 13777      | 3" End Cap Plug                    | 1   | \$2.95   |
| 6    | 13778      | 3" End Cap Plug Gasket             | 1   | \$1.86   |
| 7    | MLS300G    | 3" EPDM Cap Gasket                 | 1   | \$6.10   |
| 7    | MLS300GV   | 3" FKM (viton type) Cap Gasket     | 1   | \$31.91  |
| 8    | LS304      | 4 SS Mesh Screen                   | 1   | \$131.85 |
| 8    | LS308      | 8 SS Mesh Screen                   | 1   | \$131.85 |
| 8    | LS312      | 10 SS Mesh Screen                  | 1   | \$131.85 |
| 8    | LS320      | 16 SS Mesh Screen                  | 1   | \$131.85 |
| 8    | LS350      | 30 SS Mesh Screen                  | 1   | \$131.85 |

# Manifold Bolted Tank Fittings "Bottom Drain"<sup>TM</sup>

PATENTED

## FEATURES

- Stainless steel bolts.
- Bolt head plugs sealed ultrasonically.
- Glass reinforced polypropylene.
- EPDM gaskets standard.
- FKM (viton type) available.



3"



Note: Tank not included.

### MANIFOLD BOLTED BOTTOM DRAIN TANK FLANGES

| PART NO      | DESCRIPTION                                           | QTY | PRICE    |
|--------------|-------------------------------------------------------|-----|----------|
| MBF100BD     | 1" Flange x 1" EPDM Female Thread                     | 27  | \$47.54  |
| MBF100BDV    | 1" Flange x 1" FKM(viton type) Female Thread          | 27  | \$72.03  |
| MBF150200BD  | 2" Flange x 1½" EPDM Female Thread                    | 27  | \$45.23  |
| MBF150200BDV | 2" Flange x 1½" FKM (viton type) Female Thread        | 27  | \$129.66 |
| MBF200BD     | 2" Flange x 2" EPDM Female Thread                     | 25  | \$43.07  |
| MBF200BDV    | 2" Flange x 2" FKM(viton type) Female Thread          | 25  | \$133.57 |
| MBF220BD     | 2" Full Port Flange x 2" EPDM Female Thread           | 27  | \$60.38  |
| MBF220BDV    | 2" Full Port Flange x 2" FKM(viton type)Female Thread | 27  | \$136.88 |
| MBF300BD     | 3" Flange x 3" EPDM Female Thread                     | 16  | \$84.31  |
| MBF300BDV    | 3" Flange x 3" FKM(viton type) Female Thread          | 16  | \$208.91 |

# Manifold Bolted Tank Fittings

### MANIFOLD BOLTED TANK FLANGES

| PART NO | DESCRIPTION                                             | QTY | PRICE    |
|---------|---------------------------------------------------------|-----|----------|
| MBF100  | 1" Flange x 1" EPDM Female Thread                       | 27  | \$35.85  |
| MBF100V | 1" Flange x 1" FKM (viton type) Female Thread           | 27  | \$93.64  |
| MBF200  | 2" Flange x 2" EPDM Female Thread                       | 27  | \$37.08  |
| MBF200V | 2" Flange x 2" FKM (viton type) Female Thread           | 27  | \$125.90 |
| MBF220  | 2" Full Port Flange x 2" EPDM Female Thread             | 27  | \$61.23  |
| MBF220V | 2" Full Port Flange x 2" FKM (viton type) Female Thread | 27  | \$153.86 |
| MBF300  | 3" Flange x 3" EPDM Female Thread                       | 27  | \$81.70  |
| MBF300V | 3" Flange x 3" FKM (viton type) Female Thread           | 27  | \$195.82 |

Longer bolts available for thicker tanks! See page 194.  
See page 97 for gaskets.



1"-2" 4-bolt



3" 6-bolt

# Manifold "Bottom Drain"<sup>TM</sup> & Bulkhead Tank Fittings

PATENTED



### MANIFOLD POLY BOTTOM DRAIN TANK FLANGES

| PART NO  | DESCRIPTION                                     | HOLE SIZE | QTY | PRICE   |
|----------|-------------------------------------------------|-----------|-----|---------|
| MTF220BD | 2" x 2" Full Port Manifold Threaded EPDM Flange | 3¼"       | 1   | \$31.16 |
| MTF300BD | 3" x 3" Manifold Threaded EPDM Flange           | 4½"       | 1   | \$54.49 |

\*Gasket and clamp not included. Please see page 75 for items.

### MANIFOLD POLY BULKHEAD FITTINGS

| PART NO | DESCRIPTION                                 | HOLE SIZE | QTY | PRICE   |
|---------|---------------------------------------------|-----------|-----|---------|
| MTF220  | 2" Manifold Poly Bulkhead EPDM Tank Fitting | 3¼"       | 1   | \$30.64 |
| MTF300  | 3" Manifold Poly Bulkhead EPDM Tank Fitting | 4½"       | 1   | \$52.27 |

\*Gasket not included. Please see page 75 for items.





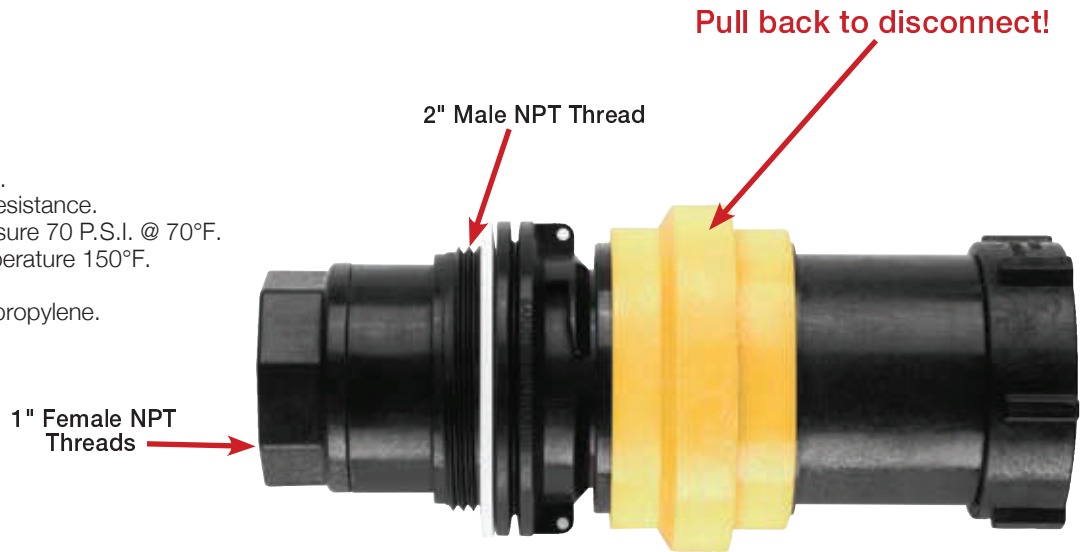
# Dry Poppet Couplings

## FEATURES

- Lightweight.
- Minimal fluid spillage.
- Easy to use.
- Economical.
- Reduces risk of exposure.
- Wide range of chemical resistance.
- Maximum operating pressure 70 P.S.I. @ 70°F.
- Maximum operating temperature 150°F.
- 30 GPM maximum flow.
- Precision molded in polypropylene.
- 1" Female NPT threads.

## APPLICATIONS

- Agriculture
- Industrial
- Pharmaceutical
- Chemical processing



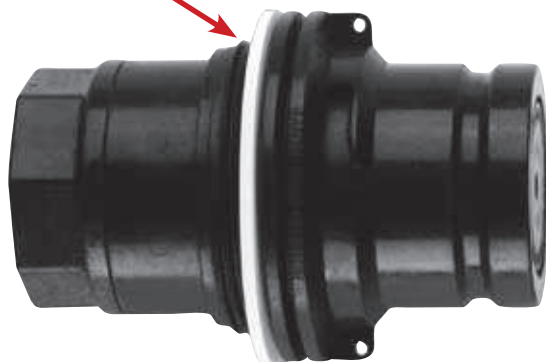
Male Adapter & Female Coupler shown coupled together but sold separately.

| DRY POPPET COUPLINGS |                                                                                                   |     |          |
|----------------------|---------------------------------------------------------------------------------------------------|-----|----------|
| PART NO              | DESCRIPTION                                                                                       | QTY | PRICE    |
| DPCF100              | Female Dry Poppet Coupler, 1" Female NPT Threads w/ FKM (viton type) Seals                        | 1   | \$148.73 |
| DPCM100              | Male Dry Poppet Adapter, 1" Female NPT Threads w/ FKM (viton type) Seals                          | 1   | \$135.27 |
| DPCMT100             | Male Dry Poppet Adapter, w/2" Male Threaded Body, 1" Female NPT Threads w/ FKM (viton type) Seals | 1   | \$135.27 |



Male Adapter Dry Poppet DPCM100

2" Male NPT Thread



Male Adapter Dry Poppet DPCMT100



Female Coupling Dry Poppet DPCF100

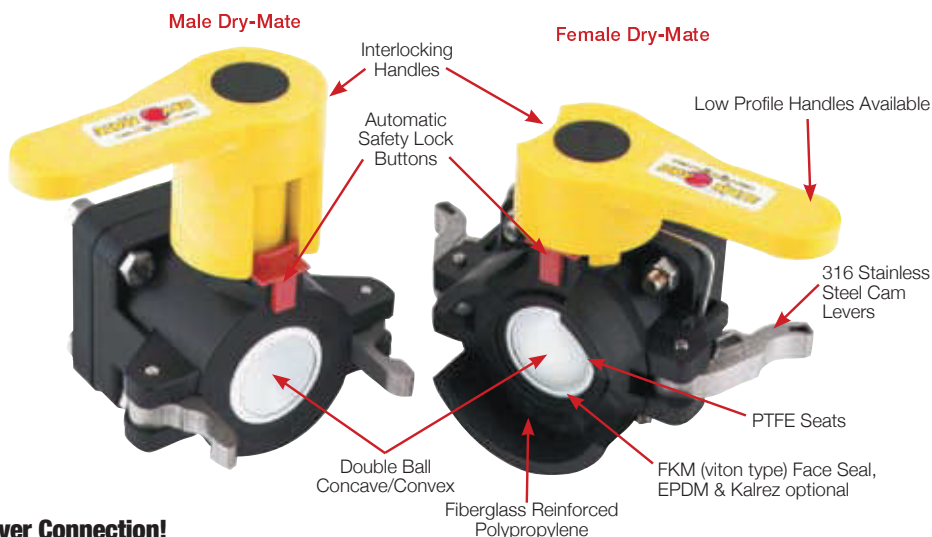
# Polypropylene Dry-Disconnect

## FEATURES

- Lightweight.
- Unrestricted 1½" flow.
- Minimal fluid spillage.
- Easy to use.
- Economical.
- Reduces risk of exposure.
- Wide range of chemical resistance.
- Cannot be uncoupled in open position.
- Spillage Data: 1½" = 2 ML and 2" = 2 ML
- Maximum operating pressure 100 P.S.I. @ 70°F or 70 P.S.I. @ 150°F.



Old style Dry-Mate



**Prevents Accidental Spills And Exposure!**  
**Patented Double Ball Design With Cam Lever Connection!**

## POLY DRY-MATE SETS

| PART NO | DESCRIPTION           | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE    |
|---------|-----------------------|---------|-----------|-------------------|-----|----------|
| DM150AD | 1½" Poly Dry-Mate Set | 100     | 1½"       | 1½"               | 1   | \$480.77 |
| DM200AD | 2" Poly Dry-Mate Set  | 100     | 2"        | 1½"               | 1   | \$480.77 |

## POLY MALE DRY-MATE

| PART NO   | DESCRIPTION                                          | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE      |
|-----------|------------------------------------------------------|---------|-----------|-------------------|-----|------------|
| DM150A    | 1½" Male x FPT NPT                                   | 100     | 1½"       | 1½"               | 1   | \$232.37   |
| DM150AB   | 1½" Male x FPT BSP                                   | 100     | 1½"       | 1½"               | 1   | \$232.37   |
| DM150AE   | 1½" Male x FPT NPT w/ EPDM Seals                     | 100     | 1½"       | 1½"               | 1   | \$232.37   |
| DM150AT   | 1½" Male x FPT NPT w/ Kalrez® Seals                  | 100     | 1½"       | 1½"               | 1   | \$1,727.45 |
| DM200A    | 2" Male x FPT NPT                                    | 100     | 2"        | 1½"               | 1   | \$232.37   |
| DM200AB   | 2" Male x FPT BSP                                    | 100     | 2"        | 1½"               | 1   | \$232.37   |
| DM200AE   | 2" Male x FPT NPT w/ EPDM Seals                      | 100     | 2"        | 1½"               | 1   | \$232.37   |
| DM200AT   | 2" Male x FPT NPT w/ Kalrez® Seals                   | 100     | 2"        | 1½"               | 1   | \$1,727.45 |
| DMMT201A  | 2" Male x Male NPT w/low profile handle              | 100     | 2"        | 1½"               | 1   | \$243.34   |
| DMMT201AE | 2" Male x Male NPT w/low profile handle w/EPDM Seals | 100     | 2"        | 1½"               | 1   | \$243.34   |

## POLY FEMALE DRY-MATE

| PART NO | DESCRIPTION                | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE      |
|---------|----------------------------|---------|-----------|-------------------|-----|------------|
| DM150D  | 1½" Female x FPT NPT       | 100     | 1½"       | 1½"               | 1   | \$248.38   |
| DM150DB | 1½" Female x FPT BSP       | 100     | 1½"       | 1½"               | 1   | \$248.38   |
| DM150DE | 1½" Female w/EPDM Seals    | 100     | 1½"       | 1½"               | 1   | \$248.38   |
| DM150DT | 1½" Female w/Kalrez® Seals | 100     | 1½"       | 1½"               | 1   | \$1,727.45 |
| DM200D  | 2" Female x FPT NPT        | 100     | 2"        | 1½"               | 1   | \$248.38   |
| DM200DB | 2" Female x FPT BSP        | 100     | 2"        | 1½"               | 1   | \$248.38   |
| DM200DE | 2" Female w/EPDM Seals     | 100     | 2"        | 1½"               | 1   | \$248.38   |
| DM200DT | 2" Female w/Kalrez® Seals  | 100     | 2"        | 1½"               | 1   | \$1,727.45 |

**User friendly:** Operating a Banjo Dry-Mate is simple. The handles interlock making it easy to identify which handle opens or closes first. No guessing involved! The two Dry-Mate halves couple together with cam levers for positive engagement.

**Design:** The Banjo Dry-Mate is designed for safe and easy spill free connections. The "double ball" design allows maximum flow, while the cam lever style of connection is the most recognized fluid connector.



Comes complete with dust covers to protect balls and seals when not in use. Lanyard included.



Manifold Connection also available page 62.

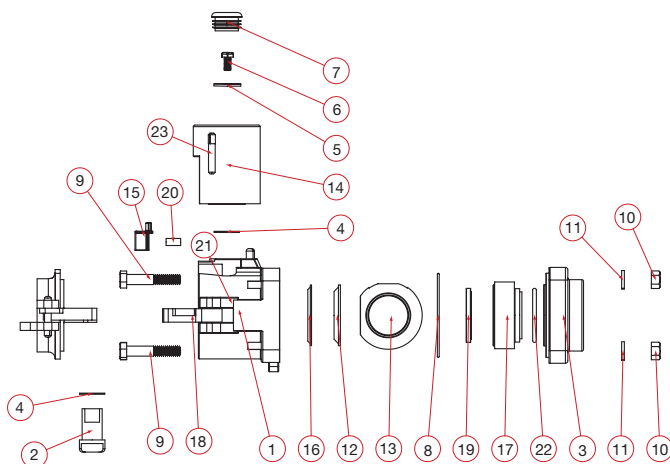


DMMT201A





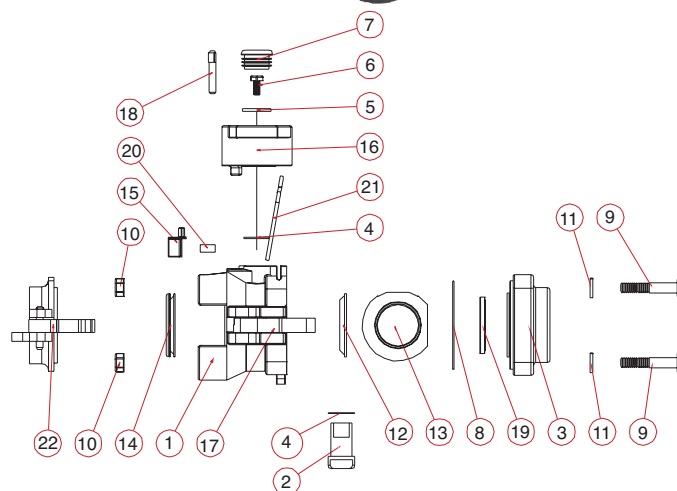
Male



## REPLACEMENT PARTS DM150A & DM200A

| ITEM | PART NO   | DESCRIPTION                  | QTY | PRICE      |
|------|-----------|------------------------------|-----|------------|
| 1    | DM20254   | Male Dry-Mate Body           | 1   | \$109.26   |
| 2    | VS20151*  | Stem                         | 1   | \$9.59     |
| 3    | DM20257   | 1½" Female NPT End Plate     | 1   | \$12.58    |
| 3    | DM20256   | 2" Female NPT End Plate      | 1   | \$12.58    |
| 3    | V20291    | 2" Female Manifold End Plate | 1   | \$15.61    |
| 3    | DM20257B  | 1½" Female BSP End Plate     | 1   | \$12.58    |
| 3    | DM20256B  | 2" Female BSP End Plate      | 1   | \$12.58    |
| 3    | DMMT20256 | 2" Male NPT End Plate        | 1   | \$17.09    |
| 4    | V20060*   | Thrust Bearing               | 2   | \$2.11     |
| 5    | V20021    | Handle Flat Washer           | 1   | \$0.42     |
| 6    | V20020    | Handle Bolt                  | 1   | \$0.84     |
| 7    | V20353C   | Handle Plug                  | 1   | \$2.11     |
| 8    | V21204V*  | FKM (viton type) Body O-Ring | 1   | \$4.16     |
| 9    | V20010SS  | Body Bolts                   | 1   | \$1.03     |
| 10   | V20019    | ¾" 16 SS Hex Nut             | 4   | \$1.03     |
| 11   | V20018    | ¾" Lock Washer               | 4   | \$0.42     |
| 12   | DB20258*  | Seat                         | 4   | \$22.91    |
| 13   | DB20255*  | Ball                         | 1   | \$32.34    |
| 14   | DM20153M  | Male Handle                  | 1   | \$16.95    |
| 14   | DB20153M  | Low Profile Handle           | 1   | \$16.95    |
| 15   | DB20288*  | Anti-Rotation Button         | 1   | \$3.31     |
| 16   | DB20290*  | FKM (viton type) Face Seal   | 1   | \$14.86    |
| 16   | DM20295A  | EPDM Face Seal               | 1   | \$45.46    |
| 16   | DM20296   | Kalrez® Face Seal            | 1   | \$1,669.01 |
| 17   | DB20294*  | Valve Insert                 | 2   | \$33.30    |
| 18   | DM20300   | Cam                          | 2   | \$12.81    |
| 19   | V20258A*  | End Plate Seat               | 1   | \$9.59     |
| 20   | DB20281   | Button Spring                | 1   | \$3.49     |
| 21   | DM200CAP  | Dust Cap                     | 1   | \$69.42    |
| 22   | DM20265   | Spacer O-Ring                | 2   | \$5.50     |
| 23   | 200P      | Pin                          | 1   | \$1.00     |
| N/S  | V20207A   | Lanyard                      | 1   | \$2.38     |
| N/S  | DM20200A  | Repair Kit                   | 1   | \$131.12   |

Female



## REPLACEMENT PARTS DM150D & DM200D

| ITEM | PART NO  | DESCRIPTION                  | QTY | PRICE      |
|------|----------|------------------------------|-----|------------|
| 1    | DM20254F | Female Dry-Mate Body         | 1   | \$109.26   |
| 1    | DM20254T | Male Bolted TFE Body         | 1   | \$109.26   |
| 2    | VS20151* | Stem                         | 1   | \$9.59     |
| 3    | DM20257  | 1½" NPT End Plate            | 1   | \$12.58    |
| 3    | DM20256  | 2" NPT End Plate             | 1   | \$12.58    |
| 3    | V20294   | 1½" Manifold End Plate       | 1   | \$15.49    |
| 3    | DM20257B | 1½" BSP End Plate            | 1   | \$12.58    |
| 3    | DM20256B | 2" BSP End Plate             | 1   | \$12.58    |
| 4    | V20060*  | Thrust Bearing               | 2   | \$2.11     |
| 5    | V20021   | Handle Flat Washer           | 1   | \$0.42     |
| 6    | V20020   | Handle Bolt                  | 1   | \$0.84     |
| 7    | V20353C  | Handle Plug                  | 1   | \$2.11     |
| 8    | V21204V* | FKM (viton type) Body O-Ring | 1   | \$4.16     |
| 8    | V21204   | TFE End Plate Body Gasket    | 1   | \$4.33     |
| 9    | V20010SS | Body Bolts                   | 1   | \$1.03     |
| 10   | V20019   | ¾" 16 SS Hex Nut             | 4   | \$1.03     |
| 11   | V20018   | ¾" Lock Washer               | 4   | \$0.42     |
| 12   | DB20258* | Seat                         | 4   | \$22.91    |
| 13   | DB20255* | Ball                         | 1   | \$32.34    |
| 14   | DM20294A | FKM (viton type) Face Seal   | 1   | \$45.46    |
| 14   | DM20295A | EPDM Face Seal               | 1   | \$45.46    |
| 14   | DM20296  | Kalrez® Face Seal            | 1   | \$1,669.01 |
| 15   | DB20288* | Anti-Rotation Button         | 1   | \$3.31     |
| 16   | DM20153F | Female Handle                | 1   | \$16.95    |
| 17   | DM200KX  | Cam Arm                      | 1   | \$19.04    |
| 18   | 200P     | Pin                          | 2   | \$1.00     |
| 19   | V20258A* | End Plate Seat               | 2   | \$9.59     |
| 20   | DB20281* | Button Spring                | 1   | \$3.49     |
| 21   | DM20289  | Locking Yoke                 | 1   | \$12.68    |
| 22   | DM200PL  | Dust Plug                    | 1   | \$67.28    |
| N/S  | V20207A  | Lanyard                      | 1   | \$2.38     |
| N/S  | DM20200D | Repair Kit                   | 1   | \$131.12   |

Valve repair kits contain items marked with asterisk\*.

# 1" Full Port Stainless Steel Dry-Disconnect



## FEATURES

- 316 stainless steel construction.
- FKM (viton type), EPDM & Kalrez face seals.
- 100% PTFE ball seats.
- 100 P.S.I. maximum operating pressure.
- 300°F maximum operating temperature.
- Spillage Data: 1" = 1ml, 1½" = 2ml
- When liquid is flowing, Dry-Mate halves cannot be uncoupled without turning handles to closed position.
- When Dry-Mate halves are apart, handles cannot be turned to open position.

## APPLICATIONS

- Agriculture
- Industrial
- Pharmaceutical
- Chemical processing

## SIZES

- Sizes: 1" Full Port, 1½" Full Port and 2" Standard Port (Female NPT & BSP Threads)

Available with Female NPT or BSP Threads



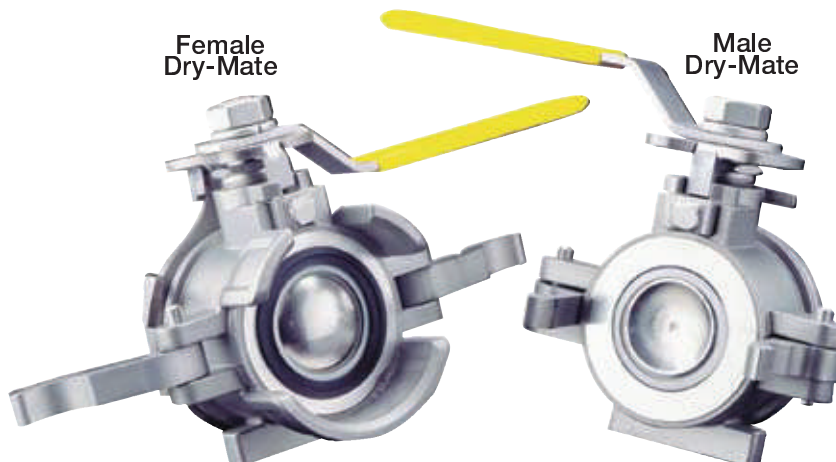
## PREVENTS ACCIDENTAL SPILLS AND EXPOSURE!

Male & Female shown coupled together.  
Male & Female sold separately as shown below.

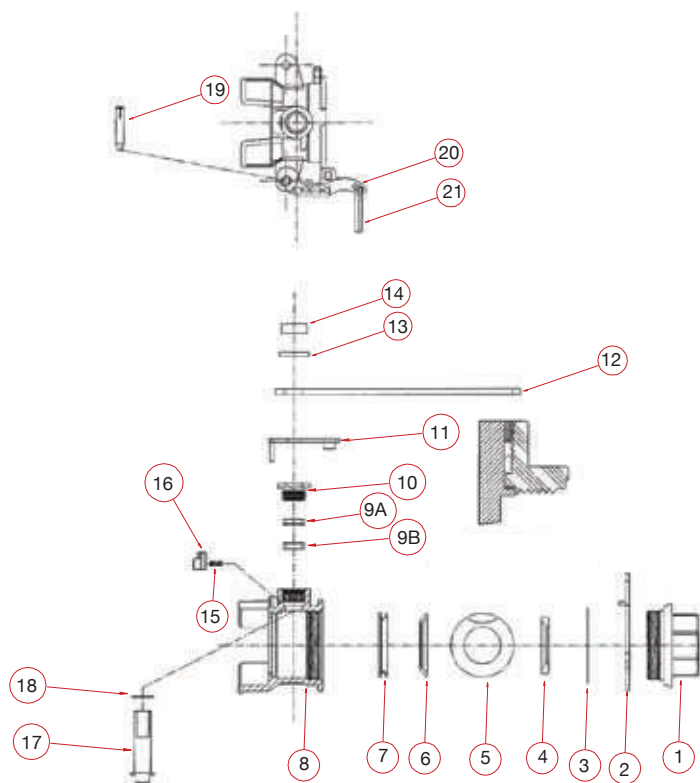
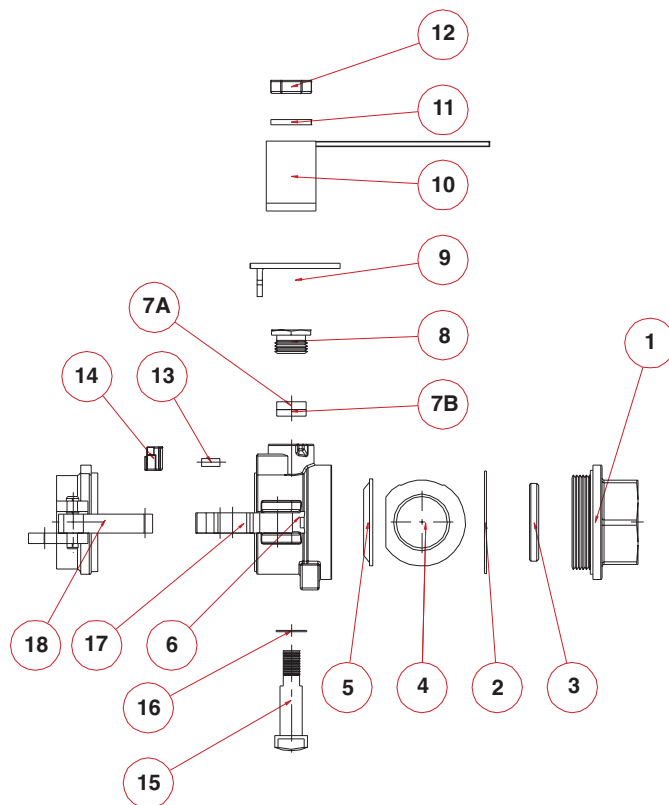
| 1" FULL PORT STAINLESS STEEL DRY-MATE |                                         |         |           |                   |     |            |
|---------------------------------------|-----------------------------------------|---------|-----------|-------------------|-----|------------|
| PART NO                               | DESCRIPTION                             | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE      |
| DM100ASS                              | 1" Male x NPT w/PTFE Seals              | 100     | 1"        | 1"                | 1   | \$502.73   |
| DM100ABSS                             | 1" Male x BSP w/PTFE Seals              | 100     | 1"        | 1"                | 1   | \$502.73   |
| DM100DSS                              | 1" Female x NPT w/FKM(viton type) Seals | 100     | 1"        | 1"                | 1   | \$607.20   |
| DM100DSSE                             | 1" Female x NPT w/EPDM Seals            | 100     | 1"        | 1"                | 1   | \$607.20   |
| DM100DSST                             | 1" Female x NPT w/Kalrez®Seals          | 100     | 1"        | 1"                | 1   | \$1,926.06 |
| DM100DBSS                             | 1" Female x BSP w/FKM(viton type) Seals | 100     | 1"        | 1"                | 1   | \$607.20   |
| DM100DBSSE                            | 1" Female x BSP w/EPDM Seals            | 100     | 1"        | 1"                | 1   | \$607.20   |
| DM100DBSST                            | 1" Female x BSP w/Kalrez®Seals          | 100     | 1"        | 1"                | 1   | \$1,926.06 |



Male & Female sold separately as shown below.







## REPLACEMENT PARTS DM100ASS

| ITEM | PART NO    | DESCRIPTION        | QTY | PRICE    |
|------|------------|--------------------|-----|----------|
| 1    | DM10257SS  | 1" NPT End Plate   | 1   | \$87.41  |
| 1    | DM10257BSS | 1" BSP End Plate   | 1   | \$87.41  |
| 2    | VSS10204*  | Body Gasket        | 1   | \$7.53   |
| 3    | VSS10258*  | Seat               | 1   | \$7.53   |
| 4    | DM10255SS* | Ball               | 1   | \$37.15  |
| 5    | DM10258*   | Seat               | 1   | \$14.00  |
| 6    | DM10254MSS | Body               | 1   | \$288.46 |
| 7A   | VSS10160F* | Stem Packing       | 1   | \$4.51   |
| 7B   | VSS10160M* | Stem Packing       | 1   | \$4.51   |
| 8    | VSS10159   | Gland Nut          | 1   | \$6.03   |
| 9    | DM10155SS  | Interlock Cam      | 1   | \$16.60  |
| 10   | DM10153MSS | Male Handle        | 1   | \$23.60  |
| 11   | VSS10021   | 7/16" Lock Washer  | 1   | \$1.21   |
| 12   | VSS10020   | 7/16" - 20 Jam Nut | 1   | \$4.51   |
| 13   | DM10281    | Spring             | 1   | \$16.32  |
| 14   | DM10288SS  | Handle Interlock   | 1   | \$17.49  |
| 15   | DM10151SS  | Stem               | 1   | \$17.92  |
| 16   | VSS10060*  | Thrust Bearing     | 1   | \$3.01   |
| 17   | DM10300    | Profile Insert     | 2   | \$17.49  |
| 18   | 100P       | Pin                | 2   | \$0.81   |
| N/S  | DM100CAP   | Poly Cap           | 1   | \$49.81  |
| N/S  | V20207     | Lanyard            | 1   | \$2.11   |
| N/S  | DM101SS    | Repair Kit         | 1   | \$101.40 |

Valve repair kits contain items marked with asterisk\*.

## REPLACEMENT PARTS DM100DSS

| ITEM | PART NO    | DESCRIPTION                 | QTY | PRICE      |
|------|------------|-----------------------------|-----|------------|
| 1    | DM10256SS  | 1" NPTF End Plate           | 1   | \$87.41    |
| 1    | DM10256BSS | 1" NPTF End Plate           | 1   | \$87.41    |
| 2    | DM10289SS  | Locking Yoke                | 1   | \$26.66    |
| 3    | VSS10204*  | Body Gasket                 | 1   | \$7.53     |
| 4    | VSS10258*  | Seat                        | 1   | \$7.53     |
| 5    | VSS10255*  | Ball                        | 1   | \$27.47    |
| 6    | DM10258*   | Seat                        | 1   | \$14.00    |
| 7    | DM10294    | FKM (viton type) Face Seal  | 1   | \$32.34    |
| 7    | DM10295    | EPDM Face Seal              | 2   | \$32.34    |
| 7    | DM10296    | Kalrez® Face Seal           | 1   | \$1,286.53 |
| 8    | DM10254FSS | Body                        | 1   | \$288.46   |
| 9A   | VSS10160F* | Stem Packing                | 1   | \$4.51     |
| 9B   | VSS10160M* | Stem Packing                | 1   | \$4.51     |
| 10   | VSS10159   | Gland Nut                   | 1   | \$6.03     |
| 11   | DM10154SS  | Interlock Cam               | 1   | \$17.49    |
| 12   | DM10153FSS | Female Handle               | 4   | \$21.34    |
| 13   | VSS10021   | 7/16" Lock Washer           | 4   | \$1.21     |
| 14   | VSS10020   | 7/16" - 20 Jam Nut          | 4   | \$4.51     |
| 15   | DM10281    | Spring                      | 1   | \$16.32    |
| 16   | DM10288SS  | Handle Interlock            | 1   | \$17.49    |
| 17   | DM10151SS  | Stem                        | 1   | \$17.92    |
| 18   | VSS10060*  | Thrust Bearing              | 1   | \$3.01     |
| 19   | 100P       | Pin                         | 2   | \$0.81     |
| 20   | DM100K     | Cam Arm                     | 2   | \$19.06    |
| 21   | 100RING    | Cam Arm Ring                | 2   | \$0.68     |
| N/S  | DM100PL    | Poly Plug                   | 1   | \$49.81    |
| N/S  | V20207     | Lanyard                     | 1   | \$2.11     |
| N/S  | DM102SSV   | FKM (viton type) Repair Kit | 1   | \$174.74   |
| N/S  | DM102SSE   | EPDM Repair Kit             | 1   | \$174.74   |
| N/S  | DM102SST   | Kalrez® Repair Kit          | 1   | \$1,650.66 |



# 1½" Full Port Stainless Steel Dry-Disconnect



## FEATURES

- 316 stainless steel construction.
- FKM (viton type), EPDM & Kalrez face seals.
- 100% PTFE ball seats.
- 100 P.S.I. maximum operating pressure.
- 300°F maximum operating temperature.
- Spillage Data: 1" = 1ml, 1½" = 2ml
- When liquid is flowing, Dry-Mate halves cannot be uncoupled without turning handles to closed position.
- When Dry-Mate halves are apart, handles cannot be turned to open position.

## APPLICATIONS

- Agriculture
- Industrial
- Pharmaceutical
- Chemical processing

## SIZES

- Sizes: 1" Full Port, 1½" Full Port (Female NPT & BSP Threads)

Available with Female NPT or BSP Threads



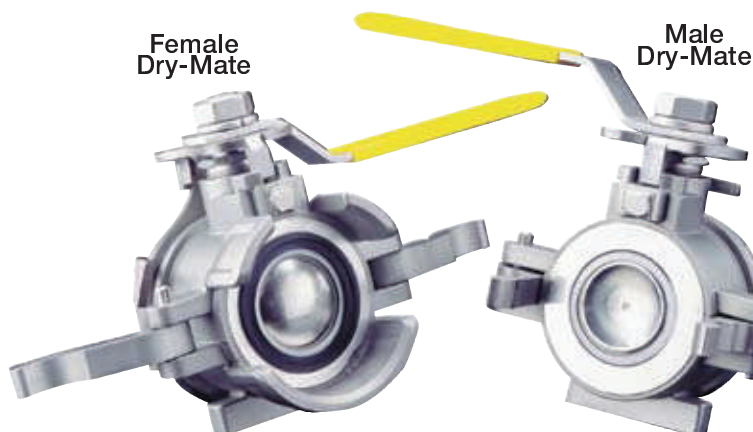
## PREVENTS ACCIDENTAL SPILLS AND EXPOSURE!

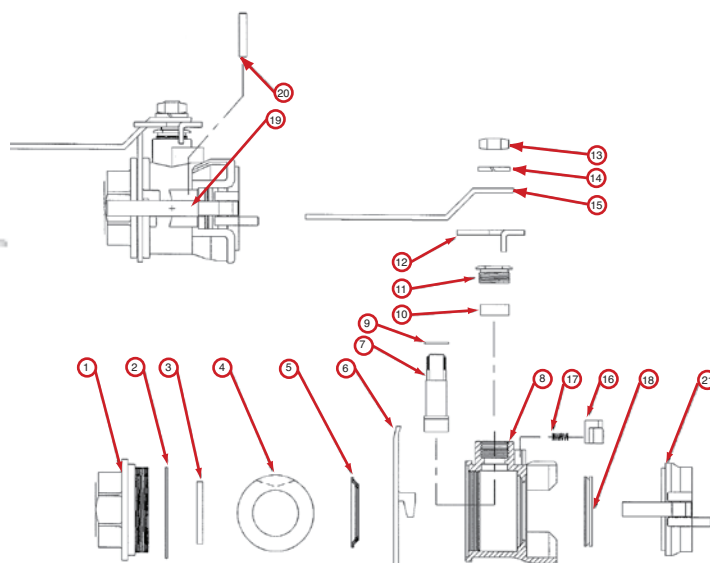
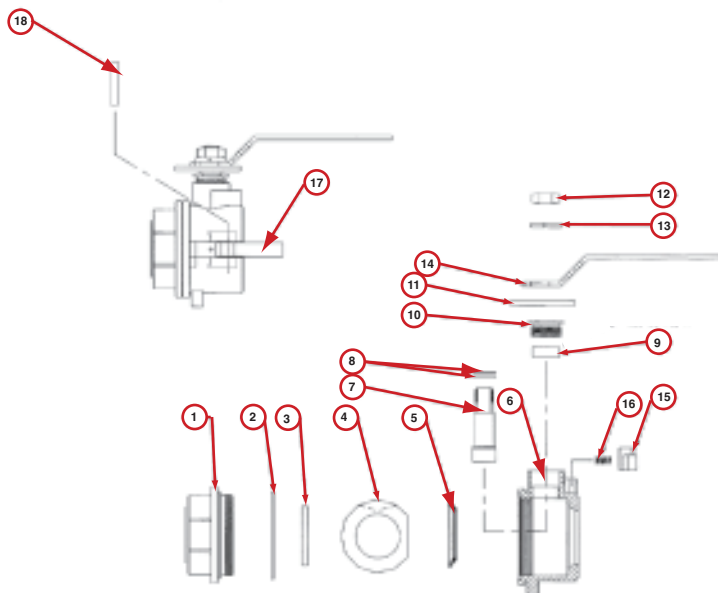
Male & Female shown coupled together.  
Male & Female sold separately as shown below.

| 1½" FULL PORT STAINLESS STEEL DRY-MATE |                                           |         |           |                   |     |            |
|----------------------------------------|-------------------------------------------|---------|-----------|-------------------|-----|------------|
| PART NO                                | DESCRIPTION                               | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE      |
| DM150ASS                               | 1½" Male x NPT w/PTFE Seals               | 100     | 1½"       | 1½"               | 1   | \$914.06   |
| DM150ABSS                              | 1½" Male x BSP w/PTFE Seals               | 100     | 1½"       | 1½"               | 1   | \$914.06   |
| DM150DSS                               | 1½" Female x NPT w/FKM (viton type) Seals | 100     | 1½"       | 1½"               | 1   | \$1,387.42 |
| DM150DSSE                              | 1½" Female x NPT w/EPDM Seals             | 100     | 1½"       | 1½"               | 1   | \$1,387.42 |
| DM150DSST                              | 1½" Female x NPT w/Kalrez® Seals          | 100     | 1½"       | 1½"               | 1   | \$3,835.80 |
| DM150DBSS                              | 1½" Female x BSP w/FKM (viton type) Seals | 100     | 1½"       | 1½"               | 1   | \$1,387.42 |
| DM150DBSSE                             | 1½" Female x BSP w/EPDM Seals             | 100     | 1½"       | 1½"               | 1   | \$1,387.42 |
| DM150DBSST                             | 1½" Female x BSP w/Kalrez® Seals          | 100     | 1½"       | 1½"               | 1   | \$3,056.44 |

**EASY  
CAM LEVER  
ACTION!  
THE MOST  
RECOGNIZED  
STYLE IN FLUID  
CONNECTION!**

Male & Female sold separately as shown below.





## REPLACEMENT PARTS DM150ASS

| ITEM | PART NO     | DESCRIPTION        | QTY | PRICE    |
|------|-------------|--------------------|-----|----------|
| 1    | DM15257MSS  | 1½" NPTF End Plate | 1   | \$166.08 |
| 1    | DM15257MBSS | 1½" BSP End Plate  | 1   | \$166.08 |
| 2    | DM15204SS*  | Body Gasket        | 1   | \$2.63   |
| 3    | VE20258A*   | Seat               | 1   | \$10.43  |
| 4    | DM15255MSS* | Ball               | 1   | \$57.34  |
| 5    | DB20258*    | Seat               | 1   | \$22.91  |
| 6    | DM15154MSS  | Valve Body         | 1   | \$384.60 |
| 7    | DM15151SS   | Stem               | 1   | \$42.39  |
| 8    | VSS15060*   | Thrust Bearing     | 1   | \$1.81   |
| 9    | VSS15160*   | Stem Packing       | 1   | \$6.03   |
| 10   | VSS15159    | Packing Nut        | 1   | \$16.18  |
| 11   | DM15155SS   | Interlock Cam      | 1   | \$38.26  |
| 12   | VSS15020    | 5/8" - 18 Jam Nut  | 1   | \$2.26   |
| 13   | VSS15021    | 5/8" Lock Washer   | 1   | \$2.26   |
| 14   | DM15153SS   | Handle             | 1   | \$55.07  |
| 15   | DM15288SS   | Button             | 1   | \$17.96  |
| 16   | DB20281     | Spring             | 2   | \$3.49   |
| 17   | DM20300     | Profile Insert     | 2   | \$12.81  |
| 18   | 200P        | Pin                | 2   | \$1.00   |
| N/S  | DM200ACAP   | Dust Cap           | 1   | \$69.42  |
| N/S  | V20207      | Lanyard            | 1   | \$2.11   |
| N/S  | DM201SS     | Repair Kit         | 1   | \$104.01 |

Items shown with \* are included in the repair kit. Only 1 face seal will be provided with each kit and it is identified by the repair kit number.

## REPLACEMENT PARTS DM150DSS

| ITEM | PART NO     | DESCRIPTION                 | QTY | PRICE      |
|------|-------------|-----------------------------|-----|------------|
| 1    | DM15257FSS  | 1½" NPTF End Plate          | 1   | \$166.08   |
| 1    | DM15257FBSS | 1½" BSP End Plate           | 1   | \$166.08   |
| 2    | DM15204SS*  | Body Gasket                 | 1   | \$2.63     |
| 3    | V20258*     | Seat                        | 1   | \$9.59     |
| 4    | DM15255FSS* | Ball                        | 1   | \$119.32   |
| 5    | DB20258*    | Body                        | 1   | \$22.91    |
| 6    | DM15289SS   | Locking Yoke                | 1   | \$59.43    |
| 7    | DM15151SS   | Stem                        | 1   | \$42.39    |
| 8    | DM15154FSS  | Body                        | 1   | \$517.45   |
| 9    | VSS15060*   | Thrust Bearing              | 1   | \$1.81     |
| 10   | VSS15160*   | Stem Packing                | 1   | \$6.03     |
| 11   | VSS15159    | Packing Nut                 | 1   | \$16.18    |
| 12   | DM15154SS   | Interlock Cam               | 1   | \$38.26    |
| 13   | VSS15020    | 5/8" - 18 Jam Nut           | 1   | \$2.26     |
| 14   | VSS15021    | 5/8" Lock Washer            | 1   | \$2.26     |
| 15   | DM15153SS   | Handle                      | 1   | \$55.07    |
| 16   | DM15288SS   | Button                      | 1   | \$17.96    |
| 17   | DB20281     | Spring                      | 1   | \$3.49     |
| 18   | DM20294A*   | FKM (viton type) Face Seal  | 1   | \$45.46    |
| 18   | DM20295A    | EPDM Face Seal              | 1   | \$45.46    |
| 18   | DM20296     | Kalrez® Face Seal           | 1   | \$1,669.01 |
| 19   | DM200KX     | Cam Arm                     | 2   | \$19.04    |
| 20   | 200P        | Pin                         | 2   | \$1.00     |
| 21   | DM200APL    | Dust Plug                   | 1   | \$67.28    |
| N/S  | V20207      | Lanyard                     | 1   | \$2.11     |
| N/S  | DM202SSV    | FKM (viton type) Repair Kit | 1   | \$174.74   |
| N/S  | DM202SSE    | EPDM Repair Kit             | 1   | \$174.74   |
| N/S  | DM202SST    | Kalrez® Repair Kit          | 1   | \$1,914.11 |

# 2" Stainless Steel Dry-Disconnect



## FEATURES

- 316 stainless steel construction.
- FKM (viton type), EPDM & Kalrez face seals.
- 100% PTFE ball seats.
- 100 P.S.I. maximum operating pressure.
- 300°F maximum operating temperature.
- Spillage Data: 1" = 1ml, 1½" and 2" = 2ml
- When liquid is flowing, Dry-Mate halves cannot be uncoupled without turning handles to closed position.
- When Dry-Mate halves are apart, handles cannot be turned to open position.

## APPLICATIONS

- Agriculture
- Industrial
- Pharmaceutical
- Chemical processing

## SIZES

- Sizes: 2" Standard Port (Female NPT & BSP Threads)

Available with Female  
NPT or BSP Threads



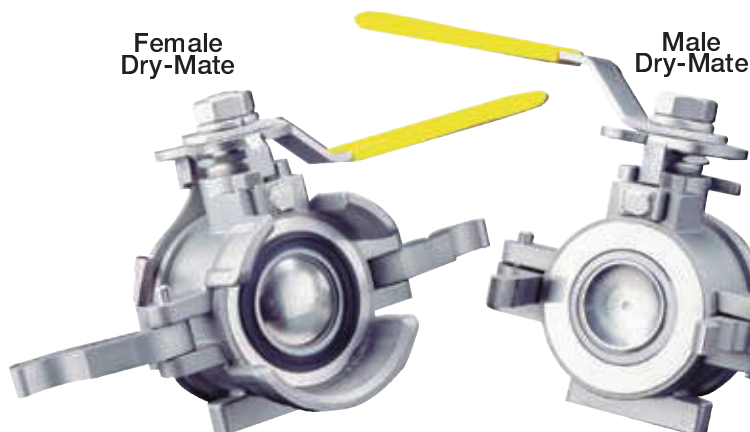
## PREVENTS ACCIDENTAL SPILLS AND EXPOSURE!

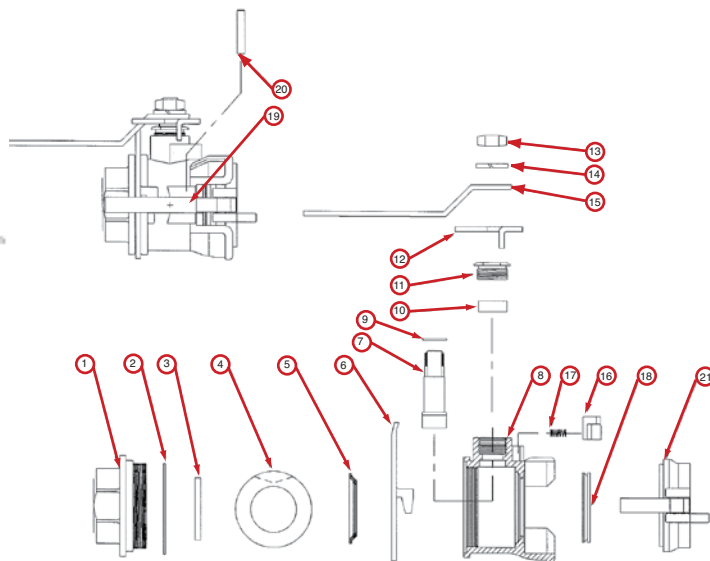
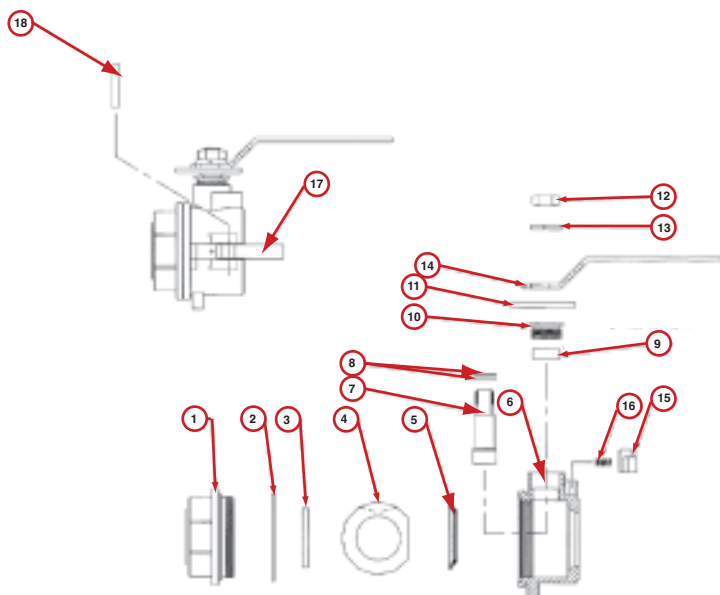
Male & Female shown coupled together.  
Male & Female sold separately as shown below.

| 2" STAINLESS STEEL DRY-MATE |                                          |            |              |                      |     |            |
|-----------------------------|------------------------------------------|------------|--------------|----------------------|-----|------------|
| PART NO                     | DESCRIPTION                              | MAX<br>PSI | PIPE<br>SIZE | OPENING<br>THRU BALL | QTY | PRICE      |
| DM200ASS                    | 2" Male x NPT w/PTFE Seals               | 100        | 2"           | 1½"                  | 1   | \$914.06   |
| DM200ABSS                   | 2" Male x BSP w/PTFE Seals               | 100        | 2"           | 1½"                  | 1   | \$914.06   |
| DM200DSS                    | 2" Female x NPT w/FKM (viton type) Seals | 100        | 2"           | 1½"                  | 1   | \$1,387.42 |
| DM200DSSE                   | 2" Female x NPT w/EPDM Seals             | 100        | 2"           | 1½"                  | 1   | \$1,387.42 |
| DM200DSST                   | 2" Female x NPT w/Kalrez® Seals          | 100        | 2"           | 1½"                  | 1   | \$3,803.16 |
| DM200DBSS                   | 2" Female x BSP w/FKM (viton type) Seals | 100        | 2"           | 1½"                  | 1   | \$1,387.42 |
| DM200DBSSE                  | 2" Female x BSP w/EPDM Seals             | 100        | 2"           | 1½"                  | 1   | \$1,387.42 |
| DM200DBSST                  | 2" Female x BSP w/Kalrez® Seals          | 100        | 2"           | 1½"                  | 1   | \$3,803.16 |



Male & Female sold separately as shown below.





## REPLACEMENT PARTS DM200ASS

| ITEM | PART NO     | DESCRIPTION           | QTY | PRICE    |
|------|-------------|-----------------------|-----|----------|
| 1    | DM15256MSS  | 2" NPT End Plate      | 1   | \$166.08 |
| 1    | DM15256MBSS | 2" Male BSP End Plate | 1   | \$166.08 |
| 2    | DM15204SS*  | Body Gasket           | 1   | \$2.63   |
| 3    | VE20258A*   | Seat                  | 1   | \$10.43  |
| 4    | DM15255MSS* | Ball                  | 1   | \$57.34  |
| 5    | DB20258*    | Seat                  | 1   | \$22.91  |
| 6    | DM15154MSS  | Valve Body            | 1   | \$384.60 |
| 7    | DM15151SS   | Stem                  | 1   | \$42.39  |
| 8    | VSS15060*   | Thrust Bearing        | 2   | \$1.81   |
| 9    | VSS15160*   | Stem Packing          | 1   | \$6.03   |
| 10   | VSS15159    | Packing Nut           | 1   | \$16.18  |
| 11   | DM15155SS   | Interlock Cam         | 1   | \$38.26  |
| 12   | VSS15020    | 5/8" - 18 Jam Nut     | 1   | \$2.26   |
| 13   | VSS15021    | 5/8" Lock Washer      | 1   | \$2.26   |
| 14   | DM15153SS   | Handle                | 1   | \$55.07  |
| 15   | DM15288SS   | Button                | 1   | \$17.96  |
| 16   | DB20281     | Spring                | 2   | \$3.49   |
| 17   | DM20300     | Profile Insert        | 2   | \$12.81  |
| 18   | 200P        | Pin                   | 2   | \$1.00   |
| N/S  | DM200ACAP   | Dust Cap              | 1   | \$69.42  |
| N/S  | V20207      | Lanyard               | 1   | \$2.11   |
| N/S  | DM201SS     | Repair Kit            | 1   | \$104.01 |

Items shown with \* are included in the repair kit. Only 1 face seal will be provided with each kit and it is identified by the repair kit number.

## REPLACEMENT PARTS DM200DSS

| ITEM | PART NO     | DESCRIPTION                 | QTY | PRICE      |
|------|-------------|-----------------------------|-----|------------|
| 1    | DM15256FSS  | 2" NPT End Plate            | 1   | \$166.08   |
| 1    | DM15256FBSS | 2" Female BSP End Plate     | 1   | \$166.08   |
| 2    | DM15204SS*  | Body Gasket                 | 1   | \$2.63     |
| 3    | V20258*     | Seat                        | 1   | \$9.59     |
| 4    | DM15255FSS* | Ball                        | 1   | \$119.32   |
| 5    | DB20258*    | Body                        | 1   | \$22.91    |
| 6    | DM15289SS   | Locking Yoke                | 1   | \$59.43    |
| 7    | DM15151SS   | Stem                        | 1   | \$42.39    |
| 8    | DM15154FSS  | Body                        | 1   | \$517.45   |
| 9    | VSS15060*   | Thrust Bearing              | 1   | \$1.81     |
| 10   | VSS15160*   | Stem Packing                | 1   | \$6.03     |
| 11   | VSS15159    | Packing Nut                 | 1   | \$16.18    |
| 12   | DM15154SS   | Interlock Cam               | 1   | \$38.26    |
| 13   | VSS15020    | 5/8" - 18 Jam Nut           | 1   | \$2.26     |
| 14   | VSS15021    | 5/8" Lock Washer            | 1   | \$2.26     |
| 15   | DM15153SS   | Handle                      | 1   | \$55.07    |
| 16   | DM15288SS   | Button                      | 1   | \$17.96    |
| 17   | DB20281     | Spring                      | 1   | \$3.49     |
| 18   | DM20294A*   | FKM (viton type) Face Seal  | 1   | \$45.46    |
| 18   | DM20295A    | EPDM Face Seal              | 1   | \$45.46    |
| 18   | DM20296     | Kalrez® Face Seal           | 1   | \$1,669.01 |
| 19   | DM200KX     | Cam Arm                     | 2   | \$19.04    |
| 20   | 200P        | Pin                         | 2   | \$1.00     |
| 21   | DM200APL    | Dust Plug                   | 1   | \$67.28    |
| N/S  | V20207      | Lanyard                     | 1   | \$2.11     |
| N/S  | DM202SSV    | FKM (viton type) Repair Kit | 1   | \$174.74   |
| N/S  | DM202SSE    | EPDM Repair Kit             | 1   | \$174.74   |
| N/S  | DM202SST    | Kalrez® Repair Kit          | 1   | \$1,914.11 |

# Closed Transfer System

## FEATURES

- Allows to safely and properly flush chemical containers.

**NEW!**



CTS200D



CTS200AR



| CLOSED TRANSFER SYSTEM ADAPTERS |                                    |         |           |     |          |
|---------------------------------|------------------------------------|---------|-----------|-----|----------|
| PART NO                         | DESCRIPTION                        | MAX PSI | PIPE SIZE | QTY | PRICE    |
| CTS200AR                        | Closed Mix Bottle Adapter          | 40      | 63 mm btl | 1   | \$110.31 |
| CTS200D                         | Tank Adapter w/2" Male NPT Threads | 40      | 2"        | 1   | \$183.86 |

Banjo's Closed Mix Fitting system consist of three parts, closed mix bottle adapter (CTS200AR), closed mix tank adapter (CTS200D) and a Banjo ball valve.

1. Attach Banjo ball valve to side port of CTS200AR.
2. Attach fresh water rinse source to Banjo ball valve, your CTS200AR is now properly plumbed to safely dispense and flush a chemical container.
3. Remove the cap from your chemical container without damaging the aluminum safety seal underneath.
4. Screw CT200AR onto the chemical container. Be sure that it is properly threaded and tight.
5. Tip chemical container with CT200AR over and thread CT200AR into CTS200D. This releases chemical into your mix tank.
6. Once all chemical has been dispensed into mix tank open Banjo ball valve to flush chemical container of all chemical residue.
7. This flushing process should be repeated three times for a complete rinse.
8. Remove fitting from chemical container, fittings are reusable. Discard empty container per county specifications.



# IBC (Intermediate Bulk Container) Spin Weld Ball Valves

## FEATURES

- PTFE valve seats.
- FKM (viton type) stem o-rings.
- Polypropylene.
- Zinc alloy collar.
- Maximum operating pressure 20 P.S.I. @ 70° F.
- FKM (viton type), EPDM, and Santoprene collar gaskets available for most valves.
- Handles close in either direction.

**See caps  
on page 87!**

Identifying  
collar number  
found here.



WSF223MR Mamor®



WSMT223MR Mamor®



WSF210 Schutz® w/Alignment grooves



**Alignment  
Grooves!**



WSMT210 Schutz® w/Alignment grooves

## SPINWELD BALL VALVES

| PART NO    | DESCRIPTION                                           | GASKET MATERIAL  | COLLAR FITS       | COLLAR NUMBER | QTY    | PRICE   |
|------------|-------------------------------------------------------|------------------|-------------------|---------------|--------|---------|
| WSMT223MR  | 2" Poly Spinweld Valve w/NPT Outlet                   | EPDM             | Mamor®            | V22283 C & D  | 24/box | \$69.31 |
| WSF223MR   | 2" Poly Spinweld Valve w/QDC Outlet                   | EPDM             | Mamor®            | V22283 C & D  | 24/box | \$69.31 |
| WSMT223MRV | 2" Poly Spinweld Valve w/NPT Outlet                   | FKM (viton type) | Mamor®            | V22283 C & D  | 24/box | \$69.31 |
| WSF223MRV  | 2" Poly Spinweld Valve w/QDC Outlet                   | FKM (viton type) | Mamor®            | V22283 C & D  | 24/box | \$69.31 |
| WSF210     | 2" Poly Spinweld Valve w/QDC Outlet                   | Santoprene       | Schutz® Alignment | V20280 A & B  | 24/box | \$61.71 |
| WSF210FSA  | 2" Poly Spinweld Valve w/QDC Outlet, Foil Seal & Cap  | Santoprene       | Schutz® Alignment | V20280 A & B  | 24/box | \$68.11 |
| WSMT210    | 2" Poly Spinweld Valve w/NPT Outlet                   | Santoprene       | Schutz® Alignment | V20280 A & B  | 24/box | \$61.71 |
| WSMT210FSA | 2" Poly Spinweld Valve w/NPT Outlet, Foil Seal & Cap  | Santoprene       | Schutz® Alignment | V20280 A & B  | 24/box | \$48.14 |
| W230233    | 2" Poly Spinweld Valve w/NPT Outlet & Cap             | FKM (viton type) | Mamor®            | V22283 C & D  | 24/box | \$78.34 |
| W230234    | 2" Poly Spinweld Valve w/QDC Outlet & Cap             | FKM (viton type) | Mamor®            | V22283 C & D  | 24/box | \$78.34 |
| W230235    | 2" Poly Spinweld Valve w/NPT Outlet & Cap             | EPDM             | Mamor®            | V22283 C & D  | 24/box | \$74.50 |
| W230236    | 2" Poly Spinweld Valve w/QDC Outlet & Cap             | EPDM             | Mamor®            | V22283 C & D  | 24/box | \$74.50 |
| W230237    | 2" Poly Spinweld Valve w/NPT Outlet & Cap & Foil Seal | FKM (viton type) | Mamor®            | V22283 C & D  | 24/box | \$79.64 |
| W230238    | 2" Poly Spinweld Valve w/QDC Outlet & Cap & Foil Seal | FKM (viton type) | Mamor®            | V22283 C & D  | 24/box | \$79.64 |
| W230239    | 2" Poly Spinweld Valve w/NPT Outlet & Cap & Foil Seal | EPDM             | Mamor®            | V22283 C & D  | 24/box | \$75.78 |
| W230240    | 2" Poly Spinweld Valve w/QDC Outlet & Cap & Foil Seal | EPDM             | Mamor®            | V22283 C & D  | 24/box | \$74.45 |

**Note:** Please contact our sales department for optional gasket materials.

# IBC (Intermediate Bulk Container) Bolted Ball Valves

## FEATURES

- PTFE valve seats.
- FKM (viton type) stem o-rings.
- Polypropylene.
- Lightweight.
- Zinc alloy collar.
- Maximum operating pressure 20 P.S.I. @ 70° F.
- FKM (viton type), EPDM, and collar gaskets available.



F-ISO11 Greif®

Identifying collar number found here.



VSMT202MR Greif®

| BOLTED BALL VALVES |                                                       |                  |             |               |        |         |
|--------------------|-------------------------------------------------------|------------------|-------------|---------------|--------|---------|
| PART NO            | DESCRIPTION                                           | GASKET MATERIAL  | COLLAR FITS | COLLAR NUMBER | QTY    | PRICE   |
| F-ISO11            | 2" Male QDC x V20283 Metal Collar w/Cap & Lanyard     | FKM (viton type) | Greif®      | V20283 A & B  | 24/box | \$83.80 |
| F-IS100            | 2" Poly Spinweld Valve w/NPT Outlet w/Cap             | EPDM             | Greif®      | V20283 A & B  | 24/box | \$55.97 |
| VSF202MR           | 2" Male QDC x V20283 Metal Collar w/Out Cap & Lanyard | FKM (viton type) | Greif®      | V20283 A & B  | 24/box | \$77.91 |
| VSMT202MR          | 2" Male NPT x V20283 Metal Collar                     | FKM (viton type) | Greif®      | V20283 A & B  | 24/box | \$68.77 |

## FDA Union Valves

## FEATURES

- Precision molded in glass reinforced polypropylene, for strength and chemical resistance.
- PTFE seats for smooth operation and proper sealing characteristics.
- Double EPDM O-rings in stem area for extra sealing protection.
- Interlocking body and end plate to allow easy thread connection when installing valves.
- Maximum operating pressure 100 P.S.I. at 70°F.



NIP2101



MBP200



| UNION VALVE ADAPTERS |                                     |     |         |
|----------------------|-------------------------------------|-----|---------|
| PART NO              | DESCRIPTION                         | QTY | PRICE   |
| MBP200               | 2" Buttress x 2" NPT Assembly-White | 1   | \$13.79 |
| NIP2101              | 2" NPT x BSP Nipple-White           | 1   | \$15.85 |

| UNION VALVE |                         |     |         |
|-------------|-------------------------|-----|---------|
| PART NO     | DESCRIPTION             | QTY | PRICE   |
| UV204FPFD   | 2" FDA Union Valve-EPDM | 1   | \$91.00 |

# IBC (Intermediate Bulk Container) Polypropylene Bolted Ball Valves

## FEATURES

- Glass filled polypropylene.
- Lightweight.
- Maximum operating pressure 100 P.S.I. @ 70°F. & 75 P.S.I. @ 150°F.



| POLY BOLTED BALL VALVES |                                     |                   |        |         |
|-------------------------|-------------------------------------|-------------------|--------|---------|
| PART NO                 | DESCRIPTION                         | OPENING THRU BALL | QTY    | PRICE   |
| VFB201                  | 2" Male QDC x 2" Female QDC         | 1½"               | 24/box | \$97.75 |
| 200G                    | 2" EPDM Coupling Gasket             | N/A               | 50/bag | \$1.06  |
| 200GV                   | 2" FKM (viton type) Coupling Gasket | N/A               | 50/bag | \$18.82 |

| POLY BOLTED BALL VALVES |                                          |                   |        |         |
|-------------------------|------------------------------------------|-------------------|--------|---------|
| PART NO                 | DESCRIPTION                              | OPENING THRU BALL | QTY    | PRICE   |
| VSFB201                 | 2" Male QDC Stubby Valve x 2" Female QDC | 1½"               | 24/box | \$99.18 |
| 200G                    | 2" EPDM Coupling Gasket                  | N/A               | 50/bag | \$1.06  |
| 200GV                   | 2" FKM (viton type) Coupling Gasket      | N/A               | 50/bag | \$18.82 |
| VS20200                 | Repair Kit                               | N/A               | 1      | \$46.51 |



Cap & Lanyard not shown.

| POLY BOLTED BALL VALVES |                                                      |                   |        |          |
|-------------------------|------------------------------------------------------|-------------------|--------|----------|
| PART NO                 | DESCRIPTION                                          | OPENING THRU BALL | QTY    | PRICE    |
| VSFTF202A               | 2" Male QDC x Four Bolt Tank Adapter w/Cap & Lanyard | 1½"               | 24/box | \$101.75 |
| VTF200GT                | PTFE Encapsulated Silicone O-Ring for VSFTF202A      | N/A               | 1      | \$30.12  |
| VS20200                 | Repair Kit                                           | N/A               | 1      | \$46.51  |

# Poly IBC/Spray Tank Lids



## 6" IBC SOLID TANK LIDS

| PART NO | DESCRIPTION                | GASKET     | QTY | PRICE   |
|---------|----------------------------|------------|-----|---------|
| TL650S  | 6" Solid Tank Lid w/Gasket | Santoprene | 1   | \$14.83 |
| TL650E  | 6" Solid Tank Lid w/Gasket | EPDM       | 1   | \$16.23 |

## 6" IBC TANK LIDS W/UNVENTED 2" PLUG

| PART NO | DESCRIPTION                             | GASKET     | QTY | PRICE   |
|---------|-----------------------------------------|------------|-----|---------|
| TL651S  | 6" Tank Lid w/Unvented 2" Plug w/Gasket | Santoprene | 1   | \$16.12 |
| TL651E  | 6" Tank Lid w/Unvented 2" Plug w/Gasket | EPDM       | 1   | \$17.52 |

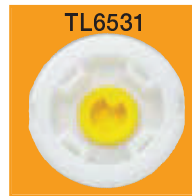


## 6" IBC TANK LIDS W/VENTED 2" PLUG

| PART NO | DESCRIPTION                           | GASKET     | QTY | PRICE   |
|---------|---------------------------------------|------------|-----|---------|
| TL652S  | 6" Tank Lid w/Vented 2" Plug w/Gasket | Santoprene | 1   | \$17.14 |
| TL652E  | 6" Tank Lid w/Vented 2" Plug w/Gasket | EPDM       | 1   | \$18.53 |

## 5 1/2" IBC TANK LIDS FOR SPRAY TANKS

| PART NO | DESCRIPTION                | QTY | PRICE   |
|---------|----------------------------|-----|---------|
| TL600   | 5 1/2" Non-Vented Tank Lid | 1   | \$9.60  |
| TL600C  | 5 1/2" Vented Tank Lid     | 1   | \$13.72 |



## 6" IBC TANK LIDS W/VENTED 2" PLUG

| PART NO  | DESCRIPTION                      | GASKET | QTY | PRICE   |
|----------|----------------------------------|--------|-----|---------|
| TL652EPA | 6" EPA Tank Lid w/Vented 2" Plug | EPDM   | 1   | \$21.58 |

## 2" VENTED & NON-VENTED BUNG PLUGS

| PART NO  | DESCRIPTION                             | QTY | PRICE   |
|----------|-----------------------------------------|-----|---------|
| 231EPA   | EPA plug with Non-Removable Vent        | 1   | \$8.02  |
| 231MPT   | 2" MPT Solid Bung w/EPDM Gasket         | 1   | \$6.97  |
| 231MPTBN | 2" MPT Solid Bung w/Buna Nitrile Gasket | 1   | \$6.97  |
| TL6531   | 2" Vented Plug w/EPDM Gasket            | 1   | \$14.16 |





# IBC (Intermediate Bulk Container) Polypropylene Accessories

DIN60 (Buttress)  
Thread



DIN60 (Buttress)  
Thread



## 2" BUTTRESS X 2" MALE NPT

| PART NO | DESCRIPTION                                | GASKET     | QTY | PRICE   |
|---------|--------------------------------------------|------------|-----|---------|
| TA283   | 2" Buttress x 2" Male NPT Threads w/Gasket | Santoprene | 1   | \$22.43 |

## 2" BUTTRESS X 2" MALE ADAPTER

| PART NO | DESCRIPTION                                | GASKET     | QTY | PRICE   |
|---------|--------------------------------------------|------------|-----|---------|
| TA283QD | 2" Buttress x 2" Male Adapter QDC w/Gasket | Santoprene | 1   | \$17.47 |



201FPT



211FPT



60FDIN

## 2" FEMALE NPT CAP

| PART NO | DESCRIPTION                     | QTY | PRICE  |
|---------|---------------------------------|-----|--------|
| 201FPT  | 2" Female NPT Cap               | 1   | \$4.87 |
| 211FPT  | 2" Female NPT Cap               | 1   | \$4.87 |
| 60FDIN  | 60 MM DIN Cap (Buttress Thread) | 1   | \$4.87 |

V20207



## LANYARD

| PART NO | DESCRIPTION              | QTY | PRICE  |
|---------|--------------------------|-----|--------|
| V20207  | 11" Polyurethane Lanyard | 1   | \$2.11 |



200CAPSH



200CAP



201CAPSH



202CAP

## 2" CAM LEVER DUST CAP

| PART NO  | DESCRIPTION                        | QTY | PRICE   |
|----------|------------------------------------|-----|---------|
| 200CAPSH | 2" Cam Lever Dust Cap w/short arms | 1   | \$19.58 |
| 200CAP   | 2" Cam Lever Dust Cap              | 1   | \$19.58 |

## 2" CAM LEVER DUST CAP

| PART NO  | DESCRIPTION                                | QTY | PRICE   |
|----------|--------------------------------------------|-----|---------|
| 201CAPSH | 2" Cam Lever Dust Cap w/short arms & rings | 1   | \$19.58 |
| 202CAP   | 2" Cam Lever Dust Cap                      | 1   | \$14.24 |



# Poly Bolted Tank Flanges

## FEATURES

- Stainless steel bolts.
- Bolt head plugs sealed ultrasonically.
- Glass reinforced polypropylene.
- EPDM gaskets standard & FKM (viton type) available.



BF300

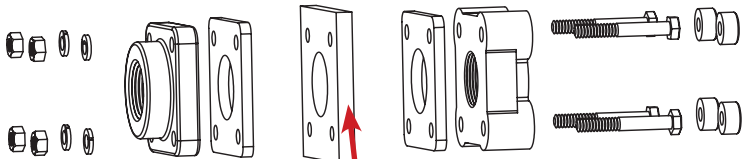


| POLY BOLTED TANK FLANGES |                                                    |     |          |
|--------------------------|----------------------------------------------------|-----|----------|
| PART NO                  | DESCRIPTION                                        | QTY | PRICE    |
| BF075                    | ¾" x 1" Threaded EPDM Flange                       | 27  | \$47.54  |
| BF075V                   | ¾" x 1" Threaded FKM (viton type) Flange           | 27  | \$93.64  |
| BF100                    | 1" x 1" Threaded EPDM Flange                       | 27  | \$47.54  |
| BF100V                   | 1" x 1" Threaded FKM (viton type) Flange           | 27  | \$64.41  |
| BF125                    | 1¼" x 1" Threaded EPDM Flange                      | 27  | \$47.54  |
| BF150                    | 1½" x 2" Threaded EPDM Flange                      | 27  | \$38.99  |
| BF150V                   | 1½" x 2" Threaded FKM (viton type) Flange          | 27  | \$129.66 |
| BF200                    | 2" x 2" Threaded EPDM Flange                       | 27  | \$38.99  |
| BF200V                   | 2" x 2" Threaded FKM (viton type) Flange           | 27  | \$129.66 |
| BF220                    | 2" x 2" Full Port Threaded EPDM Flange             | 27  | \$51.01  |
| BF220V                   | 2" x 2" Full Port Threaded FKM (viton type) Flange | 27  | \$129.66 |
| BF300                    | 3" x 3" Threaded EPDM Flange                       | 16  | \$69.60  |
| BF300V                   | 3" x 3" Threaded FKM(viton type) Flange            | 16  | \$195.95 |

| BOLTED TANK FLANGE GASKETS |                                      |     |          |
|----------------------------|--------------------------------------|-----|----------|
| PART NO                    | DESCRIPTION                          | QTY | PRICE    |
| BF100GE                    | 1" Full EPDM Gasket                  | 1   | \$3.58   |
| BF100GV                    | 1" Full FKM(viton type) Gasket       | 1   | \$30.83  |
| BF200GE                    | 1½" & 2" Full EPDM Gasket            | 1   | \$5.04   |
| BF200GV                    | 1½" & 2" Full FKM(viton type) Gasket | 1   | \$30.06  |
| BF220GE                    | 2" Full Port EPDM Gasket             | 1   | \$12.98  |
| BF220GV                    | 2" Full Port FKM(viton type) Gasket  | 1   | \$69.15  |
| BF300GE                    | 3" Full EPDM Gasket                  | 1   | \$13.68  |
| BF300GV                    | 3" Full FKM(viton type) Gasket       | 1   | \$141.19 |

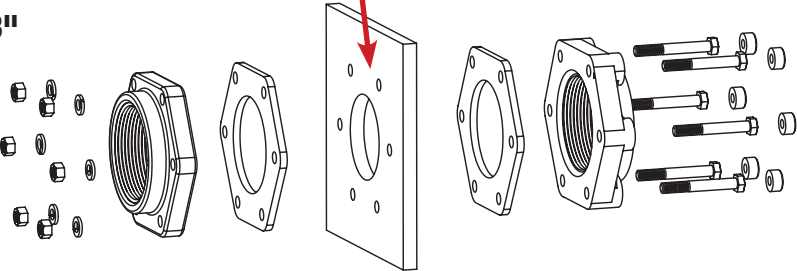
Longer bolts available for thick tank walls. See page 194.

¾" — 2"



Tank Wall

3"



# Poly Bolted "Bottom Drain"™ Tank Flanges

PATENTED

## FEATURES

- Stainless steel bolts.
- Bolt head plugs sealed ultrasonically.
- Glass reinforced polypropylene.
- EPDM gaskets standard.  
FKM (viton type) available.
- Longer bolts available.

**Longer bolts  
Available on  
page  
194!**

**Ultrasonically  
Sealed!**

**100% Fully  
Drainable!**

Foot Gasket (4 ea.)

Full Gasket (1 ea.)

Tank Wall Bottom

Tank not included

TANK WALL BOTTOM

- Allows 100% Rinse Free – No Sediment Build Up!
- Excellent for avoiding herbicide cross contamination!
- Bolted design for superior strength!
- Fits most cone bottom & chemical inductor tanks, 30 gallon sand larger.



BF300BD

### POLY BOTTOM DRAIN BOLTED TANK FLANGES

| PART NO  | DESCRIPTION                                        | QTY | PRICE    |
|----------|----------------------------------------------------|-----|----------|
| BF075BD  | 3/4" x 1" Threaded EPDM Flange                     | 27  | \$47.54  |
| BF075BDV | 3/4" x 1" Threaded FKM (viton type) Flange         | 27  | \$72.03  |
| BF100BD  | 1" x 1" Threaded EPDM Flange                       | 27  | \$47.54  |
| BF100BDV | 1" x 1" Threaded FKM (viton type) Flange           | 27  | \$72.03  |
| BF125BD  | 1 1/4" x 1" Threaded EPDM Flange                   | 27  | \$47.54  |
| BF125BDV | 1 1/4" x 1" Threaded FKM (viton type) Flange       | 27  | \$72.03  |
| BF150BD  | 1 1/2" x 2" Threaded EPDM Flange                   | 27  | \$45.23  |
| BF150BDV | 1 1/2" x 2" Threaded FKM (viton type) Flange       | 27  | \$136.88 |
| BF200BD  | 2" x 2" Threaded EPDM Flange                       | 27  | \$45.23  |
| BF200BDV | 2" x 2" Threaded FKM (viton type) Flange           | 27  | \$129.66 |
| BF220BD  | 2" x 2" Full Port Threaded EPDM Flange             | 27  | \$51.01  |
| BF220BDV | 2" x 2" Full Port Threaded FKM (viton type) Flange | 27  | \$136.88 |
| BF300BD  | 3" x 3" Threaded EPDM Flange                       | 16  | \$84.31  |
| BF300BDV | 3" x 3" Threaded FKM(viton type) Flange            | 27  | \$208.91 |

### POLY BOTTOM DRAIN BOLTED TANK FLANGE GASKETS

| PART NO  | DESCRIPTION                                                      | QTY | PRICE    |
|----------|------------------------------------------------------------------|-----|----------|
| BF100GE  | 3/4", 1" & 1 1/4" Full EPDM Gasket                               | 1   | \$3.58   |
| BF100GV  | 3/4", 1" & 1 1/4" Full FKM(viton type) Gasket                    | 1   | \$30.83  |
| BF100GRE | 3/4", 1" & 1 1/4" Foot EPDM Gasket                               | 4   | \$1.43   |
| BF100GRV | 3/4", 1" & 1 1/4" Foot FKM(viton type) Gasket                    | 4   | \$7.21   |
| BF200GE  | 1 1/2" & 2" Full EPDM Gasket                                     | 1   | \$5.04   |
| BF200GV  | 1 1/2" & 2" Full FKM(viton type) Gasket                          | 1   | \$30.06  |
| BF200GFE | 1 1/2" & 2" Std. Port, 2" Full Port Foot EPDM Gasket             | 4   | \$2.88   |
| BF200GFV | 1 1/2" & 2" Std. Port, 2" Full Port Foot FKM (viton type) Gasket | 4   | \$7.21   |
| BF220GE  | 2" Full Port EPDM Gasket                                         | 1   | \$12.98  |
| BF220GV  | 2" Full Port FKM(viton type) Gasket                              | 1   | \$69.15  |
| BF300GE  | 3" Full EPDM Gasket                                              | 1   | \$13.68  |
| BF300GV  | 3" Full FKM(viton type) Gasket                                   | 1   | \$141.19 |
| BF300GFE | 3" Foot EPDM Gasket                                              | 6   | \$5.75   |
| BF300GFV | 3" Foot FKM(viton type) Gasket                                   | 6   | \$11.52  |

# Bulkhead Tank Fittings

## FEATURES

- Double sided female NPT threads.
- Available with EPDM or FKM (viton type) gasket.



## FEATURES

- Double sided female NPT threads.
- Standard with EPDM gasket, FKM (viton type) available.



### POLY BULKHEAD FITTINGS

| PART NO  | DESCRIPTION                                       | HOLE SIZE | QTY | PRICE    |
|----------|---------------------------------------------------|-----------|-----|----------|
| TF050    | 1/2" Poly Bulkhead EPDM Tank Fitting              | 1 5/8"    | 1   | \$10.31  |
| TF050V   | 1/2" Poly Bulkhead FKM(viton type) Tank Fitting   | 1 5/8"    | 1   | \$20.18  |
| TF075    | 3/4" Poly Bulkhead EPDM Tank Fitting              | 1 5/8"    | 1   | \$10.31  |
| TF075V   | 3/4" Poly Bulkhead FKM(viton type) Tank Fitting   | 1 5/8"    | 1   | \$20.18  |
| TF100    | 1" Poly Bulkhead EPDM Tank Fitting                | 2 1/4"    | 1   | \$12.26  |
| TF100V   | 1" Poly Bulkhead FKM(viton type) Tank Fitting     | 2 1/4"    | 1   | \$26.94  |
| TF125    | 1 1/4" Poly Bulkhead EPDM Tank Fitting            | 2 1/4"    | 1   | \$14.28  |
| TF125V   | 1 1/4" Poly Bulkhead FKM(viton type) Tank Fitting | 2 1/4"    | 1   | \$26.94  |
| TF150    | 1 1/2" Poly Bulkhead EPDM Tank Fitting            | 3"        | 1   | \$21.97  |
| TF150V   | 1 1/2" Poly Bulkhead FKM(viton type) Tank Fitting | 3"        | 1   | \$33.14  |
| TF200    | 2" Poly Bulkhead EPDM Tank Fitting                | 3"        | 1   | \$21.97  |
| TF200V   | 2" Poly Bulkhead FKM(viton type) Tank Fitting     | 3"        | 1   | \$37.46  |
| TF200BSP | 2" Poly Bulkhead BSP Tank Fitting                 | 3"        | 1   | \$21.97  |
| TF220    | 2" Poly Bulkhead EPDM Tank Fitting                | 3 1/4"    | 1   | \$28.11  |
| TF220V   | 2" Poly Bulkhead FKM(viton type) Tank Fitting     | 3 1/4"    | 1   | \$67.86  |
| TF300    | 3" Poly Bulkhead EPDM Tank Fitting                | 4 1/2"    | 1   | \$47.10  |
| TF300V   | 3" Poly Bulkhead FKM(viton type) Tank Fitting     | 4 1/2"    | 1   | \$91.12  |
| TF300BSP | 3" Poly Bulkhead BSP Tank Fitting                 | 4 1/2"    | 1   | \$48.10  |
| TF400    | 4" Poly Bulkhead EPDM Tank Fitting                | 5 3/4"    | 1   | \$128.73 |
| TF400V   | 4" Poly Bulkhead FKM(viton type) Tank Fitting     | 5 3/4"    | 1   | \$212.67 |

### 316 SS BULKHEAD FITTINGS

| PART NO | DESCRIPTION                     | HOLE SIZE | QTY | PRICE    |
|---------|---------------------------------|-----------|-----|----------|
| TF038SS | 3/8" SS Bulkhead Tank Fitting   | 1"        | 1   | \$99.42  |
| TF050SS | 1/2" SS Bulkhead Tank Fitting   | 1 3/8"    | 1   | \$131.75 |
| TF075SS | 3/4" SS Bulkhead Tank Fitting   | 1 5/8"    | 1   | \$196.04 |
| TF100SS | 1" SS Bulkhead Tank Fitting     | 2 1/4"    | 1   | \$238.61 |
| TF125SS | 1 1/4" SS Bulkhead Tank Fitting | 2 1/4"    | 1   | \$238.61 |
| TF150SS | 1 1/2" SS Bulkhead Tank Fitting | 3"        | 1   | \$299.75 |
| TF200SS | 2" SS Bulkhead Tank Fitting     | 3"        | 1   | \$299.75 |
| TF220SS | 2" SS Bulkhead Tank Fitting     | 3 1/4"    | 1   | \$316.40 |
| TF300SS | 3" SS Bulkhead Tank Fitting     | 4 3/8"    | 1   | \$484.77 |

### POLY TANK NUTS

| PART NO | DESCRIPTION                | QTY | PRICE   |
|---------|----------------------------|-----|---------|
| TF073   | 1/2" & 3/4" Poly Tank Nuts | 1   | \$6.12  |
| TF103   | 1" & 1 1/4" Poly Tank Nuts | 1   | \$4.69  |
| TF153   | 1 1/2" & 2" Poly Tank Nuts | 1   | \$4.69  |
| TF223   | 2" Poly Tank Nuts          | 1   | \$12.82 |
| TF303   | 3" Poly Tank Nuts          | 1   | \$22.31 |
| TF403   | 4" Poly Tank Nuts          | 1   | \$49.25 |

### BULKHEAD GASKETS

| PART NO | DESCRIPTION                                      | HOLE SIZE | FITS POLY     | FITS SS           | QTY     | PRICE   |
|---------|--------------------------------------------------|-----------|---------------|-------------------|---------|---------|
| 100G    | 3/8" Poly Bulkhead EPDM Gasket                   | 1"        |               | TF038SS           | 100/bag | \$0.94  |
| 100GV   | 3/8" Poly Bulkhead FKM(viton type) Gasket        | 1"        |               | TF038SS           | 100/bag | \$10.63 |
| TF138GV | 1/2" Poly Bulkhead FKM(viton type) Gasket        | 1 3/8"    |               | TF050SS           | 100/bag | \$11.68 |
| 150G    | 1/2" & 3/4" Poly Bulkhead EPDM Gasket            | 1 5/8"    | TF050 & TF075 | TF075SS           | 100/bag | \$1.00  |
| 150GV   | 1/2" & 3/4" Poly Bulkhead FKM(viton type) Gasket | 1 5/8"    | TF050 & TF075 | TF075SS           | 50/bag  | \$11.06 |
| 200G    | 1" & 1 1/4" Poly Bulkhead EPDM Gasket            | 2 1/4"    | TF100 & TF125 | TF100SS & TF125SS | 50/bag  | \$1.06  |
| 200GV   | 1" & 1 1/4" Poly Bulkhead FKM(viton type) Gasket | 2 1/4"    | TF100 & TF125 | TF100SS & TF125SS | 50/bag  | \$18.82 |
| 300G    | 1 1/2" & 2" Poly Bulkhead EPDM Gasket            | 3"        | TF200 & TF150 | TF200SS & TF150SS | 25/bag  | \$1.45  |
| 300GV   | 1 1/2" & 2" Poly Bulkhead FKM(viton type) Gasket | 3"        | TF200 & TF150 | TF200SS & TF150SS | 25/bag  | \$23.53 |
| TF220G  | 2" Poly Bulkhead EPDM Gasket                     | 3 1/4"    | TF220         | TF220SS           | 50/bag  | \$5.41  |
| TF220GV | 2" Poly Bulkhead FKM(viton type) Gasket          | 3 1/4"    | TF220         | TF220SS           | 50/bag  | \$48.09 |
| TF300G  | 3" Poly Bulkhead EPDM Gasket                     | 4 1/2"    | TF300         | TF300SS           | 20/bag  | \$9.36  |
| TF300GV | 3" Poly Bulkhead FKM(viton type) Gasket          | 4 1/2"    | TF300         | TF300SS           | 20/bag  | \$46.10 |
| TF400G  | 4" Poly Bulkhead EPDM Gasket                     | 5 3/4"    | TF400         |                   | 1       | \$17.63 |
| TF400GV | 4" Poly Bulkhead FKM(viton type) Gasket          | 5 3/4"    | TF400         |                   | 1       | \$95.15 |

## Anti Vortex Vent Cap

### FEATURES

- Male NPT.
- Glass reinforced polypropylene.
- 304 stainless steel screen (optional).



| POLY ANTI VORTEX VENT CAPS |                                                 |           |           |           |     |         |
|----------------------------|-------------------------------------------------|-----------|-----------|-----------|-----|---------|
| PART NO                    | DESCRIPTION                                     | BORE SIZE | BORE AREA | VENT AREA | QTY | PRICE   |
| VC200                      | 2" Anti Vortex Vent Cap w/No Screen             | 2"        | 3.1 sq in | 3.9 sq in | 1   | \$17.57 |
| VC230                      | 2" Anti Vortex Vent Cap w/12 Mesh 304 SS Screen | 2"        | 3.1 sq in | 3.9 sq in | 1   | \$20.02 |
| VC300                      | 3" Anti Vortex Vent Cap w/No Screen             | 3"        | 7 sq in   | 9 sq in   | 1   | \$27.73 |
| VC330                      | 3" Anti Vortex Vent Cap w/10 Mesh 304 SS Screen | 3"        | 7 sq in   | 9 sq in   | 1   | \$33.86 |



Tank flange sold separately on page 97.

## Anti Vortex Tank Flange

### FEATURES

- Standard w/FKM (viton type).
- Prevents swirl in bottom of tank.



| ANTI VORTEX TANK FLANGES |                                 |           |     |         |
|--------------------------|---------------------------------|-----------|-----|---------|
| PART NO                  | DESCRIPTION                     | HOLE SIZE | QTY | PRICE   |
| TF100AV                  | 1" Anti Vortex Tank Flanges     | 2 1/4"    | 1   | \$24.47 |
| TF125AV                  | 1 1/4" Anti Vortex Tank Flanges | 2 1/4"    | 1   | \$24.47 |
| TF150AV                  | 1 1/2" Anti Vortex Tank Flanges | 3"        | 1   | \$30.61 |
| TF200AV                  | 2" Anti Vortex Tank Flanges     | 3"        | 1   | \$30.61 |

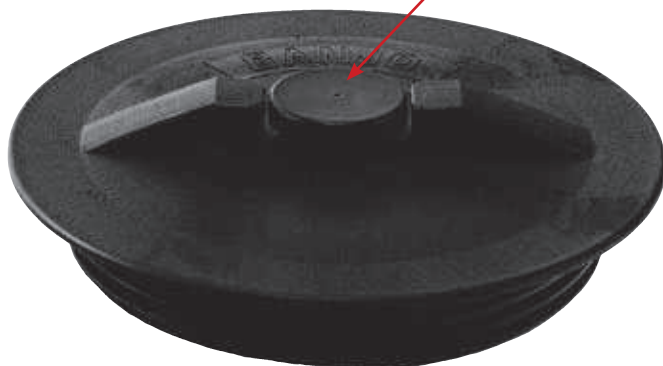


# Poly Tank Lids

## FEATURES

- Maximum air flow through vent channels.
- Airflow equivalent to a 3" hole.
- No secondary venting needed.
- Baffled vents.

**Vent Cover**



**Center Vent**

Goes in underside of lid.



IBC/TANK ACC.

| 10" VENTED TANK LIDS |                                                 |     |         |
|----------------------|-------------------------------------------------|-----|---------|
| PART NO              | DESCRIPTION                                     | QTY | PRICE   |
| TLVA10               | 10" Vented Tank Lid & Ring Assembly (new style) | 1   | \$40.90 |
| TLA10                | 10" Vented Tank Lid & Ring Assembly (old style) | 1   | \$43.38 |
| TLV10R               | 10" Vented Tank Lid Assembly w/o Ring           | 1   | \$24.40 |
| TLV1                 | Vent Cover                                      | 1   | \$2.47  |
| TLV2                 | Center Vent                                     | 1   | \$2.61  |
| TR10R1               | 10" Tank Ring Only                              | 1   | \$16.48 |

| 10" NON-VENTED TANK LIDS |                               |     |         |
|--------------------------|-------------------------------|-----|---------|
| PART NO                  | DESCRIPTION                   | QTY | PRICE   |
| TL101                    | 10" Non-Vented Tank Lid Only  | 1   | \$22.39 |
| TR10                     | 10" Non-Vented Tank Ring Only | 1   | \$16.78 |

# Poly Siphon Tubes

## FEATURES

- Full flow size.
- Long length.
- Male NPT threads.

| POLY SIPHON TUBES |                     |     |         |
|-------------------|---------------------|-----|---------|
| PART NO           | DESCRIPTION         | QTY | PRICE   |
| ST200             | 2" Poly Siphon Tube | 1   | \$22.31 |
| ST300             | 3" Poly Siphon Tube | 1   | \$33.00 |





# Polypropylene Class 150 ANSI Flanges

## FEATURES

- 150 P.S.I. maximum.
- Glass reinforced polypropylene.
- Heavy duty.



| 150# THREADED ANSI FLANGES |                               |     |          |
|----------------------------|-------------------------------|-----|----------|
| PART NO                    | DESCRIPTION                   | QTY | PRICE    |
| AF100                      | 1" Female Thread ANSI Flange  | 1   | \$13.25  |
| AF150                      | 1½" Female Thread ANSI Flange | 1   | \$25.42  |
| AF200                      | 2" Female Thread ANSI Flange  | 1   | \$29.66  |
| AF300                      | 3" Female Thread ANSI Flange  | 1   | \$47.40  |
| AF400                      | 4" Female Thread ANSI Flange  | 1   | \$100.19 |

| 150# BLIND ANSI FLANGES |                       |     |          |
|-------------------------|-----------------------|-----|----------|
| PART NO                 | DESCRIPTION           | QTY | PRICE    |
| AFB100                  | 1" Blind ANSI Flange  | 1   | \$18.75  |
| AFB150                  | 1½" Blind ANSI Flange | 1   | \$28.69  |
| AFB200                  | 2" Blind ANSI Flange  | 1   | \$35.65  |
| AFB300                  | 3" Blind ANSI Flange  | 1   | \$62.69  |
| AFB400                  | 4" Blind ANSI Flange  | 1   | \$109.50 |

| ANSI FLANGE GASKETS |                                         |     |          |
|---------------------|-----------------------------------------|-----|----------|
| PART NO             | DESCRIPTION                             | QTY | PRICE    |
| AF100G              | 1" ANSI Flange EPDM Gasket              | 1   | \$5.04   |
| AF100GV             | 1" ANSI Flange FKM (viton type) Gasket  | 1   | \$48.28  |
| AF150G              | 1½" ANSI Flange EPDM Gasket             | 1   | \$8.50   |
| AF150GV             | 1½" ANSI Flange FKM (viton type) Gasket | 1   | \$61.23  |
| AF200G              | 2" ANSI Flange EPDM Gasket              | 1   | \$9.22   |
| AF200GV             | 2" ANSI Flange FKM (viton type) Gasket  | 1   | \$90.04  |
| AF300G              | 3" ANSI Flange EPDM Gasket              | 1   | \$10.31  |
| AF300GV             | 3" ANSI Flange FKM (viton type) Gasket  | 1   | \$118.87 |
| AF400G              | 4" ANSI Flange EPDM Gasket              | 1   | \$12.76  |
| AF400GV             | 4" ANSI Flange FKM (viton type) Gasket  | 1   | \$173.63 |



ANSI Flange Gasket

# 316 Stainless Steel Cam Lever Couplings



## FEATURES

- Tough 316 stainless steel to insure durability.
- Chemical resistant to protect against corrosion.
- Precision-made, investment casting high quality process to assure uniformity & proper fit.
- 150 P.S.I. maximum operating pressure.
- Versatile to interchange with all types of cam lever couplings.
- Smooth operation makes connections quick & easy.
- Standard with Buna "N" gaskets. FKM (viton type) & EPDM available. PTFE Available upon request.



**WARNING: Couplings should not be disconnected under pressure or with liquid in the line.**

## 316 STAINLESS STEEL CAM LEVER COUPLINGS

| ITEM | DESCRIPTION                  | ¾"        | 1"        | 1½"       | 2"        | 3"        | 4"        |
|------|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| A    | Male Adapter-Female Thread   | 075ASS    | 100ASS    | 150ASS    | 200ASS    | 300ASS    | 400ASS    |
| B    | Female Coupler- Male Thread  | 075BSS    | 100BSS    | 150BSS    | 200BSS    | 300BSS    | 400BSS    |
| C    | Female Coupler-Hose Shank    | 075CSS    | 100CSS    | 150CSS    | 200CSS    | 300CSS    | 400CSS    |
| D    | Female Coupler-Female Thread | 075DSS    | 100DSS    | 150DSS    | 200DSS    | 300DSS    | 400DSS    |
| E    | Male Adapter-Hose Shank      | 075ESS    | 100ESS    | 150ESS    | 200ESS    | 300ESS    | 400ESS    |
| F    | Male Adapter-Male Thread     | 075FSS    | 100FSS    | 150FSS    | 200FSS    | 300FSS    | 400FSS    |
| PL   | Plug for Female Coupler      | 075PL/SS  | 100PL/SS  | 150PL/SS  | 200PL/SS  | 300PL/SS  | 400PL/SS  |
| CAP  | Cap for Male Adapter         | 075CAP/SS | 100CAP/SS | 150CAP/SS | 200CAP/SS | 300CAP/SS | 400CAP/SS |

## ¾" SERIES SS CAM LEVER COUPLINGS

| PART NO   | DESCRIPTION                        | MAX PSI | GASKET | QTY | PRICE   |
|-----------|------------------------------------|---------|--------|-----|---------|
| 075ASS    | ¾" Male Adapter-¾" Female Thread   | 150     | N/A    | 1   | \$64.32 |
| 075BSS    | ¾" Female Coupler-¾" Male Thread   | 150     | Buna   | 1   | \$97.73 |
| 075CSS    | ¾" Female Coupler-¾" Hose Shank    | 150     | Buna   | 1   | \$94.74 |
| 075DSS    | ¾" Female Coupler-¾" Female Thread | 150     | Buna   | 1   | \$98.68 |
| 075ESS    | ¾" Male Adapter-¾" Hose Shank      | 150     | N/A    | 1   | \$67.06 |
| 075FSS    | ¾" Male Adapter-¾" Male Thread     | 150     | N/A    | 1   | \$71.95 |
| 075CAP/SS | ¾" Cap-Male Adapter                | 150     | Buna   | 1   | \$97.73 |
| 075PL/SS  | ¾" Plug-Female Coupler             | 150     | N/A    | 1   | \$65.70 |

## 1" SERIES SS CAM LEVER COUPLINGS

| PART NO   | DESCRIPTION                        | MAX PSI | GASKET | QTY | PRICE    |
|-----------|------------------------------------|---------|--------|-----|----------|
| 100ASS    | 1" Male Adapter-1" Female Thread   | 150     | N/A    | 1   | \$64.97  |
| 100BSS    | 1" Female Coupler-1" Male Thread   | 150     | Buna   | 1   | \$111.32 |
| 100CSS    | 1" Female Coupler-1" Hose Shank    | 150     | Buna   | 1   | \$97.64  |
| 100DSS    | 1" Female Coupler-1" Female Thread | 150     | Buna   | 1   | \$106.37 |
| 100ESS    | 1" Male Adapter-1" Hose Shank      | 150     | N/A    | 1   | \$65.70  |
| 100FSS    | 1" Male Adapter-1" Male Thread     | 150     | N/A    | 1   | \$80.92  |
| 100CAP/SS | 1" Cap-Male Adapter                | 150     | Buna   | 1   | \$111.24 |
| 100PL/SS  | 1" Plug-Female Coupler             | 150     | N/A    | 1   | \$70.34  |

**1½" SERIES SS CAM LEVER COUPLINGS**

| PART NO   | DESCRIPTION                          | MAX PSI | GASKET | QTY | PRICE    |
|-----------|--------------------------------------|---------|--------|-----|----------|
| 150ASS    | 1½" Male Adapter-1½" Female Thread   | 150     | N/A    | 1   | \$66.42  |
| 150BSS    | 1½" Female Coupler-1½" Male Thread   | 150     | Buna   | 1   | \$135.26 |
| 150CSS    | 1½" Female Coupler-1½" Hose Shank    | 150     | Buna   | 1   | \$117.49 |
| 150DSS    | 1½" Female Coupler-1½" Female Thread | 150     | Buna   | 1   | \$135.26 |
| 150ESS    | 1½" Male Adapter-1½" Hose Shank      | 150     | N/A    | 1   | \$83.86  |
| 150FSS    | 1½" Male Adapter-1½" Male Thread     | 150     | N/A    | 1   | \$102.86 |
| 150CAP/SS | 1½" Cap-Male Adapter                 | 150     | Buna   | 1   | \$126.45 |
| 150PL/SS  | 1½" Plug-Female Coupler              | 150     | N/A    | 1   | \$69.78  |

**2" SERIES SS CAM LEVER COUPLINGS**

| PART NO   | DESCRIPTION                        | MAX PSI | GASKET | QTY | PRICE    |
|-----------|------------------------------------|---------|--------|-----|----------|
| 200ASS    | 2" Male Adapter-2" Female Thread   | 150     | N/A    | 1   | \$77.79  |
| 200BSS    | 2" Female Coupler-2" Male Thread   | 150     | Buna   | 1   | \$159.74 |
| 200CSS    | 2" Female Coupler-2" Hose Shank    | 150     | Buna   | 1   | \$143.89 |
| 200DSS    | 2" Female Coupler-2" Female Thread | 150     | Buna   | 1   | \$148.54 |
| 200ESS    | 2" Male Adapter-2" Hose Shank      | 150     | N/A    | 1   | \$89.62  |
| 200FSS    | 2" Male Adapter-2" Male Thread     | 150     | N/A    | 1   | \$112.21 |
| 200CAP/SS | 2" Cap-Male Adapter                | 150     | Buna   | 1   | \$123.55 |
| 200PL/SS  | 2" Plug-Female Coupler             | 150     | N/A    | 1   | \$81.62  |

**3" SERIES SS CAM LEVER COUPLINGS**

| PART NO   | DESCRIPTION                        | MAX PSI | GASKET | QTY | PRICE    |
|-----------|------------------------------------|---------|--------|-----|----------|
| 300ASS    | 3" Male Adapter-3" Female Thread   | 150     | N/A    | 1   | \$159.25 |
| 300BSS    | 3" Female Coupler-3" Male Thread   | 150     | Buna   | 1   | \$301.70 |
| 300CSS    | 3" Female Coupler-3" Hose Shank    | 150     | Buna   | 1   | \$232.24 |
| 300DSS    | 3" Female Coupler-3" Female Thread | 150     | Buna   | 1   | \$304.11 |
| 300ESS    | 3" Male Adapter-3" Hose Shank      | 150     | N/A    | 1   | \$178.46 |
| 300FSS    | 3" Male Adapter-3" Male Thread     | 150     | N/A    | 1   | \$221.53 |
| 300CAP/SS | 3" Cap-Male Adapter                | 150     | Buna   | 1   | \$180.87 |
| 300PL/SS  | 3" Plug-Female Coupler             | 150     | N/A    | 1   | \$151.26 |

**4" SERIES SS CAM LEVER COUPLINGS**

| PART NO   | DESCRIPTION                        | MAX PSI | GASKET | QTY | PRICE    |
|-----------|------------------------------------|---------|--------|-----|----------|
| 400ASS    | 4" Male Adapter-4" Female Thread   | 150     | N/A    | 1   | \$273.70 |
| 400BSS    | 4" Female Coupler-4" Male Thread   | 150     | Buna   | 1   | \$409.74 |
| 400CSS    | 4" Female Coupler-4" Hose Shank    | 150     | Buna   | 1   | \$379.34 |
| 400DSS    | 4" Female Coupler-4" Female Thread | 150     | Buna   | 1   | \$410.97 |
| 400ESS    | 4" Male Adapter-4" Hose Shank      | 150     | N/A    | 1   | \$353.71 |
| 400FSS    | 4" Male Adapter-4" Male Thread     | 150     | N/A    | 1   | \$353.71 |
| 400CAP/SS | 4" Cap-Male Adapter                | 150     | Buna   | 1   | \$288.11 |
| 400PL/SS  | 4" Plug-Female Coupler             | 150     | N/A    | 1   | \$228.89 |

**REPLACEMENT PARTS SS CAM ARM W/RING**

| PART NO    | DESCRIPTION             | QTY | PRICE  |
|------------|-------------------------|-----|--------|
| 75K        | ¾" Cam Arm w/Ring       | 1   | \$3.61 |
| 100K       | 1" Cam Arm w/Ring       | 1   | \$3.40 |
| 150(200)K6 | 1½" & 2" Cam Arm w/Ring | 1   | \$6.37 |
| 300K6      | 3" & 4" Cam Arm w/Ring  | 1   | \$8.56 |

**REPLACEMENT PARTS SS COUPLING PINS & RINGS**

| PART NO | DESCRIPTION           | QTY | PRICE  |
|---------|-----------------------|-----|--------|
| 75P     | ¾" Pin                | 1   | \$0.81 |
| 100P    | 1" Pin                | 1   | \$0.81 |
| 200P    | 1½" & 2" Pin          | 1   | \$1.00 |
| 300MP   | 3" & 4" Pin           | 1   | \$2.33 |
| 100RING | ¾" & 1" Ring          | 1   | \$0.68 |
| 150RING | 1½", 2", 3" & 4" Ring | 1   | \$0.78 |

**REPLACEMENT PARTS SS COUPLING GASKETS**

| PART NO | DESCRIPTION                 | QTY | PRICE   |
|---------|-----------------------------|-----|---------|
| 75GV    | ¾" FKM (viton type) Gasket  | 100 | \$10.83 |
| 100GV   | 1" FKM (viton type) Gasket  | 100 | \$10.63 |
| 150GV   | 1½" FKM (viton type) Gasket | 100 | \$11.06 |
| 200GV   | 2" FKM (viton type) Gasket  | 50  | \$18.82 |
| 300GV   | 3" FKM (viton type) Gasket  | 25  | \$23.53 |
| 400GV   | 4" FKM (viton type) Gasket  | 25  | \$30.81 |

**REPLACEMENT PARTS SS COUPLING GASKETS**

| PART NO | DESCRIPTION     | QTY | PRICE  |
|---------|-----------------|-----|--------|
| 75GB    | ¾" Buna Gasket  | 100 | \$1.09 |
| 100GB   | 1" Buna Gasket  | 100 | \$1.09 |
| 150GB   | 1½" Buna Gasket | 100 | \$1.22 |
| 200GB   | 2" Buna Gasket  | 50  | \$1.28 |
| 300GB   | 3" Buna Gasket  | 25  | \$1.74 |
| 400GB   | 4" Buna Gasket  | 25  | \$4.02 |

# FDA Cam Lever Couplings



**WARNING: Couplings should not be disconnected under pressure or with liquid in the line.**



## FEATURES

- Stainless steel rings, arms & pins.
- Most complete line of polypropylene FDA couplings available.
- Versatile — interchangeable with all types of cam lever couplers.
- Precision molded — insures a uniform and accurate fit.
- Smooth operating — finger rings are designed for easy opening of cam levers.
- Complete series of  $\frac{3}{4}$ ", 1",  $1\frac{1}{4}$ ",  $1\frac{1}{2}$ ", 2", 3" NPT thread.
- Operating conditions:
  - $\frac{3}{8}$ " thru 2" — 100 P.S.I. at 0°F; 125 P.S.I. at 70°F; 70 P.S.I. at 150°F.
  - 3" Cap-50 P.S.I. Couplings-75 P.S.I. max.
- Economical and superior in performance.
- Standard with FDA EPDM gaskets.

**DURABLE FDA  
POLYPROPYLENE  
IS GLASS FILLED  
FOR RUGGED  
STRENGTH AND  
DURABILITY.**



| FDA CAM LEVER COUPLINGS |                                    |                 |             |                  |          |          |
|-------------------------|------------------------------------|-----------------|-------------|------------------|----------|----------|
| ITEM                    | DESCRIPTION                        | $\frac{3}{4}$ " | 1"          | $1\frac{1}{2}$ " | 2"       | 3"       |
| A                       | Male Adapter-Female Thread (FDA)   | 75A3/4FD        | 100AFD      | 150AFD           | 200AFD   | 300AFD   |
| B                       | Female Coupler- Male Thread (FDA)  | 75BFD           | 100BFD      | 150BFD           | 200BFD   | 300BFD   |
| C                       | Female Coupler-Hose Shank (FDA)    | 075CFD          | 100CFD      | 150CFD           | 200CFD   | 300CFD   |
| D                       | Female Coupler-Female Thread (FDA) | 075DFD          | 100DFD      | 150DFD           | 200DFD   | 300DFD   |
| E                       | Male Adapter-Hose Shank (FDA)      | 075EFD          | 100EFD      | 150EFD           | 200EFD   | 300EFD   |
| F                       | Male Adapter-Male Thread (FDA)     | 075FFD          | 100FFD      | 150FFD           | 200FFD   | 300FFD   |
| PL                      | Plug for Female Coupler (FDA)      | 75PLFD          | 100125PLFD  | 150PLFD          | 200PLFD  | 300PLFD  |
| CAP                     | Cap for Male Adapter (FDA)         | 075CAPFD        | 100125CAPFD | 150CAPFD         | 200CAPFD | 300CAPFD |

**3/4" FDA CAM LEVER COUPLINGS**

| PART NO  | DESCRIPTION                            | MAX PSI | GASKET   | QTY    | PRICE   |
|----------|----------------------------------------|---------|----------|--------|---------|
| 75A3/4FD | 3/4" Male Adapter-3/4" Female Thread   | 125     | N/A      | 10/bag | \$6.41  |
| 75BFD    | 3/4" Female Coupler-3/4" Male Thread   | 125     | FDA EPDM | 10/bag | \$14.62 |
| 075CFD   | 3/4" Female Coupler-3/4" Hose Shank    | 125     | FDA EPDM | 10/bag | \$14.62 |
| 075DFD   | 3/4" Female Coupler-3/4" Female Thread | 125     | FDA EPDM | 10/bag | \$14.62 |
| 075EFD   | 3/4" Male Adapter-3/4" Hose Shank      | 125     | N/A      | 10/bag | \$6.80  |
| 075FFD   | 3/4" Male Adapter-3/4" Male Thread     | 125     | N/A      | 10/bag | \$6.80  |
| 075CAPFD | 3/4" Cap-Male Adapter                  | 125     | FDA EPDM | 10/bag | \$14.62 |
| 75PLFD   | 3/4" Plug-Female Coupler               | 125     | N/A      | 10/bag | \$6.41  |

**1" FDA CAM LEVER COUPLINGS**

| PART NO     | DESCRIPTION                        | MAX PSI | GASKET   | QTY    | PRICE   |
|-------------|------------------------------------|---------|----------|--------|---------|
| 100AFD      | 1" Male Adapter-1" Female Thread   | 125     | N/A      | 10/bag | \$7.66  |
| 100BFD      | 1" Female Coupler-1" Male Thread   | 125     | FDA EPDM | 10/bag | \$16.46 |
| 100CFD      | 1" Female Coupler-1" Hose Shank    | 125     | FDA EPDM | 10/bag | \$16.46 |
| 100DFD      | 1" Female Coupler-1" Female Thread | 125     | FDA EPDM | 10/bag | \$16.46 |
| 100EFD      | 1" Male Adapter-1" Hose Shank      | 125     | N/A      | 10/bag | \$7.66  |
| 100FFD      | 1" Male Adapter-1" Male Thread     | 125     | N/A      | 10/bag | \$7.66  |
| 100125CAPFD | 1" Cap-Male Adapter                | 125     | FDA EPDM | 10/bag | \$16.46 |
| 100125PLFD  | 1" Plug-Female Coupler             | 125     | N/A      | 10/bag | \$7.66  |

**1 1/4" FDA CAM LEVER COUPLINGS**

| PART NO     | DESCRIPTION                            | MAX PSI | GASKET   | QTY    | PRICE   |
|-------------|----------------------------------------|---------|----------|--------|---------|
| 125CFD      | 1" Female Coupler-1 1/4" Hose Shank    | 125     | FDA EPDM | 1      | \$17.32 |
| 125DFD      | 1" Female Coupler-1 1/4" Female Thread | 125     | FDA EPDM | 1      | \$27.45 |
| 100125CAPFD | 1" Cap-Male Adapter                    | 125     | FDA EPDM | 10/bag | \$16.46 |
| 100125PLFD  | 1" Plug-Female Coupler                 | 125     | N/A      | 10/bag | \$7.66  |

**1 1/2" FDA CAM LEVER COUPLINGS**

| PART NO  | DESCRIPTION                                | MAX PSI | GASKET   | QTY    | PRICE   |
|----------|--------------------------------------------|---------|----------|--------|---------|
| 150AFD   | 1 1/2" Male Adapter-1 1/2" Female Thread   | 125     | N/A      | 10/bag | \$8.98  |
| 150BFD   | 1 1/2" Female Coupler-1 1/2" Male Thread   | 125     | FDA EPDM | 1      | \$19.97 |
| 150CFD   | 1 1/2" Female Coupler-1 1/2" Hose Shank    | 125     | FDA EPDM | 1      | \$19.97 |
| 150DFD   | 1 1/2" Female Coupler-1 1/2" Female Thread | 125     | FDA EPDM | 1      | \$19.97 |
| 150EFD   | 1 1/2" Male Adapter-1 1/2" Hose Shank      | 125     | N/A      | 10/bag | \$9.18  |
| 150FFD   | 1 1/2" Male Adapter-1 1/2" Male Thread     | 125     | N/A      | 10/bag | \$9.18  |
| 150CAPFD | 1 1/2" Cap-Male Adapter                    | 125     | FDA EPDM | 1      | \$19.97 |
| 150PLFD  | 1 1/2" Plug-Female Coupler                 | 125     | N/A      | 10/bag | \$9.18  |

**2" FDA CAM LEVER COUPLINGS**

| PART NO    | DESCRIPTION                        | MAX PSI | GASKET   | QTY    | PRICE   |
|------------|------------------------------------|---------|----------|--------|---------|
| 200AFD     | 2" Male Adapter-2" Female Thread   | 125     | N/A      | 10/bag | \$10.79 |
| 200BFD     | 2" Female Coupler-2" Male Thread   | 125     | FDA EPDM | 1      | \$23.54 |
| 200CFD     | 2" Female Coupler-2" Hose Shank    | 125     | FDA EPDM | 1      | \$23.54 |
| 200DFD     | 2" Female Coupler-2" Female Thread | 125     | FDA EPDM | 1      | \$23.54 |
| 200EFD     | 2" Male Adapter-2" Hose Shank      | 125     | N/A      | 10/bag | \$11.77 |
| 200FFD     | 2" Male Adapter-2" Male Thread     | 125     | N/A      | 10/bag | \$11.77 |
| 200CAPFD   | 2" Cap-Male Adapter                | 125     | FDA EPDM | 1      | \$23.54 |
| 200CAPSHFD | 2" Cap-Male Adapter w/Short Arms   | 125     | FDA EPDM | 1      | \$26.25 |
| 200PLFD    | 2" Plug-Female Coupler             | 125     | N/A      | 10/bag | \$10.79 |

**3" FDA CAM LEVER COUPLINGS**

| PART NO  | DESCRIPTION                        | MAX PSI | GASKET   | QTY | PRICE   |
|----------|------------------------------------|---------|----------|-----|---------|
| 300AFD   | 3" Male Adapter-3" Female Thread   | 75      | N/A      | 1   | \$20.26 |
| 300BFD   | 3" Female Coupler-3" Male Thread   | 75      | FDA EPDM | 1   | \$39.51 |
| 300CFD   | 3" Female Coupler-3" Hose Shank    | 75      | FDA EPDM | 1   | \$39.51 |
| 300DFD   | 3" Female Coupler-3" Female Thread | 75      | FDA EPDM | 1   | \$39.51 |
| 300EFD   | 3" Male Adapter-3" Hose Shank      | 75      | N/A      | 1   | \$25.07 |
| 300FFD   | 3" Male Adapter-3" Male Thread     | 75      | N/A      | 1   | \$25.07 |
| 300CAPFD | 3" Cap-Male Adapter                | 75      | FDA EPDM | 1   | \$39.51 |
| 300PLFD  | 3" Plug-Female Coupler             | 75      | N/A      | 1   | \$20.26 |

**REPLACEMENT PARTS FDA CAM ARM W/RING**

| PART NO   | DESCRIPTION                   | QTY | PRICE  |
|-----------|-------------------------------|-----|--------|
| 75K       | 1/2" & 3/4" SS Cam Arm w/Ring | 1   | \$3.61 |
| 100K      | 1" & 1 1/4" SS Cam Arm w/Ring | 1   | \$3.40 |
| 150(200)K | 1 1/2" & 2" SS Cam Arm w/Ring | 1   | \$4.44 |
| 300K      | 3" SS Cam Arm w/Ring          | 1   | \$6.28 |

**REPLACEMENT PARTS SS COUPLING PINS & RINGS**

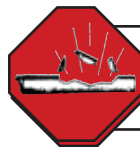
| PART NO | DESCRIPTION          | QTY | PRICE  |
|---------|----------------------|-----|--------|
| 75P     | 1/2" & 3/4" Pin      | 1   | \$0.81 |
| 100P    | 1" & 1 1/4" Pin      | 1   | \$0.81 |
| 200P    | 1 1/2" & 2" Pin      | 1   | \$1.00 |
| 300P    | 3" & 4" Pin          | 1   | \$1.97 |
| 100RING | 3/4" & 1" Ring       | 1   | \$0.68 |
| 150RING | 1 1/2", 2" & 3" Ring | 1   | \$0.78 |

**REPLACEMENT PARTS FDA COUPLING GASKETS**

| PART NO | DESCRIPTION            | QTY | PRICE   |
|---------|------------------------|-----|---------|
| 75GFD   | 3/4" FDA EPDM Gasket   | 100 | \$1.36  |
| 100GW   | 1" FDA EPDM Gasket     | 100 | \$1.71  |
| 150GFD  | 1 1/2" FDA EPDM Gasket | 100 | \$2.12  |
| 200GFD  | 2" FDA EPDM Gasket     | 50  | \$2.12  |
| 300GFD  | 3" FDA EPDM Gasket     | 25  | \$30.93 |

**REPLACEMENT PARTS FDA COUPLING**

| PART NO | DESCRIPTION | QTY | PRICE  |
|---------|-------------|-----|--------|
| V20207  | 11" Lanyard | 1   | \$2.11 |



**WARNING: Couplings should not be disconnected under pressure or with liquid in the line.**



# Polypropylene Cam Lever Couplings

## FEATURES

- Stainless steel rings, arms & pins.
- Most complete line of polypropylene couplings available.
- Versatile — interchangeable with all types of cam lever couplers.
- Precision molded — insures a uniform and accurate fit.
- Durable — Polypropylene is glass filled for rugged strength and durability.
- Smooth operating — finger rings are designed for easy opening of cam levers.
- Complete series of 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 3" and 4" NPT thread.
- BSP threads available 1"- 3" sizes (excluding 1 1/4").
- Operating conditions:  
 - 3/8" thru 2" — 100 P.S.I. at 0°F; 125 P.S.I. at 70°F; 70 P.S.I. at 150°F.  
 - 2 1/2", 3" & 4" Cap-50 P.S.I.; Couplings 75 P.S.I. max.
- Economical and superior in performance.
- Standard with EPDM gaskets. Buna "N", and FKM (viton type) also available.



**WARNING: Couplings should not be disconnected under pressure or with liquid in the line.**



CAM LEVER COUPLINGS

| CAM LEVER COUPLINGS |                              |        |         |        |        |           |           |                     |        |        |        |        |           |                    |
|---------------------|------------------------------|--------|---------|--------|--------|-----------|-----------|---------------------|--------|--------|--------|--------|-----------|--------------------|
| ITEM                | DESCRIPTION                  | 1/4" * | 3/8" *  | 1/2" * | 3/4"   | 1"        | 1 1/4" ** | 1 1/2" x 1 1/4" *** | 1 1/2" | 2"     | 2 1/2" | 3"     | 3" 3 ARMS | 4" 3 ARMS          |
| A                   | Male Adapter-Female Thread   | 75A1/4 | 75A3/8  | 75A1/2 | 75A3/4 | 100A      | 125A      | 150125A             | 150A   | 200A   |        | 300A   |           | 400A               |
| B                   | Female Coupler- Male Thread  |        |         | 75B1/2 | 75B3/4 | 100B      | 125B      | 150125B             | 150B   | 200B   |        | 300B   | 303B      | 400B               |
| C                   | Female Coupler-Hose Shank    |        |         | 050C   | 075C   | 100C      | 125C      | 150125C             | 150C   | 200C   |        | 300C   | 303C      | 400C               |
| D                   | Female Coupler-Female Thread |        | 075D3/8 | 050D   | 075D   | 100D      | 125D      | 150125D             | 150D   | 200D   |        | 300D   |           | 400D               |
| E                   | Male Adapter-Hose Shank      |        |         | 050E   | 075E   | 100E      | 125E      | 150125E             | 150E   | 200E   |        | 300E   |           | 400E               |
| F                   | Male Adapter-Male Thread     |        |         | 050F   | 075F   | 100F      | 125F      | 150125F             | 150F   | 200F   |        | 300F   |           | 400F               |
| PL                  | Plug for Female Coupler      |        |         | 75PL   | 75PL   | 100125PL  | 100125PL  | 150PL               | 150PL  | 200PL  | 250PL  | 300PL  |           | 400PL              |
| CAP                 | Cap for Male Adapter         |        |         | 075CAP | 075CAP | 100125CAP | 100125CAP | 150CAP              | 150CAP | 200CAP | 250CAP | 300CAP |           | 400CAP<br>(2 arms) |
| CAPSH               | Cap w/Short Arms             |        |         |        |        |           |           | 200CAPSH            |        |        |        |        |           |                    |

NOTE: \*1/4", 3/8" and 1/2" series couplings interchange with 3/4" size couplings. Coupling ends are 3/4" size.  
 \*\*1 1/4" series couplings interchange with 1" size couplings. Coupling ends are 1" size.  
 \*\*\*1 1/2" x 1 1/4" couplings interchange with 1 1/2" size couplings. Coupling ends are 1 1/2" size.



**½" POLY CAM LEVER COUPLINGS**

| PART NO | DESCRIPTION                        | MAX PSI | GASKET | QTY    | PRICE   |
|---------|------------------------------------|---------|--------|--------|---------|
| 75A1/2  | ¾" Male Adapter-½" Female Thread   | 125     | N/A    | 10/bag | \$5.22  |
| 75B1/2  | ¾" Female Coupler-½" Male Thread   | 125     | EPDM   | 10/bag | \$11.94 |
| 050C    | ¾" Female Coupler-½" Hose Shank    | 125     | EPDM   | 10/bag | \$11.94 |
| 050D    | ¾" Female Coupler-½" Female Thread | 125     | EPDM   | 10/bag | \$11.94 |
| 050E    | ¾" Male Adapter-½" Hose Shank      | 125     | N/A    | 10/bag | \$5.64  |
| 050F    | ¾" Male Adapter-½" Male Thread     | 125     | N/A    | 10/bag | \$5.64  |
| 075CAP  | ¾" Cap-Male Adapter                | 125     | EPDM   | 10/bag | \$11.94 |
| 75PL    | ¾" Plug-Female Coupler             | 125     | N/A    | 10/bag | \$5.64  |

**¾" POLY CAM LEVER COUPLINGS**

| PART NO | DESCRIPTION                        | MAX PSI | GASKET | QTY    | PRICE   |
|---------|------------------------------------|---------|--------|--------|---------|
| 75A3/4  | ¾" Male Adapter-¾" Female Thread   | 125     | N/A    | 10/bag | \$5.22  |
| 75B3/4  | ¾" Female Coupler-¾" Male Thread   | 125     | EPDM   | 10/bag | \$11.94 |
| 075C    | ¾" Female Coupler-¾" Hose Shank    | 125     | EPDM   | 10/bag | \$11.94 |
| 075D    | ¾" Female Coupler-¾" Female Thread | 125     | EPDM   | 10/bag | \$11.94 |
| 075E    | ¾" Male Adapter-¾" Hose Shank      | 125     | N/A    | 10/bag | \$5.64  |
| 075F    | ¾" Male Adapter-¾" Male Thread     | 125     | N/A    | 10/bag | \$5.64  |
| 075CAP  | ¾" Cap-Male Adapter                | 125     | EPDM   | 10/bag | \$11.94 |
| 75PL    | ¾" Plug-Female Coupler             | 125     | N/A    | 10/bag | \$5.64  |

**¾" x ¼" POLY CAM LEVER COUPLINGS**

| PART NO | DESCRIPTION                      | MAX PSI | GASKET | QTY    | PRICE  |
|---------|----------------------------------|---------|--------|--------|--------|
| 75A1/4  | ¾" Male Adapter-¼" Female Thread | 125     | N/A    | 10/bag | \$5.22 |

**¾" x ⅜" POLY CAM LEVER COUPLINGS**

| PART NO | DESCRIPTION                        | MAX PSI | GASKET | QTY    | PRICE   |
|---------|------------------------------------|---------|--------|--------|---------|
| 75A3/8  | ¾" Male Adapter-⅜" Female Thread   | 125     | N/A    | 10/bag | \$5.22  |
| 075D3/8 | ¾" Female Coupler-⅜" Female Thread | 125     | N/A    | 10/bag | \$11.94 |

**NOTE: ½" couplings interchange with ¾" couplings.  
Banjo 1¼" Couplers & Adapters will interchange with 1" Couplings.  
Only the Threads and Barbs are 1¼".**

**1" POLY CAM LEVER COUPLINGS**

| PART NO   | DESCRIPTION                        | MAX PSI | GASKET | QTY    | PRICE   |
|-----------|------------------------------------|---------|--------|--------|---------|
| 100A      | 1" Male Adapter-1" Female Thread   | 125     | N/A    | 10/bag | \$5.22  |
| 100B      | 1" Female Coupler-1" Male Thread   | 125     | EPDM   | 10/bag | \$13.72 |
| 100C      | 1" Female Coupler-1" Hose Shank    | 125     | EPDM   | 10/bag | \$13.72 |
| 100D      | 1" Female Coupler-1" Female Thread | 125     | EPDM   | 10/bag | \$13.72 |
| 100E      | 1" Male Adapter-1" Hose Shank      | 125     | N/A    | 10/bag | \$6.26  |
| 100F      | 1" Male Adapter-1" Male Thread     | 125     | N/A    | 10/bag | \$6.26  |
| 100125CAP | 1" Cap-Male Adapter                | 125     | EPDM   | 10/bag | \$13.17 |
| 100125PL  | 1" Plug-Female Coupler             | 125     | N/A    | 10/bag | \$5.43  |

**1" x 1¼" POLY CAM LEVER COUPLINGS**

| PART NO   | DESCRIPTION                         | MAX PSI | GASKET | QTY    | PRICE   |
|-----------|-------------------------------------|---------|--------|--------|---------|
| 125A      | 1" Male Adapter-1¼" Female Thread   | 125     | N/A    | 10/bag | \$5.22  |
| 125B      | 1" Female Coupler-1¼" Male Thread   | 125     | EPDM   | 10/bag | \$13.72 |
| 125C      | 1" Female Coupler-1¼" Hose Shank    | 125     | EPDM   | 10/bag | \$13.72 |
| 125D      | 1" Female Coupler-1¼" Female Thread | 125     | EPDM   | 10/bag | \$13.72 |
| 125E      | 1" Male Adapter-1¼" Hose Shank      | 125     | N/A    | 10/bag | \$6.26  |
| 125F      | 1" Male Adapter-1¼" Male Thread     | 125     | N/A    | 10/bag | \$6.26  |
| 100125CAP | 1" Cap-Male Adapter                 | 125     | EPDM   | 10/bag | \$13.17 |
| 100125PL  | 1" Plug-Female Coupler              | 125     | N/A    | 10/bag | \$5.43  |

**1½" x 1¼" POLY CAM LEVER COUPLINGS**

| PART NO | DESCRIPTION                          | MAX PSI | GASKET | QTY    | PRICE   |
|---------|--------------------------------------|---------|--------|--------|---------|
| 150125A | 1½" Male Adapter-1¼" Female Thread   | 125     | N/A    | 10/bag | \$5.93  |
| 150125B | 1½" Female Coupler-1¼" Male Thread   | 125     | EPDM   | 1      | \$16.08 |
| 150125C | 1½" Female Coupler-1¼" Hose Shank    | 125     | EPDM   | 1      | \$16.08 |
| 150125D | 1½" Female Coupler-1¼" Female Thread | 125     | EPDM   | 1      | \$16.08 |
| 150125E | 1½" Male Adapter-1¼" Hose Shank      | 125     | N/A    | 10/bag | \$6.28  |
| 150125F | 1½" Male Adapter-1¼" Male Thread     | 125     | N/A    | 10/bag | \$6.28  |
| 150CAP  | 1½" Cap-Male Adapter                 | 125     | EPDM   | 1      | \$16.08 |
| 150PL   | 1½" Plug-Female Coupler              | 125     | N/A    | 10/bag | \$6.07  |

**1½" POLY CAM LEVER COUPLINGS**

| PART NO | DESCRIPTION                          | MAX PSI | GASKET | QTY    | PRICE   |
|---------|--------------------------------------|---------|--------|--------|---------|
| 150A    | 1½" Male Adapter-1½" Female Thread   | 125     | N/A    | 10/bag | \$5.93  |
| 150B    | 1½" Female Coupler-1½" Male Thread   | 125     | EPDM   | 1      | \$16.08 |
| 150C    | 1½" Female Coupler-1½" Hose Shank    | 125     | EPDM   | 1      | \$16.08 |
| 150D    | 1½" Female Coupler-1½" Female Thread | 125     | EPDM   | 1      | \$16.08 |
| 150E    | 1½" Male Adapter-1½" Hose Shank      | 125     | N/A    | 10/bag | \$6.28  |
| 150F    | 1½" Male Adapter-1½" Male Thread     | 125     | N/A    | 10/bag | \$6.28  |
| 150CAP  | 1½" Cap-Male Adapter                 | 125     | EPDM   | 1      | \$16.08 |
| 150PL   | 1½" Plug-Female Coupler              | 125     | N/A    | 10/bag | \$6.07  |

**NOTE: 1½" x 1¼" couplings interchange with 1½" size couplings.  
Coupling and Adapter ends are 1½" size. Only the threads and barbs are 1¼".**

**2" POLY CAM LEVER COUPLINGS**

| PART NO  | DESCRIPTION                               | MAX PSI | GASKET | QTY    | PRICE   |
|----------|-------------------------------------------|---------|--------|--------|---------|
| 200A     | 2" Male Adapter-2" Female Thread          | 125     | N/A    | 10/bag | \$6.99  |
| 200B     | 2" Female Coupler-2" Male Thread          | 125     | EPDM   | 1      | \$19.58 |
| 201B     | 2" Female Coupler-2" Extended Male Thread | 125     | EPDM   | 1      | \$19.58 |
| 200C     | 2" Female Coupler-2" Hose Shank           | 125     | EPDM   | 1      | \$19.58 |
| 200D     | 2" Female Coupler-2" Female Thread        | 125     | EPDM   | 1      | \$19.58 |
| 200E     | 2" Male Adapter-2" Hose Shank             | 125     | N/A    | 10/bag | \$8.25  |
| 200F     | 2" Male Adapter-2" Male Thread            | 125     | N/A    | 10/bag | \$8.25  |
| 200CAP   | 2" Cap-Male Adapter                       | 125     | EPDM   | 1      | \$19.58 |
| 200CAPSH | 2" Cap-Male Adapter w/Short Arms          | 125     | EPDM   | 1      | \$19.58 |
| 200PL    | 2" Plug-Female Coupler                    | 125     | N/A    | 10/bag | \$8.19  |

**2½" POLY CAM LEVER COUPLINGS**

| PART NO | DESCRIPTION             | MAX PSI | GASKET | QTY | PRICE   |
|---------|-------------------------|---------|--------|-----|---------|
| 250CAP  | 2½" Cap-Male Adapter    | 50      | EPDM   | 1   | \$50.80 |
| 250PL   | 2½" Plug-Female Coupler | 75      | N/A    | 1   | \$23.09 |



| 3" POLY CAM LEVER COUPLINGS |                                           |         |        |     |         |
|-----------------------------|-------------------------------------------|---------|--------|-----|---------|
| PART NO                     | DESCRIPTION                               | MAX PSI | GASKET | QTY | PRICE   |
| 300A                        | 3" Male Adapter-3" Female Thread          | 75      | N/A    | 1   | \$16.89 |
| 300B                        | 3" Female Coupler-3" Male Thread          | 75      | EPDM   | 1   | \$32.91 |
| 303B                        | 3" Female Coupler-3" Extended Male Thread | 75      | EPDM   | 1   | \$42.22 |
| 300C                        | 3" Female Coupler-3" Hose Shank           | 75      | EPDM   | 1   | \$32.91 |
| 303C                        | 3" Female Coupler w/3 Arms-3" Hose Shank  | 75      | EPDM   | 1   | \$42.22 |
| 300D                        | 3" Female Coupler-3" Female Thread        | 75      | EPDM   | 1   | \$32.91 |
| 300E                        | 3" Male Adapter-3" Hose Shank             | 75      | N/A    | 1   | \$21.64 |
| 300F                        | 3" Male Adapter-3" Male Thread            | 75      | N/A    | 1   | \$21.64 |
| 300CAP                      | 3" Cap-Male Adapter                       | 50      | EPDM   | 1   | \$32.91 |
| 300PL                       | 3" Plug-Female Coupler                    | 75      | N/A    | 1   | \$17.16 |

| REPLACEMENT PARTS POLY CAM ARM W/RING |                               |     |        |
|---------------------------------------|-------------------------------|-----|--------|
| PART NO                               | DESCRIPTION                   | QTY | PRICE  |
| 75K                                   | 1/2" & 3/4" SS Cam Arm w/Ring | 1   | \$3.61 |
| 100K                                  | 1" & 1 1/4" SS Cam Arm w/Ring | 1   | \$3.40 |
| 150(200)K                             | 1 1/2" & 2" SS Cam Arm w/Ring | 1   | \$4.44 |
| 300K                                  | 3" SS Cam Arm w/Ring          | 1   | \$6.28 |

| REPLACEMENT PARTS POLY COUPLING PINS & RINGS |                              |     |        |
|----------------------------------------------|------------------------------|-----|--------|
| PART NO                                      | DESCRIPTION                  | QTY | PRICE  |
| 75P                                          | 1/2" & 3/4" Pin              | 1   | \$0.81 |
| 100P                                         | 1" & 1 1/4" Pin              | 1   | \$0.81 |
| 200P                                         | 1 1/2" & 2" Pin              | 1   | \$1.00 |
| 300P                                         | 3" & 4" Pin                  | 1   | \$1.97 |
| 100RING                                      | 1/2", 3/4", 1" & 1 1/4" Ring | 1   | \$0.68 |
| 150RING                                      | 1 1/2", 2" & 3" Ring         | 1   | \$0.78 |

| REPLACEMENT PARTS POLY COUPLING |             |     |        |
|---------------------------------|-------------|-----|--------|
| PART NO                         | DESCRIPTION | QTY | PRICE  |
| V20207                          | 11" Lanyard | 1   | \$2.11 |

Note: PTFE Gaskets available upon request.

| 4" w/3 ARMS POLY CAM LEVER COUPLINGS |                                    |         |        |     |         |
|--------------------------------------|------------------------------------|---------|--------|-----|---------|
| PART NO                              | DESCRIPTION                        | MAX PSI | GASKET | QTY | PRICE   |
| 400A                                 | 4" Male Adapter-4" Female Thread   | 75      | N/A    | 1   | \$25.76 |
| 400B                                 | 4" Female Coupler-4" Male Thread   | 75      | EPDM   | 1   | \$65.22 |
| 400C                                 | 4" Female Coupler-4" Hose Shank    | 75      | EPDM   | 1   | \$65.22 |
| 400D                                 | 4" Female Coupler-4" Female Thread | 75      | EPDM   | 1   | \$65.22 |
| 400E                                 | 4" Male Adapter-4" Hose Shank      | 75      | N/A    | 1   | \$25.76 |
| 400F                                 | 4" Male Adapter-4" Male Thread     | 75      | N/A    | 1   | \$25.76 |
| 400CAP                               | 4" Cap-Male Adapter (w/2 arms)     | 50      | EPDM   | 1   | \$47.57 |
| 400PL                                | 4" Plug-Female Coupler             | 75      | N/A    | 1   | \$20.25 |



| SPOOL ADAPTERS |                                 |         |        |        |         |
|----------------|---------------------------------|---------|--------|--------|---------|
| PART NO        | DESCRIPTION                     | MAX PSI | GASKET | QTY    | PRICE   |
| 200FF          | 2" Male Adapter-2" Male Adapter | 125     | N/A    | 10/bag | \$21.53 |
| 300F200F       | 3" Male Adapter-2" Male Adapter | 125     | N/A    | 1      | \$43.10 |
| 300FF          | 3" Male Adapter-3" Male Adapter | 125     | N/A    | 1      | \$43.10 |

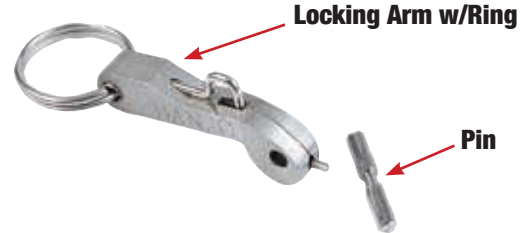
| REPLACEMENT PARTS POLY COUPLING GASKETS |                                            |         |         |
|-----------------------------------------|--------------------------------------------|---------|---------|
| PART NO                                 | DESCRIPTION                                | QTY     | PRICE   |
| 75G                                     | 1/2" & 3/4" EPDM Gasket                    | 100/bag | \$0.94  |
| 75GB                                    | 1/2" & 3/4" Buna Gasket                    | 100/bag | \$1.09  |
| 75GV                                    | 1/2" & 3/4" FKM (viton type) Gasket        | 100/bag | \$10.83 |
| 075GXT                                  | 1/2" & 3/4" Extra Thick EPDM Gasket        | 100/bag | \$1.42  |
| 100G                                    | 1" & 1 1/4" EPDM Gasket                    | 100/bag | \$0.94  |
| 100GB                                   | 1" & 1 1/4" Buna Gasket                    | 100/bag | \$1.09  |
| 100GV                                   | 1" & 1 1/4" FKM (viton type) Gasket        | 100/bag | \$10.63 |
| 100GXT                                  | 1" & 1 1/4" Extra Thick EPDM Gasket        | 100/bag | \$1.55  |
| 150G                                    | 1 1/2" EPDM Gasket                         | 100/bag | \$1.00  |
| 150GB                                   | 1 1/2" Buna Gasket                         | 100/bag | \$1.22  |
| 150GV                                   | 1 1/2" FKM (viton type) Gasket             | 100/bag | \$11.06 |
| 150GXT                                  | 1 1/2" Extra Thick EPDM Gasket             | 100/bag | \$1.79  |
| 150GXTV                                 | 1 1/2" Extra Thick FKM (viton type) Gasket | 1/bag   | \$13.18 |
| 200G                                    | 2" EPDM Gasket                             | 50/bag  | \$1.06  |
| 200GB                                   | 2" Buna Gasket                             | 50/bag  | \$1.28  |
| 200GV                                   | 2" FKM (viton type) Gasket                 | 50/bag  | \$18.82 |
| 200GXT                                  | 2" Extra Thick EPDM Gasket                 | 50/bag  | \$2.24  |
| 200GXTV                                 | 2" Extra Thick FKM (viton type) Gasket     | 1/bag   | \$17.14 |
| 250G                                    | 2 1/2" EPDM Gasket                         | 50/bag  | \$1.45  |
| 300G                                    | 3" EPDM Gasket                             | 25/bag  | \$1.45  |
| 300GB                                   | 3" Buna Gasket                             | 25/bag  | \$1.74  |
| 300GV                                   | 3" FKM (viton type) Gasket                 | 25/bag  | \$23.53 |
| 300GXT                                  | 3" Extra Thick EPDM Gasket                 | 25/bag  | \$2.98  |
| 300GVXT                                 | 3" Extra Thick FKM (viton type) Gasket     | 1/bag   | \$28.05 |
| 400G                                    | 4" EPDM Gasket                             | 25/bag  | \$3.40  |
| 400GB                                   | 4" Buna Gasket                             | 25/bag  | \$4.02  |
| 400GV                                   | 4" FKM (viton type) Gasket                 | 25/bag  | \$30.81 |
| 400GXT                                  | 4" Extra Thick EPDM Gasket                 | 25/bag  | \$4.08  |

# Locking Cam Lever Poly Couplings

PATENT PENDING

**Easy Action Locking Lever!****FEATURES**

- All stainless steel construction.
- Easy action lever.
- Excellent for high vibration applications.

**Locking Arm w/Ring****Pin****1 1/2" POLY LOCKING CAM LEVER COUPLINGS**

| PART NO | DESCRIPTION                         | MAX PSI | GASKET | QTY | PRICE   |
|---------|-------------------------------------|---------|--------|-----|---------|
| L150B   | 1 1/2" Female Coupler-Male Thread   | 125     | EPDM   | 1   | \$34.56 |
| L150C   | 1 1/2" Female Coupler-Hose Shank    | 125     | EPDM   | 1   | \$34.56 |
| L150D   | 1 1/2" Female Coupler-Female Thread | 125     | EPDM   | 1   | \$34.56 |
| L150CAP | 1 1/2" Cap-Male Adapter             | 125     | EPDM   | 1   | \$34.56 |

**1 1/2" & 2" POLY LOCKING CAM ARM W/RING & PIN**

| PART NO | DESCRIPTION               | MAX PSI | GASKET | QTY | PRICE   |
|---------|---------------------------|---------|--------|-----|---------|
| 200KL   | 2" Locking Cam Arm w/Ring | N/A     | N/A    | 1   | \$13.18 |
| 200PKL  | 2" Coupling Pin           | N/A     | N/A    | 1   | \$2.64  |

**2" POLY LOCKING CAM LEVER COUPLINGS**

| PART NO | DESCRIPTION                     | MAX PSI | GASKET | QTY | PRICE   |
|---------|---------------------------------|---------|--------|-----|---------|
| L200B   | 2" Female Coupler-Male Thread   | 125     | EPDM   | 1   | \$38.07 |
| L200C   | 2" Female Coupler-Hose Shank    | 125     | EPDM   | 1   | \$38.07 |
| L200D   | 2" Female Coupler-Female Thread | 125     | EPDM   | 1   | \$38.07 |
| L200CAP | 2" Cap-Male Adapter             | 125     | EPDM   | 1   | \$38.07 |

**Note: Fits 1 1/2" & 2" Poly Couplings Only**

**WARNING:** Locking Cam Arm Lever is not intended to be used as a security device or to prevent unauthorized opening of coupling assembly.

**2" x 1 1/2" PART C**

| PART NO | DESCRIPTION                          | MAX PSI | GASKET | QTY | PRICE   |
|---------|--------------------------------------|---------|--------|-----|---------|
| 200150C | 2" Female Coupler- 1 1/2" Hose Shank | 125     | EPDM   | 1   | \$18.51 |

**3" w/3 ARMS POLY CAM LEVER COUPLINGS**

| PART NO  | DESCRIPTION                                | MAX PSI | GASKET | QTY | PRICE   |
|----------|--------------------------------------------|---------|--------|-----|---------|
| 303B200A | 3" Female Coupler w/3 Arms-2" Male Adapter | 75      | EPDM   | 1   | \$58.77 |

**201B****303B****303C****POLY CAM LEVER COUPLINGS**

| PART NO | DESCRIPTION                               | MAX PSI | GASKET | QTY | PRICE   |
|---------|-------------------------------------------|---------|--------|-----|---------|
| 201B    | 2" Female Coupler-2" Extended Male Thread | 125     | EPDM   | 1   | \$19.58 |
| 303B    | 3" Female Coupler-3" Extended Male Thread | 75      | EPDM   | 1   | \$42.22 |
| 303C    | 3" Female Coupler w/3 Arms-3" Hose Shank  | 75      | EPDM   | 1   | \$42.22 |



# 1½" & 2" Polypropylene 90° Couplings

## FEATURES

- Precision molded in polypropylene, reinforced with fiberglass for strength and durability.
- Stainless steel rings, cam levers and pins resist corrosion.
- Banjo 90° angle couplings and adapters will reduce the number of elbows and other pipe fittings used in plumbing applications.

### 1½" 90° POLY CAM LEVER COUPLINGS

| PART NO | DESCRIPTION                              | MAX PSI | GASKET | QTY | PRICE   |
|---------|------------------------------------------|---------|--------|-----|---------|
| 150A90  | 1½" 90° Male Adapter-1½" Female Thread   | 125     | EPDM   | 1   | \$9.35  |
| 150C90  | 1½" 90° Female Coupler-1½" Hose Shank    | 125     | EPDM   | 1   | \$19.26 |
| 150D90  | 1½" 90° Female Coupler-1½" Female Thread | 125     | EPDM   | 1   | \$19.26 |
| 150F90  | 1½" 90° Male Adapter-1½" Male Thread     | 125     | EPDM   | 1   | \$11.21 |

### 2" 90° POLY CAM LEVER COUPLINGS

| PART NO   | DESCRIPTION                                  | MAX PSI | GASKET | QTY | PRICE   |
|-----------|----------------------------------------------|---------|--------|-----|---------|
| 200A90    | 2" 90° Male Adapter-2" Female Thread         | 125     | EPDM   | 1   | \$10.67 |
| 200B90    | 2" 90° Female Coupler-2" Male Thread         | 125     | EPDM   | 1   | \$23.89 |
| 200C90    | 2" 90° Female Coupler-2" Hose Shank          | 125     | EPDM   | 1   | \$23.89 |
| 200D90    | 2" 90° Female Coupler-2" Female Thread       | 125     | EPDM   | 1   | \$23.89 |
| 200F90    | 2" 90° Male Adapter-2" Male Thread           | 125     | EPDM   | 1   | \$12.02 |
| 220FSWP90 | 2" Male Adapter w/90° Sweep - 2" Male Thread | 125     | EPDM   | 1   | \$43.98 |



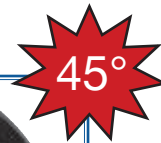
## 2" Polypropylene 45° Couplings



**WARNING: Couplings should not be disconnected under pressure or with liquid in the line.**

### 2" 45° POLY CAM LEVER COUPLINGS

| PART NO | DESCRIPTION                        | MAX PSI | GASKET | QTY    | PRICE   |
|---------|------------------------------------|---------|--------|--------|---------|
| 200F45  | 2" 45° Male Adapter-2" Male Thread | 125     | N/A    | 10/bag | \$18.83 |



## Polypropylene Switch-a-Roos

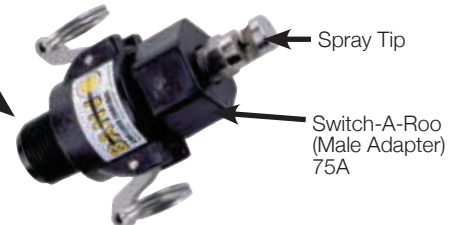
## FEATURES

- The Switch-A-Roo is a fast, convenient method of changing spray nozzles on fertilizer application equipment.
- Precision molded in polypropylene (fiberglass reinforced) for high strength and toughness.
- The female coupling is available in either ½" or ¾" pipe thread and normally mounted on the spray boom.
- The male adapter is available in four different thread sizes ¼", ⅜", ½", and ¾" to fit all size spray nozzles.
- Switch-A-Roo's available with self-aligning grooves.

### POLY SWITCH-A-ROOS

| PART NO   | DESCRIPTION                               | QTY    | PRICE   |
|-----------|-------------------------------------------|--------|---------|
| 75A1/4/SA | ¾" Male Adapter-¼" w/Self-aligning Groove | 10/bag | \$5.22  |
| 75A3/8/SA | ¾" Male Adapter-⅜" w/Self-aligning Groove | 10/bag | \$5.22  |
| 75A1/2/SA | ¾" Male Adapter-½" w/Self-aligning Groove | 10/bag | \$5.22  |
| 75A3/4/SA | ¾" Male Adapter-¾" w/Self-aligning Groove | 10/bag | \$5.22  |
| 75A1/4    | ¾" Male Adapter-¼" Female Thread          | 10/bag | \$5.22  |
| 75A3/8    | ¾" Male Adapter-⅜" Female Thread          | 10/bag | \$5.22  |
| 75A1/2    | ¾" Male Adapter-½" Female Thread          | 10/bag | \$5.22  |
| 75A3/4    | ¾" Male Adapter-¾" Female Thread          | 10/bag | \$5.22  |
| 75B1/2    | ¾" Female Coupler-½" Male Thread          | 10/bag | \$11.94 |
| 75B3/4    | ¾" Female Coupler-¾" Male Thread          | 10/bag | \$11.94 |

Cam Lever Coupling 75B



Switch-A-Roo (Male Adapter) 75A

¾" Female Coupler



¾" Male Adapter

Self-Aligning Knurl

Available with ¼", ⅜", ½", ¾" Female Threads





# Polypropylene Pipe Fittings

## FEATURES

- Glass reinforced polypropylene.
- Heavy duty (Schedule 80).
- Lightweight with excellent strength.
- NPT threads.
- Excellent chemical resistance.
- Pressure to 150 P.S.I. at 70°F.



## POLY NIPPLES

| PART NO   | DESCRIPTION              | QTY    | PRICE   |
|-----------|--------------------------|--------|---------|
| NIP025-SH | 1/4" Short Poly Nipple   | 10/bag | \$1.19  |
| NIP038-SH | 3/8" Short Poly Nipple   | 10/bag | \$1.19  |
| NIP050-SH | 1/2" Short Poly Nipple   | 10/bag | \$1.32  |
| NIP050-3  | 1/2" x 3" Poly Nipple    | 10/bag | \$2.52  |
| NIP075-SH | 3/4" Short Poly Nipple   | 10/bag | \$1.37  |
| NIP075-4  | 3/4" x 4" Poly Nipple    | 10/bag | \$2.64  |
| NIP075-6  | 3/4" x 6" Poly Nipple    | 10/bag | \$3.09  |
| NIP100-SH | 1" Short Poly Nipple     | 10/bag | \$1.96  |
| NIP100-4  | 1" x 4" Poly Nipple      | 10/bag | \$2.78  |
| NIP100-6  | 1" x 6" Poly Nipple      | 10/bag | \$3.47  |
| NIP125-SH | 1 1/4" Short Poly Nipple | 10/bag | \$1.96  |
| NIP125-4  | 1 1/4" x 4" Poly Nipple  | 10/bag | \$3.47  |
| NIP125-6  | 1 1/4" x 6" Poly Nipple  | 10/bag | \$3.94  |
| NIP150-SH | 1 1/2" Short Poly Nipple | 10/bag | \$3.61  |
| NIP150-3  | 1 1/2" x 3" Poly Nipple  | 10/bag | \$4.45  |
| NIP150-4  | 1 1/2" x 4" Poly Nipple  | 10/bag | \$7.41  |
| NIP150-5  | 1 1/2" x 5" Poly Nipple  | 10/bag | \$8.29  |
| NIP150-6  | 1 1/2" x 6" Poly Nipple  | 10/bag | \$8.72  |
| NIP200-SH | 2" Short Poly Nipple     | 10/bag | \$4.09  |
| NIP200-4  | 2" x 4" Poly Nipple      | 10/bag | \$8.62  |
| NIP200-6  | 2" x 6" Poly Nipple      | 10/bag | \$10.06 |
| NIP300-SH | 3" Short Poly Nipple     | 1      | \$12.82 |
| NIP300-4  | 3" x 4" Poly Nipple      | 1      | \$19.26 |
| NIP300-6  | 3" x 6" Poly Nipple      | 1      | \$24.83 |
| NIP400-SH | 4" Short Poly Nipple     | 1      | \$19.95 |



## POLY REDUCING NIPPLES

| PART NO   | DESCRIPTION                          | QTY    | PRICE   |
|-----------|--------------------------------------|--------|---------|
| RN050-038 | 1/2" x 3/8" Poly Reducing Nipple     | 10/bag | \$2.00  |
| RN075-050 | 3/4" x 1/2" Poly Reducing Nipple     | 10/bag | \$2.15  |
| RN100-050 | 1" x 1/2" Poly Reducing Nipple       | 10/bag | \$2.75  |
| RN100-075 | 1" x 3/4" Poly Reducing Nipple       | 10/bag | \$2.52  |
| RN125-075 | 1 1/4" x 3/4" Poly Reducing Nipple   | 10/bag | \$2.90  |
| RN125-100 | 1 1/4" x 1" Poly Reducing Nipple     | 10/bag | \$2.64  |
| RN150-100 | 1 1/2" x 1" Poly Reducing Nipple     | 10/bag | \$3.12  |
| RN150-125 | 1 1/2" x 1 1/4" Poly Reducing Nipple | 10/bag | \$2.78  |
| RN200-125 | 2" x 1 1/4" Poly Reducing Nipple     | 10/bag | \$3.81  |
| RN200-150 | 2" x 1 1/2" Poly Reducing Nipple     | 10/bag | \$3.10  |
| RN300-200 | 3" x 2" Poly Reducing Nipple         | 1      | \$12.76 |



## POLY PIPE COUPLINGS

| PART NO | DESCRIPTION               | QTY    | PRICE   |
|---------|---------------------------|--------|---------|
| CPLG025 | 1/4" Poly Pipe Coupling   | 10/bag | \$3.58  |
| CPLG038 | 3/8" Poly Pipe Coupling   | 10/bag | \$4.03  |
| CPLG050 | 1/2" Poly Pipe Coupling   | 10/bag | \$4.03  |
| CPLG075 | 3/4" Poly Pipe Coupling   | 10/bag | \$4.03  |
| CPLG100 | 1" Poly Pipe Coupling     | 10/bag | \$4.58  |
| CPLG125 | 1 1/4" Poly Pipe Coupling | 10/bag | \$6.17  |
| CPLG150 | 1 1/2" Poly Pipe Coupling | 10/bag | \$10.26 |
| CPLG200 | 2" Poly Pipe Coupling     | 10/bag | \$11.71 |
| CPLG300 | 3" Poly Pipe Coupling     | 1      | \$33.12 |



## POLY REDUCING COUPLINGS

| PART NO   | DESCRIPTION                            | QTY    | PRICE   |
|-----------|----------------------------------------|--------|---------|
| RC100-075 | 1" x 3/4" Poly Reducing Coupling       | 10/bag | \$5.96  |
| RC150-100 | 1 1/2" x 1" Poly Reducing Coupling     | 10/bag | \$10.12 |
| RC150-125 | 1 1/2" x 1 1/4" Poly Reducing Coupling | 10/bag | \$10.12 |
| RC200-050 | 2" x 1/2" Poly Reducing Coupling       | 10/bag | \$10.75 |
| RC200-100 | 2" x 1" Poly Reducing Coupling         | 10/bag | \$10.75 |
| RC200-125 | 2" x 1 1/4" Poly Reducing Coupling     | 10/bag | \$10.75 |
| RC200-150 | 2" x 1 1/2" Poly Reducing Coupling     | 10/bag | \$10.75 |
| RC300-200 | 3" x 2" Poly Reducing Coupling         | 1      | \$38.18 |



## POLY REDUCING BUSHING

| PART NO   | DESCRIPTION                              | QTY    | PRICE   |
|-----------|------------------------------------------|--------|---------|
| RB038-025 | 3/8" MPT x 1/4" FPT Reducing Bushing     | 10/bag | \$2.64  |
| RB050-018 | 1/2" MPT x 3/8" FPT Reducing Bushing     | 10/bag | \$2.64  |
| RB050-025 | 1/2" MPT x 1/4" FPT Reducing Bushing     | 10/bag | \$2.64  |
| RB050-038 | 1/2" MPT x 3/8" FPT Reducing Bushing     | 10/bag | \$2.64  |
| RB075-018 | 3/4" MPT x 1/8" FPT Reducing Bushing     | 10/bag | \$2.64  |
| RB075-025 | 3/4" MPT x 1/4" FPT Reducing Bushing     | 10/bag | \$2.64  |
| RB075-038 | 3/4" MPT x 3/8" FPT Reducing Bushing     | 10/bag | \$2.64  |
| RB075-050 | 3/4" MPT x 1/2" FPT Reducing Bushing     | 10/bag | \$2.64  |
| RB100-018 | 1" MPT x 1/8" FPT Reducing Bushing       | 10/bag | \$2.78  |
| RB100-025 | 1" MPT x 1/4" FPT Reducing Bushing       | 10/bag | \$2.78  |
| RB100-050 | 1" MPT x 1/2" FPT Reducing Bushing       | 10/bag | \$2.78  |
| RB100-075 | 1" MPT x 3/4" FPT Reducing Bushing       | 10/bag | \$2.78  |
| RB125-038 | 1 1/4" MPT x 3/8" FPT Reducing Bushing   | 10/bag | \$2.78  |
| RB125-075 | 1 1/4" MPT x 3/4" FPT Reducing Bushing   | 10/bag | \$2.78  |
| RB125-100 | 1 1/4" MPT x 1" FPT Reducing Bushing     | 10/bag | \$2.78  |
| RB150-075 | 1 1/2" MPT x 3/4" FPT Reducing Bushing   | 10/bag | \$3.69  |
| RB150-100 | 1 1/2" MPT x 1" FPT Reducing Bushing     | 10/bag | \$3.69  |
| RB150-125 | 1 1/2" MPT x 1 1/4" FPT Reducing Bushing | 10/bag | \$3.69  |
| RB200-075 | 2" MPT x 3/4" FPT Reducing Bushing       | 10/bag | \$4.03  |
| RB200-100 | 2" MPT x 1" FPT Reducing Bushing         | 10/bag | \$4.03  |
| RB200-125 | 2" MPT x 1 1/4" FPT Reducing Bushing     | 10/bag | \$4.03  |
| RB200-150 | 2" MPT x 1 1/2" FPT Reducing Bushing     | 10/bag | \$4.03  |
| RB300-150 | 3" MPT x 1 1/2" FPT Reducing Bushing     | 1      | \$16.75 |
| RB300-200 | 3" MPT x 2" FPT Reducing Bushing         | 1      | \$16.75 |
| RB400-300 | 4" MPT x 3" FPT Reducing Bushing         | 1      | \$25.98 |

# Polypropylene Pipe Fittings

- Glass reinforced polypropylene.
- Heavy duty (Schedule 80).
- Lightweight with excellent strength.
- NPT threads.
- Excellent chemical resistance.
- Pressure to 150 P.S.I. at 70°F.

Please order in bag/box quantities for quick and easy shipping /receiving of your order. Use BANJO Part Numbers when ordering. All items priced each, not per bag or box quantity.



## POLY PIPE CAPS

| PART NO | DESCRIPTION          | QTY    | PRICE   |
|---------|----------------------|--------|---------|
| CAP025  | 1/4" Poly Pipe Cap   | 10/bag | \$2.41  |
| CAP038  | 3/8" Poly Pipe Cap   | 10/bag | \$2.58  |
| CAP050  | 1/2" Poly Pipe Cap   | 10/bag | \$5.40  |
| CAP075  | 3/4" Poly Pipe Cap   | 10/bag | \$5.40  |
| CAP100  | 1" Poly Pipe Cap     | 10/bag | \$5.40  |
| CAP125  | 1 1/4" Poly Pipe Cap | 10/bag | \$6.07  |
| CAP150  | 1 1/2" Poly Pipe Cap | 10/bag | \$7.64  |
| CAP200  | 2" Poly Pipe Cap     | 10/bag | \$8.87  |
| CAP300  | 3" Poly Pipe Cap     | 1      | \$31.74 |



## POLY CROSSES

| PART NO | DESCRIPTION       | QTY    | PRICE   |
|---------|-------------------|--------|---------|
| CR025   | 1/4" Poly Cross   | 10/bag | \$11.47 |
| CR038   | 3/8" Poly Cross   | 10/bag | \$12.59 |
| CR050   | 1/2" Poly Cross   | 5/bag  | \$17.88 |
| CR075   | 3/4" Poly Cross   | 5/bag  | \$17.88 |
| CR100   | 1" Poly Cross     | 5/bag  | \$17.88 |
| CR125   | 1 1/4" Poly Cross | 1      | \$26.66 |
| CR150   | 1 1/2" Poly Cross | 1      | \$26.66 |
| CR200   | 2" Poly Cross     | 1      | \$32.63 |



## POLY PIPE PLUGS

| PART NO | DESCRIPTION           | QTY    | PRICE   |
|---------|-----------------------|--------|---------|
| PLUG025 | 1/4" Poly Pipe Plug   | 10/bag | \$2.24  |
| PLUG038 | 3/8" Poly Pipe Plug   | 10/bag | \$2.41  |
| PLUG050 | 1/2" Poly Pipe Plug   | 10/bag | \$2.78  |
| PLUG075 | 3/4" Poly Pipe Plug   | 10/bag | \$2.78  |
| PLUG100 | 1" Poly Pipe Plug     | 10/bag | \$2.78  |
| PLUG125 | 1 1/4" Poly Pipe Plug | 10/bag | \$2.78  |
| PLUG150 | 1 1/2" Poly Pipe Plug | 10/bag | \$4.45  |
| PLUG200 | 2" Poly Pipe Plug     | 10/bag | \$4.45  |
| PLUG300 | 3" Poly Pipe Plug     | 1      | \$17.54 |



## POLY TEES

| PART NO | DESCRIPTION     | QTY    | PRICE   |
|---------|-----------------|--------|---------|
| TEE025  | 1/4" Poly Tee   | 10/bag | \$3.75  |
| TEE038  | 3/8" Poly Tee   | 10/bag | \$3.88  |
| TEE050  | 1/2" Poly Tee   | 10/bag | \$4.09  |
| TEE075  | 3/4" Poly Tee   | 10/bag | \$4.38  |
| TEE100  | 1" Poly Tee     | 10/bag | \$6.32  |
| TEE125  | 1 1/4" Poly Tee | 10/bag | \$7.29  |
| TEE150  | 1 1/2" Poly Tee | 1      | \$10.46 |
| TEE200  | 2" Poly Tee     | 1      | \$13.03 |
| TEE300  | 3" Poly Tee     | 1      | \$62.10 |



## POLY CROSSES

| PART NO   | DESCRIPTION                 | QTY | PRICE   |
|-----------|-----------------------------|-----|---------|
| HBC050075 | 1/2" x 3/4" Hose Barb Cross | 1   | \$17.88 |



## POLY GAUGE TEE (GAUGE NOT INCLUDED)

| PART NO | DESCRIPTION                         | QTY    | PRICE   |
|---------|-------------------------------------|--------|---------|
| TEG075  | 3/4" Poly Tee w/ 1/4" Female Thread | 10/bag | \$17.73 |
| TEG100  | 1" Poly Tee w/ 1/4" Female Thread   | 10/bag | \$17.73 |

**90° POLY ELBOWS**

| PART NO  | DESCRIPTION           | QTY    | PRICE   |
|----------|-----------------------|--------|---------|
| EL025-90 | 1/4" 90° Poly Elbow   | 10/bag | \$3.14  |
| EL038-90 | 3/8" 90° Poly Elbow   | 10/bag | \$3.89  |
| EL050-90 | 1/2" 90° Poly Elbow   | 10/bag | \$3.52  |
| EL075-90 | 3/4" 90° Poly Elbow   | 10/bag | \$3.81  |
| EL100-90 | 1" 90° Poly Elbow     | 10/bag | \$4.50  |
| EL125-90 | 1 1/4" 90° Poly Elbow | 10/bag | \$5.62  |
| EL150-90 | 1 1/2" 90° Poly Elbow | 10/bag | \$8.81  |
| EL200-90 | 2" 90° Poly Elbow     | 1      | \$10.46 |
| EL300-90 | 3" 90° Poly Elbow     | 1      | \$53.21 |

**90° POLY ELBOW**

| PART NO    | DESCRIPTION                 | QTY    | PRICE  |
|------------|-----------------------------|--------|--------|
| HBEL100-90 | 1" 90° Poly Hose Barb Elbow | 10/bag | \$2.24 |

**45° POLY ELBOW**

| PART NO  | DESCRIPTION              | QTY    | PRICE   |
|----------|--------------------------|--------|---------|
| EL100-45 | 1" 45° Poly Street Elbow | 10/bag | \$12.12 |

**90° POLY ELBOW**

| PART NO      | DESCRIPTION                          | QTY    | PRICE   |
|--------------|--------------------------------------|--------|---------|
| HBEL20012590 | 2" x 1 1/4" 90° Poly Hose Barb Elbow | 10/bag | \$13.34 |

**90° POLY STREET ELBOWS**

| PART NO  | DESCRIPTION                  | QTY    | PRICE   |
|----------|------------------------------|--------|---------|
| SL025-90 | 1/4" 90° Poly Street Elbow   | 10/bag | \$3.14  |
| SL038-90 | 3/8" 90° Poly Street Elbow   | 10/bag | \$3.69  |
| SL050-90 | 1/2" 90° Poly Street Elbow   | 10/bag | \$3.69  |
| SL075-90 | 3/4" 90° Poly Street Elbow   | 10/bag | \$3.94  |
| SL100-90 | 1" 90° Poly Street Elbow     | 10/bag | \$4.66  |
| SL125-90 | 1 1/4" 90° Poly Street Elbow | 10/bag | \$5.83  |
| SL150-90 | 1 1/2" 90° Poly Street Elbow | 10/bag | \$9.08  |
| SL200-90 | 2" 90° Poly Street Elbow     | 1      | \$10.78 |
| SL300-90 | 3" 90° Poly Street Elbow     | 1      | \$54.88 |

**90° POLY ELBOW**

| PART NO        | DESCRIPTION                          | QTY | PRICE   |
|----------------|--------------------------------------|-----|---------|
| HBEL150/100-90 | 1 1/2" x 1" 90° Poly Hose Barb Elbow | 1   | \$20.45 |

**45° POLY STREET ELBOWS**

| PART NO  | DESCRIPTION                  | QTY    | PRICE   |
|----------|------------------------------|--------|---------|
| SL075-45 | 3/4" 45° Poly Street Elbow   | 10/bag | \$6.34  |
| SL100-45 | 1" 45° Poly Street Elbow     | 10/bag | \$9.29  |
| SL125-45 | 1 1/4" 45° Poly Street Elbow | 10/bag | \$11.51 |
| SL150-45 | 1 1/2" 45° Poly Street Elbow | 10/bag | \$12.28 |
| SL200-45 | 2" 45° Poly Street Elbow     | 1      | \$14.56 |
| SL300-45 | 3" 45° Poly Street Elbow     | 1      | \$60.28 |

# Polypropylene Pipe Fittings



## POLY STRAIGHT HOSE BARBS

| PART NO   | DESCRIPTION                           | QTY    | PRICE   |
|-----------|---------------------------------------|--------|---------|
| HB025     | 1/4" Male Thread x 1/4" Hose Barb     | 10/bag | \$1.13  |
| HB025-038 | 1/4" Male Thread x 3/8" Hose Barb     | 10/bag | \$1.13  |
| HB025-050 | 1/4" Male Thread x 1/2" Hose Barb     | 10/bag | \$1.33  |
| HB038     | 3/8" Male Thread x 3/8" Hose Barb     | 10/bag | \$1.21  |
| HB038-025 | 3/8" Male Thread x 1/4" Hose Barb     | 10/bag | \$1.21  |
| HB038-050 | 3/8" Male Thread x 1/2" Hose Barb     | 10/bag | \$1.21  |
| HB050-025 | 1/2" Male Thread x 1/4" Hose Barb     | 10/bag | \$1.21  |
| HB050-038 | 1/2" Male Thread x 3/8" Hose Barb     | 10/bag | \$1.21  |
| HB050     | 1/2" Male Thread x 1/2" Hose Barb     | 10/bag | \$1.21  |
| HB050-075 | 1/2" Male Thread x 3/4" Hose Barb     | 10/bag | \$1.33  |
| HB075-038 | 3/4" Male Thread x 3/8" Hose Barb     | 10/bag | \$1.33  |
| HB075-050 | 3/4" Male Thread x 1/2" Hose Barb     | 10/bag | \$1.33  |
| HB075-058 | 3/4" Male Thread x 5/8" Hose Barb     | 10/bag | \$1.65  |
| HB075     | 3/4" Male Thread x 3/4" Hose Barb     | 10/bag | \$1.33  |
| HB075-100 | 3/4" Male Thread x 1" Hose Barb       | 10/bag | \$1.65  |
| HB100-075 | 1" Male Thread x 3/4" Hose Barb       | 10/bag | \$1.65  |
| HB100     | 1" Male Thread x 1" Hose Barb         | 10/bag | \$1.65  |
| HB100-125 | 1" Male Thread x 1 1/4" Hose Barb     | 10/bag | \$2.02  |
| HB125-075 | 1 1/4" Male Thread x 3/4" Hose Barb   | 10/bag | \$2.02  |
| HB125-100 | 1 1/4" Male Thread x 1" Hose Barb     | 10/bag | \$2.02  |
| HB125     | 1 1/4" Male Thread x 1 1/4" Hose Barb | 10/bag | \$2.02  |
| HB125-150 | 1 1/4" Male Thread x 1 1/2" Hose Barb | 10/bag | \$3.85  |
| HB150-100 | 1 1/2" Male Thread x 1" Hose Barb     | 10/bag | \$3.02  |
| HB150-125 | 1 1/2" Male Thread x 1 1/4" Hose Barb | 10/bag | \$3.02  |
| HB150     | 1 1/2" Male Thread x 1 1/2" Hose Barb | 10/bag | \$3.37  |
| HB150-200 | 1 1/2" Male Thread x 2" Hose Barb     | 10/bag | \$5.18  |
| HB200-150 | 2" Male Thread x 1 1/2" Hose Barb     | 10/bag | \$5.18  |
| HB200     | 2" Male Thread x 2" Hose Barb         | 10/bag | \$4.13  |
| HB300     | 3" Male Thread x 3" Hose Barb         | 1      | \$13.32 |
| HB400     | 4" Male Thread x 4" Hose Barb         | 1      | \$27.92 |



## POLY 90° HOSE BARBS

| PART NO      | DESCRIPTION                               | QTY    | PRICE   |
|--------------|-------------------------------------------|--------|---------|
| HB025-90     | 1/4" Male Thread x 1/4" 90° Hose Barb     | 10/bag | \$1.33  |
| HB025/038-90 | 1/4" Male Thread x 3/8" 90° Hose Barb     | 10/bag | \$1.33  |
| HB025/050-90 | 1/4" Male Thread x 1/2" 90° Hose Barb     | 10/bag | \$1.33  |
| HB038-90     | 3/8" Male Thread x 3/8" 90° Hose Barb     | 10/bag | \$1.33  |
| HB050/038-90 | 1/2" Male Thread x 3/8" 90° Hose Barb     | 10/bag | \$1.33  |
| HB050-90     | 1/2" Male Thread x 1/2" 90° Hose Barb     | 10/bag | \$1.33  |
| HB050/075-90 | 1/2" Male Thread x 3/4" 90° Hose Barb     | 10/bag | \$1.33  |
| HB075/050-90 | 3/4" Male Thread x 1/2" 90° Hose Barb     | 10/bag | \$1.69  |
| HB075-90     | 3/4" Male Thread x 3/4" 90° Hose Barb     | 10/bag | \$1.69  |
| HB075/100-90 | 3/4" Male Thread x 1" 90° Hose Barb       | 10/bag | \$1.69  |
| HB100/075-90 | 1" Male Thread x 3/4" 90° Hose Barb       | 10/bag | \$2.17  |
| HB100-90     | 1" Male Thread x 1" 90° Hose Barb         | 10/bag | \$2.17  |
| HB100/125-90 | 1" Male Thread x 1 1/4" 90° Hose Barb     | 10/bag | \$2.66  |
| HB125/100-90 | 1 1/4" Male Thread x 1" 90° Hose Barb     | 10/bag | \$2.66  |
| HB125-90     | 1 1/4" Male Thread x 1 1/4" 90° Hose Barb | 10/bag | \$2.66  |
| HB125/150-90 | 1 1/4" Male Thread x 1 1/2" 90° Hose Barb | 10/bag | \$7.64  |
| HB150/125-90 | 1 1/2" Male Thread x 1 1/4" 90° Hose Barb | 10/bag | \$7.64  |
| HB150-90     | 1 1/2" Male Thread x 1 1/2" 90° Hose Barb | 10/bag | \$7.64  |
| HB200/150-90 | 2" Male Thread x 1 1/2" 90° Hose Barb     | 10/bag | \$8.37  |
| HB200-90     | 2" Male Thread x 2" 90° Hose Barb         | 10/bag | \$8.37  |
| HB300-90     | 3" Male Thread x 3" 90° Hose Barb         | 1      | \$40.45 |



## 316 SS HOSE BARBS

| PART NO     | DESCRIPTION                            | QTY | PRICE    |
|-------------|----------------------------------------|-----|----------|
| HB025SS     | 1/4" Male Thread x 1/4" Hose Shank     | 1   | \$15.00  |
| HB025-038SS | 1/4" Male Thread x 3/8" Hose Shank     | 1   | \$15.00  |
| HB025-050SS | 1/4" Male Thread x 1/2" Hose Shank     | 1   | \$15.00  |
| HB038SS     | 3/8" Male Thread x 3/8" Hose Shank     | 1   | \$15.00  |
| HB038-050SS | 3/8" Male Thread x 1/2" Hose Shank     | 1   | \$16.88  |
| HB050SS     | 1/2" Male Thread x 1/2" Hose Shank     | 1   | \$18.78  |
| HB050-058SS | 1/2" Male Thread x 5/8" Hose Shank     | 1   | \$21.94  |
| HB050-075SS | 1/2" Male Thread x 3/4" Hose Shank     | 1   | \$21.94  |
| HB075-050SS | 3/4" Male Thread x 1/2" Hose Shank     | 1   | \$21.94  |
| HB075SS     | 3/4" Male Thread x 3/4" Hose Shank     | 1   | \$21.94  |
| HB075-100SS | 3/4" Male Thread x 1" Hose Shank       | 1   | \$30.68  |
| HB100-075SS | 1" Male Thread x 3/4" Hose Shank       | 1   | \$30.68  |
| HB100SS     | 1" Male Thread x 1" Hose Shank         | 1   | \$30.68  |
| HB125SS     | 1 1/4" Male Thread x 1 1/4" Hose Shank | 1   | \$45.98  |
| HB150SS     | 1 1/2" Male Thread x 1 1/2" Hose Shank | 1   | \$47.66  |
| HB200SS     | 2" Male Thread x 2" Hose Shank         | 1   | \$56.31  |
| HB300SS     | 3" Male Thread x 3" Hose Shank         | 1   | \$147.56 |



## POLY FEMALE HOSE BARBS

| PART NO    | DESCRIPTION                        | QTY    | PRICE  |
|------------|------------------------------------|--------|--------|
| HBF075     | 3/4" Female Thread                 | 10/bag | \$3.29 |
| HBF075-100 | 3/4" Female Thread x 1" Hose Shank | 10/bag | \$3.29 |
| HBF100     | 1" Female Thread x 1" Hose Shank   | 10/bag | \$2.31 |



## POLY HOSE BARB TEES

| PART NO    | DESCRIPTION                      | QTY    | PRICE   |
|------------|----------------------------------|--------|---------|
| HBT025     | 1/4" Hose Barb Tee               | 10/bag | \$1.79  |
| HBT038     | 3/8" Hose Barb Tee               | 10/bag | \$1.79  |
| HBT050-038 | 1/2" x 1/2" x 3/8" Hose Barb Tee | 10/bag | \$2.32  |
| HBT050     | 1/2" Hose Barb Tee               | 10/bag | \$2.32  |
| HBT050-075 | 1/2" x 1/2" x 3/4" Hose Barb Tee | 10/bag | \$2.32  |
| HBT075-050 | 3/4" x 3/4" x 1/2" Hose Barb Tee | 10/bag | \$2.32  |
| HBT075     | 3/4" Hose Barb Tee               | 10/bag | \$2.32  |
| HBT075-100 | 3/4" x 3/4" x 1" Hose Barb Tee   | 10/bag | \$2.38  |
| HBT100-075 | 1" x 1" x 3/4" Hose Barb Tee     | 10/bag | \$2.45  |
| HBT100     | 1" Hose Barb Tee                 | 10/bag | \$2.45  |
| HBT200     | 2" Hose Barb Tee                 | 1      | \$10.20 |
| HBT300     | 3" Hose Barb Tee                 | 1      | \$28.33 |



## POLY HOSE BARB THREADED TEES

| PART NO    | DESCRIPTION                                                            | QTY | PRICE   |
|------------|------------------------------------------------------------------------|-----|---------|
| HBT100-100 | 1" Hose Barb x 1" Hose Barb x 1" Male Thread Hose Barb Tee             | 1   | \$7.41  |
| HBT150-100 | 1 1/2" Hose Barb x 1 1/2" Hose Barb x 1" Male Thread Hose Barb Tee     | 1   | \$20.45 |
| HBT150-150 | 1 1/2" Hose Barb x 1 1/2" Hose Barb x 1 1/2" Male Thread Hose Barb Tee | 1   | \$39.20 |



## POLY HOSE MENDERS

| PART NO | DESCRIPTION               | QTY    | PRICE   |
|---------|---------------------------|--------|---------|
| HM025   | 1/4" x 1/4" Hose Barb     | 10/bag | \$1.24  |
| HM038   | 3/8" x 3/8" Hose Barb     | 10/bag | \$1.24  |
| HM050   | 1/2" x 1/2" Hose Barb     | 10/bag | \$1.26  |
| HM075   | 3/4" x 3/4" Hose Barb     | 10/bag | \$1.38  |
| HM100   | 1" x 1" Hose Barb         | 10/bag | \$1.69  |
| HM125   | 1 1/4" x 1 1/4" Hose Barb | 10/bag | \$1.90  |
| HM150   | 1 1/2" x 1 1/2" Hose Barb | 10/bag | \$3.37  |
| HM200   | 2" x 2" Hose Barb         | 10/bag | \$4.24  |
| HM300   | 3" x 3" Hose Barb         | 1      | \$13.23 |



## POLY SWIVEL

| PART NO | DESCRIPTION                                    | MAX PSI | QTY | PRICE   |
|---------|------------------------------------------------|---------|-----|---------|
| SW100   | 1" Male x 1" Female Swivel                     | 75      | 1   | \$15.95 |
| SW150   | 1 1/2" Male x 1 1/2" Female Swivel             | 75      | 1   | \$19.53 |
| SW200   | 2" Male x 2" Female Swivel                     | 75      | 1   | \$21.89 |
| SW220   | 2" Full Port Male x 2" Full Port Female Swivel | 75      | 1   | \$36.45 |



## 8 STATION POLY MANIFOLD

| PART NO   | DESCRIPTION                                                  | QTY | PRICE   |
|-----------|--------------------------------------------------------------|-----|---------|
| TM075/050 | 8 Station Manifold 3/4" Inlet x 1/2" Outlet, 1/4" Gauge Port | 1   | \$32.61 |

## Recommended procedure for sealing pipe threads:

We DO NOT recommend using pipe tape. Pipe tape enlarges the outside diameter of the male thread and may cause the female thread to split. We recommend using a pipe thread sealant. Use on clean tapered threads. Apply a thick even coat on male threads using brush applicator. For pipe diameters smaller than 1 1/4" apply to male threads only. For 1 1/4" and larger sizes apply to both male and female threads. Avoid applying excessive amounts. Hand tighten joints and then torque another 1/2 to 3/4 turn until threads seal.

**RECTORSEAL® No. 21™:** This is a slow drying, soft set multi-purpose sealant designed for use where black is preferred. 8 oz. can with brush in the cap. Conforms to TT-S-1732.

**RECTORSEAL® TRU-BLU™:** This is a fast drying, flexible set thread sealant designed for high vibration environments. Teflon® has been added to enhance thread lubrication during assembly and break out. 8 oz. can with brush in the cap. Conforms to TT-S-1732.



NOTE: All recommendations as to use of parts and materials mentioned in this catalog assume that the buyer will ascertain their suitability and that all safety and health standards are met. \*DuPont Registered Trademark

NOTE: WE CAN NO LONGER SHIP THIS PRODUCT OUTSIDE OF THE UNITED STATES.



## PIPE SEALANT

| PART NO | DESCRIPTION                         | QTY    | PRICE   |
|---------|-------------------------------------|--------|---------|
| RS21    | RECTORSEAL® No. 21™ (8 oz-24/case)  | 1 can  | \$31.15 |
| RSTB    | RECTORSEAL® TRU-BLU™ (8 oz-24/case) | 1 can  | \$29.46 |
| RSTB-2  | RECTORSEAL® TRU-BLU™ w/TFE (2 oz)   | 1 tube | \$9.69  |



# Two Barrel Hardware Clamps

## FEATURES

- Perfect for tight, hard to reach spaces!
- Minimizes parts that protrude by tightening together versus tightening away from.
- Deep socket tools not required.
- 300 Stainless steel construction.



**Sold in Bags  
of 10 ONLY!  
Priced per clamp!**



| TWO BARREL HARDWARE CLAMPS |                                         |                  |            |        |         |
|----------------------------|-----------------------------------------|------------------|------------|--------|---------|
| PART NO                    | DESCRIPTION                             | MIN/MAX DIAMETER | MAX TORQUE | QTY    | PRICE   |
| BC090                      | 3/4" 300 SS Floating Bridgew/Lockwasher | 0.91"/0.98"      | 75 in-lbs  | 10/bag | \$11.62 |
| BC114                      | 1" 300 SS Floating Bridge w/Lockwasher  | 1.14"/1.22"      | 75 in-lbs  | 10/bag | \$11.74 |

# Banjo Super Clamps

## FEATURES

- Stainless steel construction.
- Stainless steel bolt with silver plated nut to prevent seizing.
- 360° sealing surface.
- Ideal for high torque applications.
- Nylon lock nut feature.
- Strong, positive connections where ordinary hose clamps fail.
- T-bolt design.
- 3 spot welds for extra strength.

**Sold in Bags  
of 10 ONLY!  
Priced per clamp!**



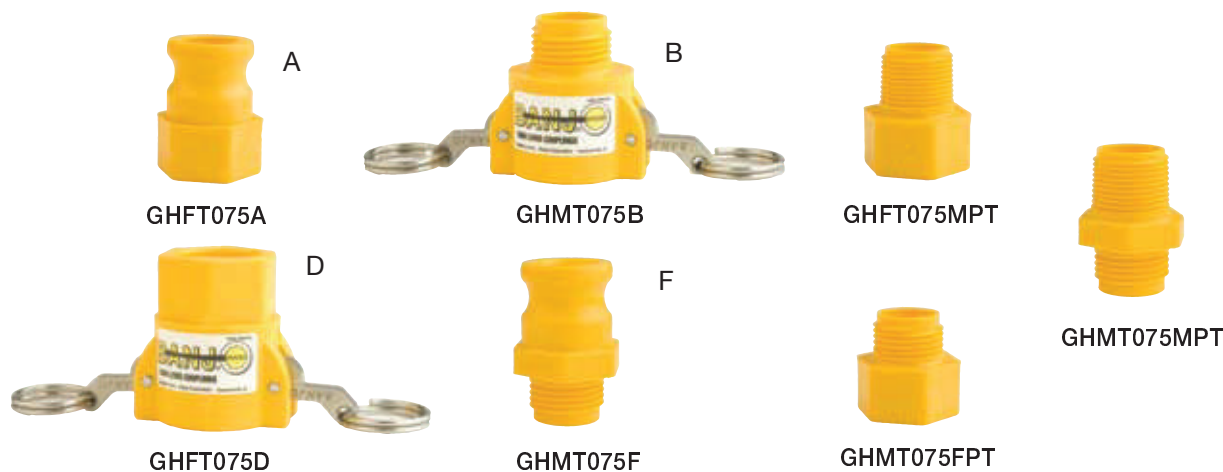
**Torque Specifications: Working Torque: 50-80 inch pounds.  
Maximum Torque: 125 inch pounds**

| BANJO SUPER CLAMPS |                          |                  |            |        |         |
|--------------------|--------------------------|------------------|------------|--------|---------|
| PART NO            | DESCRIPTION              | MIN/MAX DIAMETER | MAX TORQUE | QTY    | PRICE   |
| TC120              | 1" T-Bolt Hose Clamp     | 1.20"/1.34"      | 75 in-lbs  | 10/bag | \$11.62 |
| TC130              | 1 1/4" T-Bolt Hose Clamp | 1.30"/1.70"      | 75 in-lbs  | 10/bag | \$8.87  |
| TC150              | 1 1/2" T-Bolt Hose Clamp | 1.50"/1.75"      | 125 in-lbs | 10/bag | \$8.95  |
| TC162              | 1 1/4" T-Bolt Hose Clamp | 1.62"/1.87"      | 125 in-lbs | 10/bag | \$8.95  |
| TC181              | 1 1/2" T-Bolt Hose Clamp | 1.81"/2.06"      | 125 in-lbs | 10/bag | \$8.95  |
| TC193              | 1 1/2" T-Bolt Hose Clamp | 1.93"/2.18"      | 125 in-lbs | 10/bag | \$9.20  |
| TC206              | 2" T-Bolt Hose Clamp     | 2.06"/2.40"      | 125 in-lbs | 10/bag | \$9.38  |
| TC218              | 2" T-Bolt Hose Clamp     | 2.18"/2.50"      | 125 in-lbs | 10/bag | \$9.20  |
| TC224              | 2" T-Bolt Hose Clamp     | 2.24"/2.55"      | 125 in-lbs | 10/bag | \$9.38  |
| TC231              | 2" T-Bolt Hose Clamp     | 2.31"/2.62"      | 125 in-lbs | 10/bag | \$9.38  |
| TC250              | 2" T-Bolt Hose Clamp     | 2.50"/2.81"      | 125 in-lbs | 10/bag | \$9.38  |
| TC287              | 2" T-Bolt Hose Clamp     | 2.87"/3.18"      | 125 in-lbs | 10/bag | \$9.59  |
| TC312              | 3" T-Bolt Hose Clamp     | 3.12"/3.49"      | 125 in-lbs | 10/bag | \$9.38  |
| TC331              | 3" T-Bolt Hose Clamp     | 3.31"/3.62"      | 125 in-lbs | 10/bag | \$10.02 |
| TC343              | 3" T-Bolt Hose Clamp     | 3.43"/3.75"      | 125 in-lbs | 10/bag | \$10.02 |
| TC425              | 4" T-Bolt Hose Clamp     | 4.25"/4.56"      | 125 in-lbs | 10/bag | \$10.85 |
| TC438              | 4" T-Bolt Hose Clamp     | 4.38"/4.76"      | 125 in-lbs | 10/bag | \$18.09 |
| TC456              | 4" T-Bolt Hose Clamp     | 4.56"/4.94"      | 125 in-lbs | 10/bag | \$18.09 |

## Garden Hose Fittings

### FEATURES

- Quick and simple way to connect and disconnect your garden hose.
- Easily connects hose to spigot, sprinkler, nozzle or other hose end accessories.
- Durable, rustproof polypropylene construction.
- Never have to use pliers to tighten to prevent leaks.
- Yellow fiberglass reinforced polypropylene.
- Standard  $\frac{3}{4}$ " opening diameter.



| GARDEN HOSE FITTINGS |                                                                      |     |         |
|----------------------|----------------------------------------------------------------------|-----|---------|
| PART NO              | DESCRIPTION                                                          | QTY | PRICE   |
| GHFT075A             | $\frac{3}{4}$ " Adapter x $\frac{3}{4}$ " Garden Hose Female Thread  | 1   | \$5.64  |
| GHMT075B             | $\frac{3}{4}$ " Coupler x $\frac{3}{4}$ " Garden Hose Male Thread    | 1   | \$11.94 |
| GHFT075D             | $\frac{3}{4}$ " Coupler x $\frac{3}{4}$ " Garden Hose Female Thread  | 1   | \$11.94 |
| GHMT075F             | $\frac{3}{4}$ " Adapter x $\frac{3}{4}$ " Garden Hose Male Thread    | 1   | \$5.64  |
| GHFT075MPT           | $\frac{3}{4}$ " Male NPT x $\frac{3}{4}$ " Garden Hose Female Thread | 1   | \$2.64  |
| GHMT075FPT           | $\frac{3}{4}$ " Female NPT x $\frac{3}{4}$ " Garden Hose Male Thread | 1   | \$2.64  |
| GHMT075MPT           | $\frac{3}{4}$ " Male NPT x $\frac{3}{4}$ " Garden Hose Male Thread   | 1   | \$5.64  |

## Garden Hose Spray Nozzle

### FEATURES

- Heavy-duty machined aluminum construction stands up to hard use.
- Comfort-grip soft rubber provides a comfortable gripping texture.
- Resists dents, mars and scratches and also protects any surface that comes in contact with nozzle.
- Aluminum hose connection provides a tight fit, will not rust.
- Multiple spray pattern adjusts from a powerful jet stream to a gentle fan spray. Ideal for all your spraying needs.
- Stainless steel spray cap for precise spray patterns.

Spray nozzle patterns



| GARDEN HOSE SPRAY NOZZLE |                                          |     |         |
|--------------------------|------------------------------------------|-----|---------|
| PART NO                  | DESCRIPTION                              | QTY | PRICE   |
| GHN075                   | $\frac{3}{4}$ " Garden Hose Spray Nozzle | 1   | \$39.38 |

# Polypropylene Mini "T" Line Strainers

## FEATURES

- Heavy-duty glass reinforced polypropylene.
- Clear or black polypropylene bowl.
- Polypropylene ribbed 316 stainless steel screens.
- EPDM gaskets standard.  
FKM (viton type) available.
- Clear Bowl Max 100 P.S.I. at 70°F.  
Black Bowl Max 150 P.S.I. at 70°F.
- Convenient color coded screens for easy mesh size identification. (Refer to chart below)



**1/2" Mini T-Strainer with Clear Bowl**

| SCREENS   |           |
|-----------|-----------|
| MESH SIZE | RIB COLOR |
| 30 MESH   | YELLOW    |
| 50 MESH   | RED       |
| 80 MESH   | BLUE      |
| 100 MESH  | GREEN     |



**1/2" Mini T-Strainer with Black Bowl**

| 1/2" MINI T-STRAINER W/CLEAR BOWL |                                                   |     |         |  |
|-----------------------------------|---------------------------------------------------|-----|---------|--|
| PART NO                           | DESCRIPTION                                       | QTY | PRICE   |  |
| LSTM050-30C                       | 1/2" x 1/2" Clear Bowl Strainer w/30 Mesh Screen  | 1   | \$27.73 |  |
| LSTM050-50C                       | 1/2" x 1/2" Clear Bowl Strainer w/50 Mesh Screen  | 1   | \$27.73 |  |
| LSTM050-80C                       | 1/2" x 1/2" Clear Bowl Strainer w/80 Mesh Screen  | 1   | \$27.73 |  |
| LSTM050-100C                      | 1/2" x 1/2" Clear Bowl Strainer w/100 Mesh Screen | 1   | \$27.73 |  |

| 1/2" MINI T-STRAINER W/BLACK BOWL |                                                   |     |         |  |
|-----------------------------------|---------------------------------------------------|-----|---------|--|
| PART NO                           | DESCRIPTION                                       | QTY | PRICE   |  |
| LSTM050-30                        | 1/2" x 1/2" Black Bowl Strainer w/30 Mesh Screen  | 1   | \$20.66 |  |
| LSTM050-50                        | 1/2" x 1/2" Black Bowl Strainer w/50 Mesh Screen  | 1   | \$20.66 |  |
| LSTM050-80                        | 1/2" x 1/2" Black Bowl Strainer w/80 Mesh Screen  | 1   | \$20.66 |  |
| LSTM050-100                       | 1/2" x 1/2" Black Bowl Strainer w/100 Mesh Screen | 1   | \$20.66 |  |

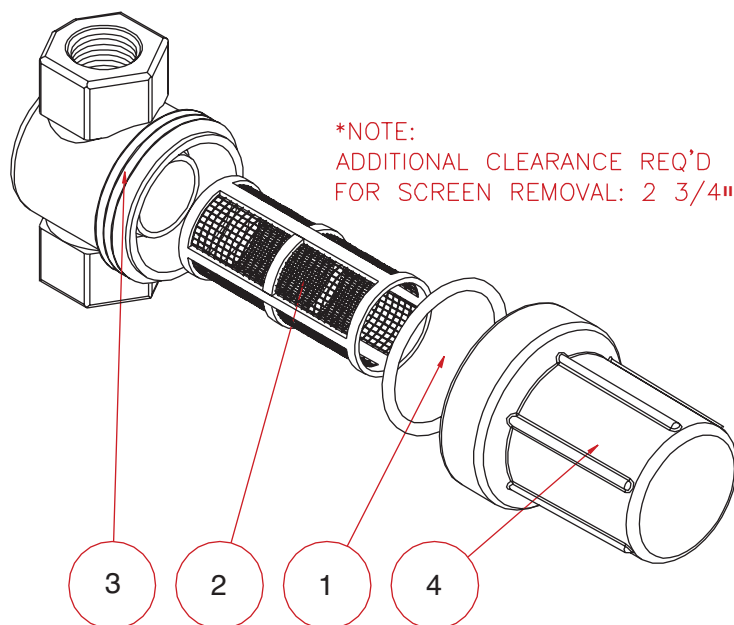
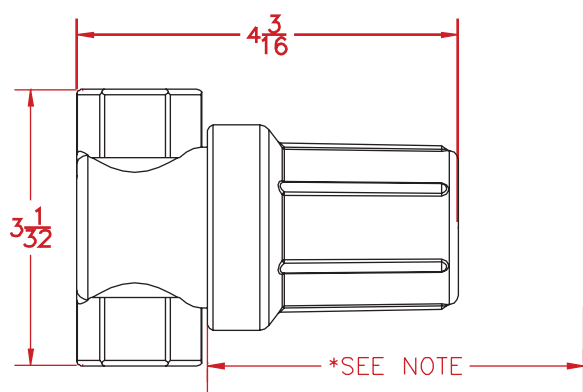
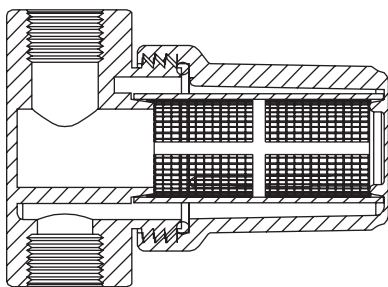
| 3/4" MINI T-STRAINER W/CLEAR BOWL |                                                   |     |         |  |
|-----------------------------------|---------------------------------------------------|-----|---------|--|
| PART NO                           | DESCRIPTION                                       | QTY | PRICE   |  |
| LSTM075-30C                       | 3/4" x 3/4" Clear Bowl Strainer w/30 Mesh Screen  | 1   | \$27.73 |  |
| LSTM075-50C                       | 3/4" x 3/4" Clear Bowl Strainer w/50 Mesh Screen  | 1   | \$27.73 |  |
| LSTM075-80C                       | 3/4" x 3/4" Clear Bowl Strainer w/80 Mesh Screen  | 1   | \$27.73 |  |
| LSTM075-100C                      | 3/4" x 3/4" Clear Bowl Strainer w/100 Mesh Screen | 1   | \$27.73 |  |

| 3/4" MINI T-STRAINER W/BLACK BOWL |                                                   |     |         |  |
|-----------------------------------|---------------------------------------------------|-----|---------|--|
| PART NO                           | DESCRIPTION                                       | QTY | PRICE   |  |
| LSTM075-30                        | 3/4" x 3/4" Black Bowl Strainer w/30 Mesh Screen  | 1   | \$20.66 |  |
| LSTM075-50                        | 3/4" x 3/4" Black Bowl Strainer w/50 Mesh Screen  | 1   | \$20.66 |  |
| LSTM075-80                        | 3/4" x 3/4" Black Bowl Strainer w/80 Mesh Screen  | 1   | \$20.66 |  |
| LSTM075-100                       | 3/4" x 3/4" Black Bowl Strainer w/100 Mesh Screen | 1   | \$20.66 |  |

| STANDARD MESHERS & DATA (FOR GENERAL USE ONLY) |         |               |         |             |
|------------------------------------------------|---------|---------------|---------|-------------|
| MESH                                           | MICRONS | WIRE DIAMETER | OPENING | % OPEN AREA |
| 30 Mesh                                        | 595     | .012          | .021    | 40.8        |
| 50 Mesh                                        | 297     | .009          | .011    | 30.3        |
| 80 Mesh                                        | 177     | .0055         | .007    | 31.4        |
| 100 Mesh                                       | 149     | .0045         | .005    | 30.3        |



**1/2" 80 Mesh**

**REPLACEMENT PARTS LSTM050-C & LSTM075-C**

| ITEM | PART NO  | DESCRIPTION             | QTY | PRICE   |
|------|----------|-------------------------|-----|---------|
| 1    | LSTM050G | EPDM Gasket             | 1   | \$3.62  |
| 1    | UV10264V | FKM (viton type) O-Ring | 1   | \$5.64  |
| 2    | LST530   | 30 Mesh Screen          | 1   | \$13.94 |
| 2    | LST550   | 50 Mesh Screen          | 1   | \$13.94 |
| 2    | LST580   | 80 Mesh Screen          | 1   | \$13.94 |
| 2    | LST5100  | 100 Mesh Screen         | 1   | \$13.94 |
| 3    | LST050H  | 1/2" Strainer Head      | 1   | \$12.73 |
| 3    | LST075H2 | 3/4" Strainer Head      | 1   | \$12.73 |
| 4    | LST050BC | Clear Bowl              | 1   | \$15.57 |

**REPLACEMENT PARTS LSTM050 & LSTM075**

| ITEM | PART NO  | DESCRIPTION             | QTY | PRICE   |
|------|----------|-------------------------|-----|---------|
| 1    | LSTM050G | EPDM Gasket             | 1   | \$3.62  |
| 1    | UV10264V | FKM (viton type) O-Ring | 1   | \$5.64  |
| 2    | LST530   | 30 Mesh Screen          | 1   | \$13.94 |
| 2    | LST550   | 50 Mesh Screen          | 1   | \$13.94 |
| 2    | LST580   | 80 Mesh Screen          | 1   | \$13.94 |
| 2    | LST5100  | 100 Mesh Screen         | 1   | \$13.94 |
| 3    | LST050H  | 1/2" Strainer Head      | 1   | \$12.73 |
| 3    | LST075H2 | 3/4" Strainer Head      | 1   | \$12.73 |
| 4    | LST050B  | Black Bowl              | 1   | \$8.50  |

# Polypropylene "T" Line Strainers

## FEATURES

- Heavy-duty glass reinforced polypropylene.
- Clean-out plug.
- 316 stainless steel reinforced screens.
- EPDM gaskets standard. FKM (viton type) available.
- 150 P.S.I. at 70°F.



3/4" And 1"



1 1/4" And 1 1/2"

| SCREENS   |           |
|-----------|-----------|
| MESH SIZE | RIB COLOR |
| 16 MESH   | GRAY      |
| 30 MESH   | YELLOW    |
| 50 MESH   | RED       |
| 80 MESH   | BLUE      |
| 100 MESH  | GREEN     |

| 3/4" T-STRAINER W/SS SCREENS |                                             |     |         |
|------------------------------|---------------------------------------------|-----|---------|
| PART NO                      | DESCRIPTION                                 | QTY | PRICE   |
| LST075-16                    | 3/4" x 3/4" T Strainer w/16 Mesh SS Screen  | 1   | \$37.07 |
| LST075-30                    | 3/4" x 3/4" T Strainer w/30 Mesh SS Screen  | 1   | \$37.07 |
| LST075-50                    | 3/4" x 3/4" T Strainer w/50 Mesh SS Screen  | 1   | \$37.07 |
| LST075-80                    | 3/4" x 3/4" T Strainer w/80 Mesh SS Screen  | 1   | \$37.07 |
| LST075-100                   | 3/4" x 3/4" T Strainer w/100 Mesh SS Screen | 1   | \$37.07 |

| 1 1/4" T-STRAINER W/SS SCREENS |                                                 |     |         |
|--------------------------------|-------------------------------------------------|-----|---------|
| PART NO                        | DESCRIPTION                                     | QTY | PRICE   |
| LST125-16                      | 1 1/4" x 1 1/4" T Strainer w/16 Mesh SS Screen  | 1   | \$73.85 |
| LST125-30                      | 1 1/4" x 1 1/4" T Strainer w/30 Mesh SS Screen  | 1   | \$73.85 |
| LST125-50                      | 1 1/4" x 1 1/4" T Strainer w/50 Mesh SS Screen  | 1   | \$73.85 |
| LST125-80                      | 1 1/4" x 1 1/4" T Strainer w/80 Mesh SS Screen  | 1   | \$73.85 |
| LST125-100                     | 1 1/4" x 1 1/4" T Strainer w/100 Mesh SS Screen | 1   | \$73.85 |

| 1" T-STRAINER W/SS SCREENS |                                         |     |         |
|----------------------------|-----------------------------------------|-----|---------|
| PART NO                    | DESCRIPTION                             | QTY | PRICE   |
| LST100-16                  | 1" x 1" T Strainer w/16 Mesh SS Screen  | 1   | \$37.07 |
| LST100-30                  | 1" x 1" T Strainer w/30 Mesh SS Screen  | 1   | \$37.07 |
| LST100-50                  | 1" x 1" T Strainer w/50 Mesh SS Screen  | 1   | \$37.07 |
| LST100-80                  | 1" x 1" T Strainer w/80 Mesh SS Screen  | 1   | \$37.07 |
| LST100-100                 | 1" x 1" T Strainer w/100 Mesh SS Screen | 1   | \$37.07 |

| 1 1/2" T-STRAINER W/SS SCREENS |                                                 |     |         |
|--------------------------------|-------------------------------------------------|-----|---------|
| PART NO                        | DESCRIPTION                                     | QTY | PRICE   |
| LST150-16                      | 1 1/2" x 1 1/2" T Strainer w/16 Mesh SS Screen  | 1   | \$73.85 |
| LST150-30                      | 1 1/2" x 1 1/2" T Strainer w/30 Mesh SS Screen  | 1   | \$73.85 |
| LST150-50                      | 1 1/2" x 1 1/2" T Strainer w/50 Mesh SS Screen  | 1   | \$73.85 |
| LST150-80                      | 1 1/2" x 1 1/2" T Strainer w/80 Mesh SS Screen  | 1   | \$73.85 |
| LST150-100                     | 1 1/2" x 1 1/2" T Strainer w/100 Mesh SS Screen | 1   | \$73.85 |



LVHB038050MTV



LV050100MTV

| POLY MICRO VALVES |                                                                |         |           |                   |     |         |
|-------------------|----------------------------------------------------------------|---------|-----------|-------------------|-----|---------|
| PART NO           | DESCRIPTION                                                    | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE   |
| LV038050MTV       | 3/8" Female x 1/2" Male NPT Micro Valve for 1/2" Drain Plug    | 300     | 3/8"x1/2" | 3/8"              | 1   | \$17.18 |
| LVHB038050MTV     | 3/8" Hose Barb x 1/2" Male NPT Micro Valve for 1/2" Drain Plug | 300     | 1/2"      | 3/8"              | 1   | \$17.18 |
| LV050100MTV       | 1/2" Female x 1" Male NPT Micro Valve for 1" Drain Plug        | 300     | 1/2"x1"   | 15/32"            | 1   | \$17.18 |
| LVHB075100MTV     | 3/4" Hose Barb x 1" Male NPT Micro Valve for 1" Drain Plug     | 300     | 1"        | 15/32"            | 1   | \$17.18 |



Add poly micro valve for easy clean out!





## REPLACEMENT PARTS LST075 &amp; LST100

| ITEM | PART NO   | DESCRIPTION                                | QTY | PRICE   |
|------|-----------|--------------------------------------------|-----|---------|
| 1    | LST100-B* | ¾" & 1" Bowl                               | 1   | \$12.64 |
| 1    | LST100BCB | ¾" & 1" Clear Bowl                         | 1   | \$23.18 |
| 2    | LST100-G  | ¾" & 1" EPDM Gasket                        | 1   | \$3.32  |
| 2    | LST100-GV | ¾" & 1" FKM (viton type) Gasket            | 1   | \$7.07  |
| 3    | 12777     | ½" Clean Out Plug                          | 1   | \$2.24  |
| 4    | UV15163   | EPDM O-Ring for Clean Out Plug             | 1   | \$0.44  |
| 4    | UV15163V  | FKM (viton type) O-Ring for Clean Out Plug | 1   | \$3.19  |
| 5    | LST116    | 16 Mesh Screen                             | 1   | \$17.50 |
| 5    | LST130    | 30 Mesh Screen                             | 1   | \$17.50 |
| 5    | LST150    | 50 Mesh Screen                             | 1   | \$17.50 |
| 5    | LST180    | 80 Mesh Screen                             | 1   | \$17.50 |
| 5    | LST1100   | 100 Mesh Screen                            | 1   | \$17.50 |
| 6    | LST075-H  | ¾" Strainer Head                           | 1   | \$11.14 |
| 6    | LST100-H  | 1" Strainer Head                           | 1   | \$11.14 |
| 7    | 13778     | EPDM O-Ring for Screen                     | 1   | \$1.86  |
| N/S  | LST075-HB | ¾" Strainer Head, Bowl & Gasket            | 1   | \$21.12 |
| N/S  | LST100-HB | 1" Strainer Head, Bowl & Gasket            | 1   | \$21.12 |

NOTE: Items marked with asterisk\* include parts 1, 3 and 4.

## REPLACEMENT PARTS LST125 &amp; LST150

| ITEM | PART NO   | DESCRIPTION                                | QTY | PRICE   |
|------|-----------|--------------------------------------------|-----|---------|
| 1    | LST150-B* | 1¼" & 1½" Bowl                             | 1   | \$20.82 |
| 1    | LST150BCB | 1¼" & 1½" Clear Bowl                       | 1   | \$30.39 |
| 2    | LST150-G  | 1¼" & 1½" EPDM Gasket                      | 1   | \$3.72  |
| 2    | LST150-GV | 1¼" & 1½" FKM (viton type) Gasket          | 1   | \$8.55  |
| 3    | LSQ200-PL | 1" Clean Out Plug                          | 1   | \$2.67  |
| 4    | LSQ200-R  | EPDM O-Ring for Clean Out Plug             | 1   | \$0.45  |
| 4    | LSQ200-RV | FKM (viton type) O-Ring for Clean Out Plug | 1   | \$1.41  |
| 5    | LST1516   | 16 Mesh Screen                             | 1   | \$28.73 |
| 5    | LST1530   | 30 Mesh Screen                             | 1   | \$28.73 |
| 5    | LST1550   | 50 Mesh Screen                             | 1   | \$28.73 |
| 5    | LST1580   | 80 Mesh Screen                             | 1   | \$28.73 |
| 5    | LST15100  | 100 Mesh Screen                            | 1   | \$28.73 |
| 6    | LST125-H  | 1¼" Strainer Head                          | 1   | \$26.76 |
| 6    | LST150-H  | 1½" Strainer Head                          | 1   | \$26.76 |
| 7    | LST034G   | EPDM O-Ring for Screen                     | 1   | \$2.77  |
| N/S  | LST125-HB | 1¼" Strainer Head, Bowl & Gasket           | 1   | \$47.62 |
| N/S  | LST150-HB | 1½" Strainer Head, Bowl & Gasket           | 1   | \$47.62 |

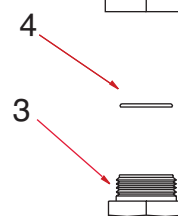
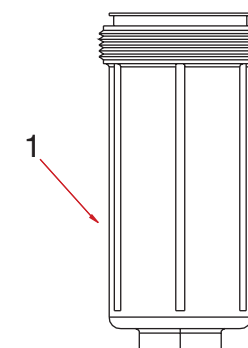
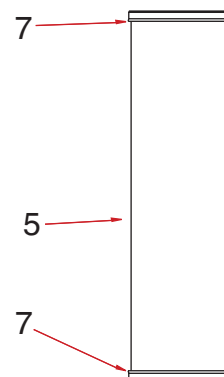
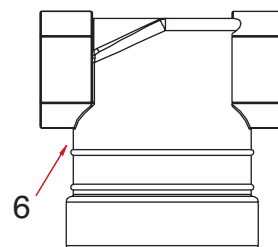
NOTE: Items marked with asterisk\* include parts 1, 3 and 4.

## STANDARD MESHES &amp; DATA (FOR GENERAL USE ONLY)

| MESH     | MICRONS | WIRE DIAMETER | OPENING | % OPEN AREA |
|----------|---------|---------------|---------|-------------|
| 16 Mesh  | 1190    | .018          | .044    | 50.7        |
| 30 Mesh  | 595     | .012          | .021    | 40.8        |
| 50 Mesh  | 297     | .009          | .011    | 30.3        |
| 80 Mesh  | 177     | .0055         | .007    | 31.4        |
| 100 Mesh | 149     | .0045         | .005    | 30.3        |



LST100BCB



LST150BCB



1" 80 Mesh

# 2" "T" Line Strainer — Poly/Stainless Combo

## FEATURES

- 316 stainless steel head.
- Glass reinforced polypropylene bowl.
- Clean-out plug.
- 316 stainless steel reinforced screens.
- FKM (viton type) gaskets.
- 150 P.S.I. at 70°F.

| 2" POLY/SS T-STRAINER W/ SCREENS |                                                            |     |          |
|----------------------------------|------------------------------------------------------------|-----|----------|
| PART NO                          | DESCRIPTION                                                | QTY | PRICE    |
| LST200-04SS                      | 2" x 2" T Strainer (SS Head & Poly Body) w/4MeshScreen     | 1   | \$641.99 |
| LST200-06SS                      | 2" x 2" T Strainer (SS Head & Poly Body) w/6MeshScreen     | 1   | \$641.99 |
| LST200-08SS                      | 2" x 2" T Strainer (SS Head & Poly Body) w/8MeshScreen     | 1   | \$641.99 |
| LST200-10SS                      | 2" x 2" T Strainer (SS Head & Poly Body) w/10 Mesh Screen  | 1   | \$641.99 |
| LST200-16SS                      | 2" x 2" T Strainer (SS Head & Poly Body) w/16 Mesh Screen  | 1   | \$641.99 |
| LST200-30SS                      | 2" x 2" T Strainer (SS Head & Poly Body) w/30 Mesh Screen  | 1   | \$641.99 |
| LST200-50SS                      | 2" x 2" T Strainer (SS Head & Poly Body) w/50 Mesh Screen  | 1   | \$641.99 |
| LST200-80SS                      | 2" x 2" T Strainer (SS Head & Poly Body) w/80 Mesh Screen  | 1   | \$641.99 |
| LST200-100SS                     | 2" x 2" T Strainer (SS Head & Poly Body) w/100 Mesh Screen | 1   | \$641.99 |



Add poly micro valve for easy clean out!

| POLY MICRO VALVES |                                                                |         |           |                   |     |         |
|-------------------|----------------------------------------------------------------|---------|-----------|-------------------|-----|---------|
| PART NO           | DESCRIPTION                                                    | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE   |
| LV038050MTV       | 3/8" Female x 1/2" Male NPT Micro Valve for 1/2" Drain Plug    | 300     | 3/8"x1/2" | 3/8"              | 1   | \$17.18 |
| LVHB038050MTV     | 3/8" Hose Barb x 1/2" Male NPT Micro Valve for 1/2" Drain Plug | 300     | 1/2"      | 3/8"              | 1   | \$17.18 |
| LV050100MTV       | 1/2" Female x 1" Male NPT Micro Valve for 1" Drain Plug        | 300     | 1/2"x1"   | 15/32"            | 1   | \$17.18 |
| LVHB075100MTV     | 3/4" Hose Barb x 1" Male NPT Micro Valve for 1" Drain Plug     | 300     | 1"        | 15/32"            | 1   | \$17.18 |

## LSQ Polypropylene Line Strainers

## FEATURES

- Precision molded in glass reinforced polypropylene.
- Cam lever configuration for easy access for cleaning and servicing.
- 3/4" plug in cam lever cap for attaching ball valve for draining or back flushing.
- Poly ribbed 316 stainless steel screen.
- EPDM lathe cut gasket.
- FKM (viton type) gaskets available.
- 75 P.S.I. maximum.



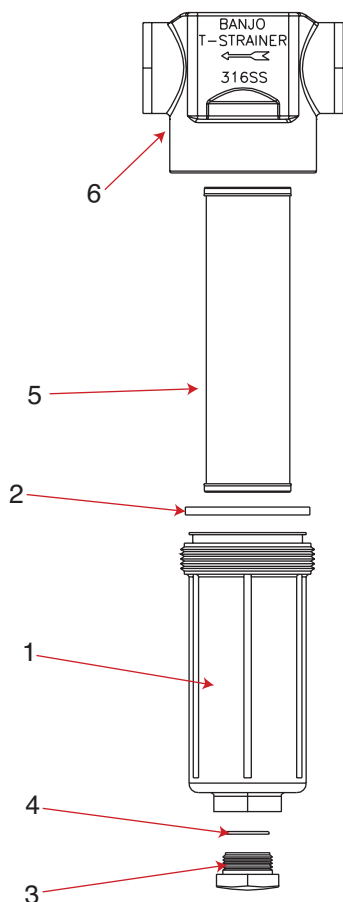
2" 80 Mesh

| SCREENS   |           |
|-----------|-----------|
| MESH SIZE | RIB COLOR |
| 6 MESH    | WHITE     |
| 12 MESH   | BLACK     |
| 20 MESH   | BEIGE     |
| 30 MESH   | YELLOW    |
| 50 MESH   | RED       |
| 80 MESH   | BLUE      |
| 120 MESH  | BLACK     |

| 1 1/2" LSQ POLY STRAINERS |                                                |       |          |
|---------------------------|------------------------------------------------|-------|----------|
| PART NO                   | DESCRIPTION                                    | QTY   | PRICE    |
| LSQ150-06                 | 1 1/2" x 1 1/2" LSQ Strainer w/6 Mesh Screen   | 6/Box | \$111.42 |
| LSQ150-12                 | 1 1/2" x 1 1/2" LSQ Strainer w/12 Mesh Screen  | 6/Box | \$111.42 |
| LSQ150-20                 | 1 1/2" x 1 1/2" LSQ Strainer w/20 Mesh Screen  | 6/Box | \$111.42 |
| LSQ150-30                 | 1 1/2" x 1 1/2" LSQ Strainer w/30 Mesh Screen  | 6/Box | \$111.42 |
| LSQ150-50                 | 1 1/2" x 1 1/2" LSQ Strainer w/50 Mesh Screen  | 6/Box | \$111.42 |
| LSQ150-80                 | 1 1/2" x 1 1/2" LSQ Strainer w/80 Mesh Screen  | 6/Box | \$111.42 |
| LSQ150-120                | 1 1/2" x 1 1/2" LSQ Strainer w/120 Mesh Screen | 6/Box | \$111.42 |

| 2" LSQ POLY STRAINERS |                                        |       |          |
|-----------------------|----------------------------------------|-------|----------|
| PART NO               | DESCRIPTION                            | QTY   | PRICE    |
| LSQ200-06             | 2" x 2" LSQ Strainer w/6 Mesh Screen   | 6/Box | \$111.42 |
| LSQ200-12             | 2" x 2" LSQ Strainer w/12 Mesh Screen  | 6/Box | \$111.42 |
| LSQ200-20             | 2" x 2" LSQ Strainer w/20 Mesh Screen  | 6/Box | \$111.42 |
| LSQ200-30             | 2" x 2" LSQ Strainer w/30 Mesh Screen  | 6/Box | \$111.42 |
| LSQ200-50             | 2" x 2" LSQ Strainer w/50 Mesh Screen  | 6/Box | \$111.42 |
| LSQ200-80             | 2" x 2" LSQ Strainer w/80 Mesh Screen  | 6/Box | \$111.42 |
| LSQ200-120            | 2" x 2" LSQ Strainer w/120 Mesh Screen | 6/Box | \$111.42 |





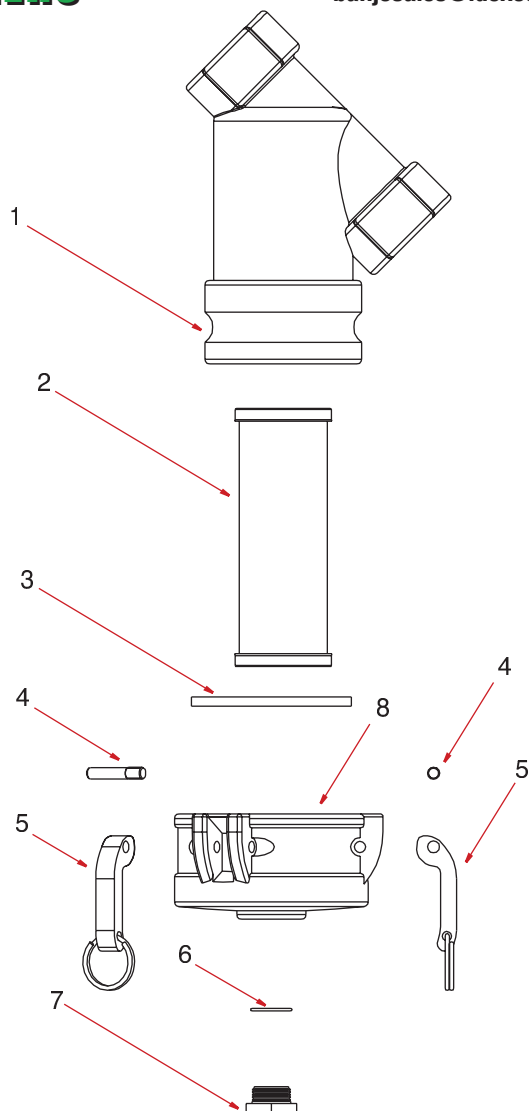
## REPLACEMENT PARTS LST200

| ITEM | PART NO     | DESCRIPTION                                | QTY | PRICE    |
|------|-------------|--------------------------------------------|-----|----------|
| 1    | LST200-B*   | 2" Poly Bowl                               | 1   | \$109.39 |
| 2    | LST200-GV   | 2" FKM (viton type) Gasket                 | 1   | \$26.01  |
| 3    | LSQ200-PL   | 1" Clean Out Plug                          | 1   | \$2.67   |
| 4    | LSQ200-RV   | FKM (viton type) O-Ring for Clean Out Plug | 1   | \$1.41   |
| 5    | LST204SS    | 4 Mesh SS Screen                           | 1   | \$56.58  |
| 5    | LST206SS    | 6 Mesh SS Screen                           | 1   | \$56.58  |
| 5    | LST208SS    | 8 Mesh SS Screen                           | 1   | \$56.58  |
| 5    | LST210SS    | 10 Mesh SS Screen                          | 1   | \$56.58  |
| 5    | LST216SS    | 16 Mesh SS Screen                          | 1   | \$56.58  |
| 5    | LST230SS    | 30 Mesh SS Screen                          | 1   | \$56.58  |
| 5    | LST250SS    | 50 Mesh SS Screen                          | 1   | \$56.58  |
| 5    | LST280SS    | 80 Mesh SS Screen                          | 1   | \$56.58  |
| 5    | LST2100SS   | 100 Mesh SS Screen                         | 1   | \$56.58  |
| 6    | LST200-HSS  | 2" SS Head                                 | 1   | \$503.79 |
| N/S  | LST200-HBSS | 2" SS Head, Poly Bowl & Gasket             | 1   | \$583.11 |

**NOTE:** Items marked with asterisk\* include parts 1, 3 and 4.

## STANDARD MESHES &amp; DATA (FOR GENERAL USE ONLY)

| MESH     | MICRONS | WIRE DIAMETER | OPENING | % OPEN AREA |
|----------|---------|---------------|---------|-------------|
| 6 Mesh   | 3360    | .035          | .132    | 62.7        |
| 8 Mesh   | 2380    | .028          | .097    | 60.2        |
| 10 Mesh  | 2000    | .025          | .075    | 56.3        |
| 12 Mesh  | 1680    | .023          | .060    | 51.8        |
| 16 Mesh  | 1190    | .018          | .044    | 50.7        |
| 20 Mesh  | 841     | .016          | .034    | 46.2        |
| 30 Mesh  | 595     | .012          | .021    | 40.8        |
| 50 Mesh  | 297     | .009          | .011    | 30.3        |
| 80 Mesh  | 177     | .0055         | .007    | 31.4        |
| 100 Mesh | 149     | .0045         | .005    | 30.3        |
| 120 Mesh | 125     | .0037         | .0046   | 30.5        |



## REPLACEMENT PARTS LSQ150 &amp; LSQ200

| ITEM | PART NO   | DESCRIPTION                                | QTY | PRICE   |
|------|-----------|--------------------------------------------|-----|---------|
| 1    | LSQ150-B  | 1½" LSQ Body                               | 1   | \$50.15 |
| 1    | LSQ200-B  | 2" LSQ Body                                | 1   | \$50.15 |
| 2    | LS206     | 6 Mesh Screen                              | 1   | \$42.48 |
| 2    | LS212     | 12 Mesh Screen                             | 1   | \$42.48 |
| 2    | LS220     | 20 Mesh Screen                             | 1   | \$42.48 |
| 2    | LS230     | 30 Mesh Screen                             | 1   | \$42.48 |
| 2    | LS250     | 50 Mesh Screen                             | 1   | \$42.48 |
| 2    | LS280     | 80 Mesh Screen                             | 1   | \$42.48 |
| 2    | LS2120    | 120 Mesh Screen                            | 1   | \$42.48 |
| 2    | LS2150    | 150 Mesh Screen                            | 1   | \$47.22 |
| 3    | LSQ200-G  | 2" EPDM Gasket                             | 1   | \$7.43  |
| 3    | LSQ200-GV | 2" FKM (viton type) Gasket                 | 1   | \$46.78 |
| 4    | 300P      | SS Cam Pin                                 | 1   | \$1.97  |
| 5    | 300K      | 3" SS Cam Arm w/Ring                       | 1   | \$6.28  |
| 6    | LSQ200R1  | EPDM for Clean Out Plug                    | 1   | \$0.45  |
| 6    | 13778V    | FKM (viton type) O-Ring for Clean Out Plug | 1   | \$2.60  |
| 7    | PLUG075S  | ¾" Clean Out Plug                          | 1   | \$3.12  |
| 8    | LSQ200-C* | 2" Cap                                     | 1   | \$62.43 |

**NOTE:** Items marked with asterisk\* include parts 3, 4, 5, 6 and 7.

# 1/2"-1 1/4" Polypropylene "Y" Strainers

## FEATURES

- Precision molded construction.
- Corrosion resistant.
- Lightweight.
- Fiberglass reinforced.
- Easy grip end cap.
- Poly ribbed 316 stainless steel screen.
- EPDM gaskets FKM (viton type) available.
- Heavy duty end cap threads.
- 1/2"-1 1/4" 150 P.S.I. Maximum.
- Clean-out plug.
- Female NPT x Female NPT.



### 1/2" Y-STRAINER W/POLY RIBBED SS SCREENS

| PART NO  | DESCRIPTION                                | QTY | PRICE   |
|----------|--------------------------------------------|-----|---------|
| LS050-20 | 1/2" x 1/2" Y Strainer w/20 Mesh SS Screen | 1   | \$35.06 |
| LS050-40 | 1/2" x 1/2" Y Strainer w/40 Mesh SS Screen | 1   | \$35.06 |
| LS050-80 | 1/2" x 1/2" Y Strainer w/80 Mesh SS Screen | 1   | \$35.06 |

### 1" Y-STRAINER W/ POLY RIBBED SS SCREENS

| PART NO  | DESCRIPTION                            | QTY | PRICE   |
|----------|----------------------------------------|-----|---------|
| LS100-20 | 1" x 1" Y Strainer w/20 Mesh SS Screen | 1   | \$35.06 |
| LS100-40 | 1" x 1" Y Strainer w/40 Mesh SS Screen | 1   | \$35.06 |
| LS100-80 | 1" x 1" Y Strainer w/80 Mesh SS Screen | 1   | \$38.49 |

### 3/4" Y-STRAINER W/ POLY RIBBED SS SCREENS

| PART NO  | DESCRIPTION                                | QTY | PRICE   |
|----------|--------------------------------------------|-----|---------|
| LS075-20 | 3/4" x 3/4" Y Strainer w/20 Mesh SS Screen | 1   | \$35.06 |
| LS075-40 | 3/4" x 3/4" Y Strainer w/40 Mesh SS Screen | 1   | \$35.06 |
| LS075-80 | 3/4" x 3/4" Y Strainer w/80 Mesh SS Screen | 1   | \$35.06 |

### 1 1/4" Y-STRAINER W/ POLY RIBBED SS SCREENS

| PART NO  | DESCRIPTION                                    | QTY | PRICE   |
|----------|------------------------------------------------|-----|---------|
| LS125-20 | 1 1/4" x 1 1/4" Y Strainer w/20 Mesh SS Screen | 1   | \$35.06 |
| LS125-40 | 1 1/4" x 1 1/4" Y Strainer w/40 Mesh SS Screen | 1   | \$35.06 |
| LS125-80 | 1 1/4" x 1 1/4" Y Strainer w/80 Mesh SS Screen | 1   | \$38.49 |

## POLY MICRO VALVES

| PART NO       | DESCRIPTION                                                    | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE   |
|---------------|----------------------------------------------------------------|---------|-----------|-------------------|-----|---------|
| LV038050MTV   | 3/8" Female x 1/2" Male NPT Micro Valve for 1/2" Drain Plug    | 300     | 3/8"x1/2" | 3/8"              | 1   | \$17.18 |
| LVHB038050MTV | 3/8" Hose Barb x 1/2" Male NPT Micro Valve for 1/2" Drain Plug | 300     | 1/2"      | 3/8"              | 1   | \$17.18 |
| LV050100MTV   | 1/2" Female x 1" Male NPT Micro Valve for 1" Drain Plug        | 300     | 1/2"x1"   | 15/32"            | 1   | \$17.18 |
| LVHB075100MTV | 3/4" Hose Barb x 1" Male NPT Micro Valve for 1" Drain Plug     | 300     | 1"        | 15/32"            | 1   | \$17.18 |



Add poly micro valve for easy clean out!



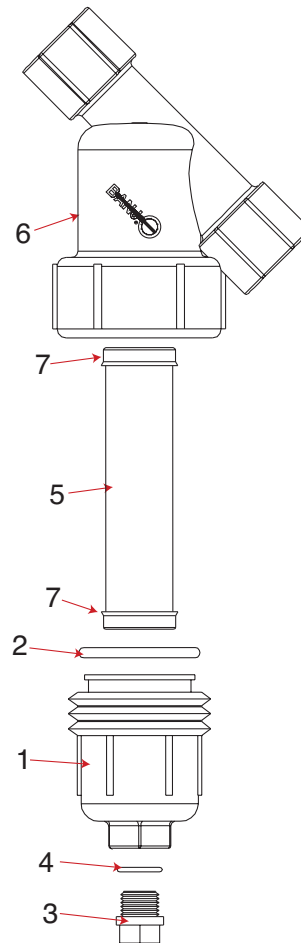
**REPLACEMENT PARTS 1/2"-3/4" Y STRAINERS**

| ITEM | PART NO   | DESCRIPTION                          | QTY | PRICE   |
|------|-----------|--------------------------------------|-----|---------|
| 1    | LS075-C1* | 1/2"-3/4" End Cap                    | 1   | \$9.45  |
| 2    | LS075-G   | 1/2"-3/4" O-Ring                     | 1   | \$2.83  |
| 2    | LS075-GV  | 1/2"-3/4" FKM (viton type) Gasket    | 1   | \$5.04  |
| 3    | 12723     | 1/4" Drain Plug (Fits 1/2"-3/4")     | 1   | \$1.93  |
| 4    | 12724     | 1/2"-3/4" EPDM O-Ring for Drain Plug | 1   | \$0.42  |
| 5    | LS720     | 1/2"-3/4" 20 Mesh Screen             | 1   | \$20.75 |
| 5    | LS740     | 1/2"-3/4" 40 Mesh Screen             | 1   | \$20.75 |
| 5    | LS780     | 1/2"-3/4" 80 Mesh Screen             | 1   | \$20.75 |
| 6    | LS050-B   | 1/2" Y Body                          | 1   | \$7.73  |
| 6    | LS075-B   | 3/4" Y Body                          | 1   | \$7.73  |
| N/A  | LS050B/C1 | 1/2" Y Body, Cap & Gasket            | 1   | \$16.12 |
| N/A  | LS075B/C1 | 3/4" Y Body, Cap & Gasket            | 1   | \$16.12 |

**REPLACEMENT PARTS 1"-1 1/4" Y STRAINERS**

| ITEM | PART NO   | DESCRIPTION                                      | QTY | PRICE   |
|------|-----------|--------------------------------------------------|-----|---------|
| 1    | LS100-C1* | 1"-1 1/4" End Cap                                | 1   | \$13.38 |
| 2    | LS100-G   | 1"-1 1/4" O-Ring                                 | 1   | \$3.32  |
| 2    | LS100-GV  | 1"-1 1/4" FKM (viton type) Gasket                | 1   | \$6.70  |
| 3    | 12777     | 1/2" Drain Plug (Fits 1"-1 1/4")                 | 1   | \$2.24  |
| 4    | UV15163   | 1"-1 1/4" EPDM O-Ring for Drain Plug             | 1   | \$0.44  |
| 4    | UV15163V  | 1"-1 1/4" FKM (viton type) O-Ring for Drain Plug | 1   | \$3.19  |
| 5    | LS120     | 1"-1 1/4" 20 Mesh Screen                         | 1   | \$20.75 |
| 5    | LS140     | 1"-1 1/4" 40 Mesh Screen                         | 1   | \$20.75 |
| 5    | LS180     | 1"-1 1/4" 80 Mesh Screen                         | 1   | \$20.75 |
| 6    | LS100-B   | 1" Y Body                                        | 1   | \$24.08 |
| 6    | LS125-B   | 1 1/4" Y Body                                    | 1   | \$24.08 |
| 7    | LS125G    | 1"-1 1/4" EPDM O-Ring                            | 1   | \$2.32  |
| N/A  | LS100B/C1 | 1" Y Body, Cap & Gasket                          | 1   | \$16.12 |
| N/A  | LS125B/C1 | 1 1/4" Y Body, Cap & Gasket                      | 1   | \$16.12 |

**NOTE:** Items marked with asterisk\* come with parts 1, 3, and 4.

**SCREENS**

| MESH SIZE | RIB COLOR |
|-----------|-----------|
| 6 MESH    | WHITE     |
| 12 MESH   | BLACK     |
| 20 MESH   | BEIGE     |
| 30 MESH   | YELLOW    |
| 40 MESH   | BROWN     |
| 50 MESH   | RED       |
| 80 MESH   | BLUE      |
| 100 MESH  | GREEN     |
| 120 MESH  | BLACK     |



1" 80 Mesh

**STANDARD MESHES & DATA (FOR GENERAL USE ONLY)**

| MESH     | MICRONS | WIRE DIAMETER | OPENING | % OPEN AREA |
|----------|---------|---------------|---------|-------------|
| 6 Mesh   | 3360    | .035          | .132    | 62.7        |
| 8 Mesh   | 2380    | .028          | .097    | 60.2        |
| 12 Mesh  | 1680    | .023          | .060    | 51.8        |
| 16 Mesh  | 1190    | .018          | .044    | 50.7        |
| 20 Mesh  | 841     | .016          | .034    | 46.2        |
| 30 Mesh  | 595     | .012          | .021    | 40.8        |
| 40 Mesh  | 400     | .012          | .021    | 36.0        |
| 50 Mesh  | 297     | .009          | .011    | 30.3        |
| 80 Mesh  | 177     | .0055         | .007    | 31.4        |
| 100 Mesh | 149     | .0045         | .005    | 30.3        |
| 120 Mesh | 125     | .0037         | .0046   | 30.5        |



# 1½"-2" Polypropylene "Y" Strainers

## FEATURES

- Precision molded construction.
- Corrosion resistant.
- Lightweight.
- Fiberglass reinforced.
- Easy grip end cap.
- Poly ribbed 316 stainless steel screen.
- EPDM gaskets FKM (viton type) available.
- Heavy duty end cap threads.
- 1½" - 2" 150 P.S.I. Maximum.
- Clean-out plug.
- Female NPT x Female NPT.



### 1½" Y-STRAINER W/ALL POLY SCREENS

| PART NO   | DESCRIPTION                                    | QTY | PRICE   |
|-----------|------------------------------------------------|-----|---------|
| LS150-12P | 1½" x 1½" Y Strainer w/12 Mesh All Poly Screen | 12  | \$77.15 |
| LS150-20P | 1½" x 1½" Y Strainer w/20 Mesh All Poly Screen | 12  | \$77.15 |
| LS150-50P | 1½" x 1½" Y Strainer w/50 Mesh All Poly Screen | 12  | \$77.15 |

### 1½" Y-STRAINER W/POLY RIBBED SS SCREENS

| PART NO   | DESCRIPTION                               | QTY | PRICE   |
|-----------|-------------------------------------------|-----|---------|
| LS150-06  | 1½" x 1½" Y Strainer w/6 Mesh SS Screen   | 12  | \$77.15 |
| LS150-12  | 1½" x 1½" Y Strainer w/12 Mesh SS Screen  | 12  | \$77.15 |
| LS150-20  | 1½" x 1½" Y Strainer w/20 Mesh SS Screen  | 12  | \$77.15 |
| LS150-30  | 1½" x 1½" Y Strainer w/30 Mesh SS Screen  | 12  | \$77.15 |
| LS150-50  | 1½" x 1½" Y Strainer w/50 Mesh SS Screen  | 12  | \$77.15 |
| LS150-80  | 1½" x 1½" Y Strainer w/80 Mesh SS Screen  | 12  | \$77.15 |
| LS150-120 | 1½" x 1½" Y Strainer w/120 Mesh SS Screen | 12  | \$77.15 |

### 2" Y-STRAINER W/ALL POLY SCREENS

| PART NO   | DESCRIPTION                                  | QTY | PRICE   |
|-----------|----------------------------------------------|-----|---------|
| LS200-12P | 2" x 2" Y Strainer w/12 Mesh All Poly Screen | 12  | \$77.15 |
| LS200-20P | 2" x 2" Y Strainer w/20 Mesh All Poly Screen | 12  | \$77.15 |
| LS200-50P | 2" x 2" Y Strainer w/50 Mesh All Poly Screen | 12  | \$77.15 |

### 2" Y-STRAINER W/POLY RIBBED SS SCREENS

| PART NO   | DESCRIPTION                                         | QTY | PRICE   |
|-----------|-----------------------------------------------------|-----|---------|
| LS200-06  | 2" x 2" Y Strainer w/6 Mesh Poly Ribbed SS Screen   | 12  | \$77.15 |
| LS200-12  | 2" x 2" Y Strainer w/12 Mesh Poly Ribbed SS Screen  | 12  | \$77.15 |
| LS200-20  | 2" x 2" Y Strainer w/20 Mesh Poly Ribbed SS Screen  | 12  | \$77.15 |
| LS200-30  | 2" x 2" Y Strainer w/30 Mesh Poly Ribbed SS Screen  | 12  | \$77.15 |
| LS200-50  | 2" x 2" Y Strainer w/50 Mesh Poly Ribbed SS Screen  | 12  | \$77.15 |
| LS200-80  | 2" x 2" Y Strainer w/80 Mesh Poly Ribbed SS Screen  | 12  | \$77.15 |
| LS200-100 | 2" x 2" Y Strainer w/100 Mesh Poly Ribbed SS Screen | 12  | \$77.15 |
| LS200-120 | 2" x 2" Y Strainer w/120 Mesh Poly Ribbed SS Screen | 12  | \$77.15 |

### POLY MICRO VALVES

| PART NO       | DESCRIPTION                                              | MAX PSI | PIPE SIZE | OPENING THRU BALL | QTY | PRICE   |
|---------------|----------------------------------------------------------|---------|-----------|-------------------|-----|---------|
| LV038050MTV   | ¾" Female x ½" Male NPT Micro Valve for ½" Drain Plug    | 300     | ¾"x1½"    | ¾"                | 1   | \$17.18 |
| LVHB038050MTV | ¾" Hose Barb x ½" Male NPT Micro Valve for ½" Drain Plug | 300     | 1½"       | ¾"                | 1   | \$17.18 |
| LV050100MTV   | 1½" Female x 1" Male NPT Micro Valve for 1" Drain Plug   | 300     | 1½"x1"    | 1½/32"            | 1   | \$17.18 |
| LVHB075100MTV | ¾" Hose Barb x 1" Male NPT Micro Valve for 1" Drain Plug | 300     | 1"        | 1½/32"            | 1   | \$17.18 |



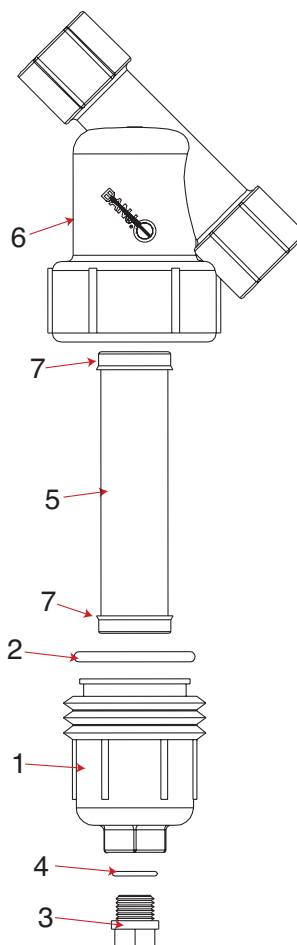
Add poly micro valve for easy clean out!



**REPLACEMENT PARTS 1½"-2" Y STRAINERS**

| ITEM | PART NO   | DESCRIPTION                                   | QTY | PRICE   |
|------|-----------|-----------------------------------------------|-----|---------|
| 1    | LS150-C*  | 1½" - 2" End Cap                              | 1   | \$21.18 |
| 2    | LS150-G   | 1½"-2" O-Ring                                 | 1   | \$3.32  |
| 2    | LS150-GV  | 1½"-2" FKM (viton type) Gasket                | 1   | \$11.14 |
| 3    | LSQ200-PL | 1" Drain Plug (Fits 1½" - 2")                 | 1   | \$2.67  |
| 4    | LSQ200-R  | 1½"-2" EPDM O-Ring for Drain Plug             | 1   | \$0.45  |
| 4    | LSQ200-RV | 1½"-2" FKM (viton type) O-Ring for Drain Plug | 1   | \$1.41  |
| 5    | LS206     | 1½"-2" 6 Mesh Screen                          | 1   | \$42.48 |
| 5    | LS212     | 1½"-2" 12 Mesh Screen                         | 1   | \$42.48 |
| 5    | LS220     | 1½"-2" 20 Mesh Screen                         | 1   | \$42.48 |
| 5    | LS230     | 1½"-2" 30 Mesh Screen                         | 1   | \$42.48 |
| 5    | LS250     | 1½"-2" 50 Mesh Screen                         | 1   | \$42.48 |
| 5    | LS280     | 1½"-2" 80 Mesh Screen                         | 1   | \$42.48 |
| 5    | LS2100    | 1½"-2" 100 Mesh Screen                        | 1   | \$42.48 |
| 5    | LS2120    | 1½"-2" 120 Mesh Screen                        | 1   | \$42.48 |
| 5    | LS2150    | 1½"-2" 120 Mesh Screen                        | 1   | \$47.22 |
| 5    | LS212P    | 1½"-2" 12 Mesh All Poly Screen                | 1   | \$42.48 |
| 5    | LS220P    | 1½"-2" 20 Mesh All Poly Screen                | 1   | \$42.48 |
| 5    | LS250P    | 1½"-2" 50 Mesh All Poly Screen                | 1   | \$42.48 |
| 6    | LS150-B   | 1½" Y Body                                    | 1   | \$37.88 |
| 6    | LS200-B   | 2" Y Body                                     | 1   | \$37.88 |
| 7    | LS141G    | 1½"-2" EPDM O-Ring                            | 1   | \$3.37  |
| N/A  | LS150B/C  | 1½" Y Body, Cap & Gasket                      | 1   | \$38.34 |
| N/A  | LS200B/C  | 2" Y Body, Cap & Gasket                       | 1   | \$38.34 |

**NOTE:** Items marked with asterisk\* come with parts 1, 3, and 4.

**SCREENS**

| MESH SIZE | RIB COLOR |
|-----------|-----------|
| 6 MESH    | WHITE     |
| 12 MESH   | BLACK     |
| 20 MESH   | BEIGE     |
| 30 MESH   | YELLOW    |
| 40 MESH   | BROWN     |
| 50 MESH   | RED       |
| 80 MESH   | BLUE      |
| 100 MESH  | GREEN     |
| 120 MESH  | BLACK     |



1" 80 Mesh

**STANDARD MESHES & DATA (FOR GENERAL USE ONLY)**

| MESH     | MICRONS | WIRE DIAMETER | OPENING | % OPEN AREA |
|----------|---------|---------------|---------|-------------|
| 6 Mesh   | 3360    | .035          | .132    | 62.7        |
| 8 Mesh   | 2380    | .028          | .097    | 60.2        |
| 12 Mesh  | 1680    | .023          | .060    | 51.8        |
| 16 Mesh  | 1190    | .018          | .044    | 50.7        |
| 20 Mesh  | 841     | .016          | .034    | 46.2        |
| 30 Mesh  | 595     | .012          | .021    | 40.8        |
| 40 Mesh  | 400     | .012          | .021    | 36.0        |
| 50 Mesh  | 297     | .009          | .011    | 30.3        |
| 80 Mesh  | 177     | .0055         | .007    | 31.4        |
| 100 Mesh | 149     | .0045         | .005    | 30.3        |
| 120 Mesh | 125     | .0037         | .0046   | 30.5        |

# 3" "Y" Strainers

## FEATURES

- Lightweight.
- High volume.
- Constructed of glass filled polypropylene.
- ½" drain plug in bottom of cap.
- Reinforced 304 stainless steel screen.
- 3" female NPT threads.
- 75 P.S.I. maximum.\*

*Please see page 126 for poly micro valve clean out!*



## FEATURES

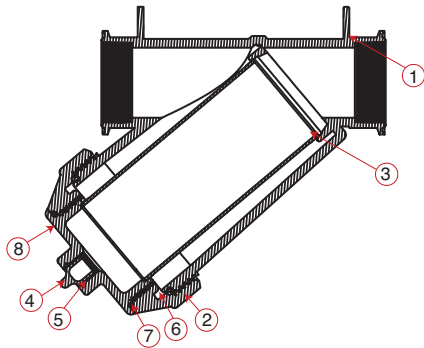
- EPDM gaskets standard FKM (viton type) available.
- Corrosion resistant.
- 200 P.S.I. maximum.
- Clean-out plug.
- 316 Stainless steel screens sold separately.



### 3" Y-STRAINERS

| PART NO   | DESCRIPTION                         | QTY   | PRICE    |
|-----------|-------------------------------------|-------|----------|
| LSM300-04 | 3" x 3" Y Strainer w/4 Mesh Screen  | 2/Box | \$514.19 |
| LSM300-08 | 3" x 3" Y Strainer w/8 Mesh Screen  | 2/Box | \$514.19 |
| LSM300-12 | 3" x 3" Y Strainer w/12 Mesh Screen | 2/Box | \$514.19 |
| LSM300-20 | 3" x 3" Y Strainer w/20 Mesh Screen | 2/Box | \$514.19 |
| LSM300-50 | 3" x 3" Y Strainer w/50 Mesh Screen | 2/Box | \$514.19 |

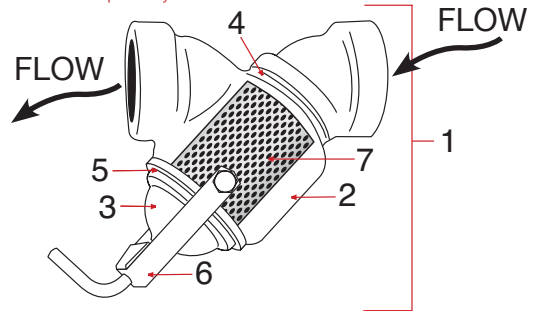
**\*WARNING: 3" Polypropylene "Y" Strainer to be used on suction side or non-pressure side in all applications.**



### 3" SS Y-STRAINERS

| PART NO   | DESCRIPTION                  | QTY | PRICE      |
|-----------|------------------------------|-----|------------|
| LSS300-BC | 3" SS Body, Cap & Gaskets    | 1   | \$1,110.82 |
| LSS300-B  | 3" SS Body                   | 1   | \$728.18   |
| LSS300-C  | 3" SS Cap                    | 1   | \$203.00   |
| LSS300-S  | EPDM Screen Seal             | 2   | \$7.07     |
| LSS300-SV | FKM (viton type) Screen Seal | 2   | \$27.11    |
| LSS300-G  | EPDM Cap Gasket              | 1   | \$7.81     |
| LSS300-GV | FKM (viton type) Cap Gasket  | 1   | \$27.11    |
| LSS300-H  | Handle/Clamp Assembly        | 1   | \$73.55    |

NOTE: Screens Sold Separately.



### REPLACEMENT PARTS LSM300

| ITEM | PART NO    | DESCRIPTION                         | QTY | PRICE    |
|------|------------|-------------------------------------|-----|----------|
| 1    | MLS300B1   | 3" Poly Body                        | 1   | \$318.25 |
| 2    | MLS300CAP  | 3" Cap                              | 1   | \$155.60 |
| 3    | LS304      | 4 Mesh Screen                       | 1   | \$131.85 |
| 3    | LS308      | 8 Mesh Screen                       | 1   | \$131.85 |
| 3    | LS312      | 12 Mesh Screen                      | 1   | \$131.85 |
| 3    | LS320      | 20 Mesh Screen                      | 1   | \$131.85 |
| 3    | LS350      | 50 Mesh Screen                      | 1   | \$131.85 |
| 4    | 13777      | ¾" Clean Out Plug                   | 1   | \$2.95   |
| 5    | 13778      | EPDM O-Ring Clean Out Plug          | 1   | \$1.86   |
| 6    | MLS300G    | EPDM Cap Gasket                     | 1   | \$6.10   |
| 6    | MLS300GV   | FKM (viton type) Cap Gasket         | 1   | \$31.91  |
| 7    | MLS300ECG  | EPDM End Cap Gasket                 | 1   | \$12.26  |
| 7    | MLS300ECGV | FKM (viton type) Cap Gasket         | 1   | \$23.51  |
| 8    | LS300EC    | End Cap Only (Plug Sold Separately) | 1   | \$29.72  |

### REPLACEMENT PARTS LSS300

| ITEM | PART NO   | DESCRIPTION                  | QTY | PRICE      |
|------|-----------|------------------------------|-----|------------|
| 1    | LSS300-BC | 3" SS Body, Cap & Gaskets    | 1   | \$1,110.82 |
| 2    | LSS300-B  | 3" SS Body                   | 1   | \$728.18   |
| 3    | LSS300-C  | 3" SS Cap                    | 1   | \$203.00   |
| 4    | LSS300-S  | EPDM Screen Seal             | 2   | \$7.07     |
| 4    | LSS300-SV | FKM (viton type) Screen Seal | 2   | \$27.11    |
| 5    | LSS300-G  | EPDM Cap Gasket              | 1   | \$7.81     |
| 5    | LSS300-GV | FKM (viton type) Cap Gasket  | 1   | \$27.11    |
| 6    | LSS300-H  | Handle/Clamp Assembly        | 1   | \$73.55    |
| 7    | LSS306    | 6 Mesh SS Screen             | 1   | \$93.49    |
| 7    | LSS308    | 8 Mesh SS Screen             | 1   | \$93.49    |
| 7    | LSS312    | 12 Mesh SS Screen            | 1   | \$93.49    |
| 7    | LSS320    | 20 Mesh SS Screen            | 1   | \$93.49    |
| 7    | LSS330    | 30 Mesh SS Screen            | 1   | \$93.49    |
| 7    | LSS350    | 50 Mesh SS Screen            | 1   | \$93.49    |



# Banjo Pump Index

## 2" Poly Pumps: Pages 130-139

Includes:  
Gas Engine Pumps  
Pump Only/Bearing Pedestal  
Electric Motor Driven  
Hydraulic Pumps



## 1½"-2" CI Pumps: Pages 158-165

Includes:  
Gas Engine Pumps  
Pump Only/Bearing Pedestal  
Electric Motor Driven  
Hydraulic Pumps



## 3" Poly Pumps: Pages 140-143

Includes:  
Gas Engine Pumps  
Pump Only  
Bearing Pedestal Pumps  
Hydraulic Pumps



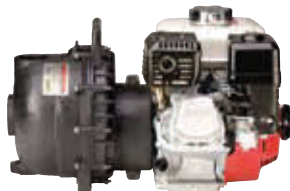
## 3" CI Pumps: Pages 166-171

Includes:  
Gas Engine Pumps  
Pump Only/Bearing Pedestal  
Electric Motor Driven  
Hydraulic Pumps



## 2" & 3" Poly Wet Seal Pumps: Pages 144-147

Includes:  
Gas Engine Pumps  
Pump Only/Bearing Pedestal



## 2" & 3" Cast Iron Wet Seal Pumps: Pages 172-175 2" & 3" Manifold CI Wet Seal Pumps: Pages 176-183

Includes:  
Gas Engine Pumps  
Pump Only/Bearing Pedestal



## 222 Series Pumps: Pages 148-153

Includes:  
Gas Engine Pumps  
Pump Only  
Bearing Pedestal Pumps  
Hydraulic Pumps



## 2" & 3" SS Pumps: Pages 184-192

Includes:  
Gas Engine Pumps  
Pump Only/Bearing Pedestal  
Electric Motor Driven  
Hydraulic Pumps



## 333 Series Pumps: Pages 154-155

Includes:  
Gas Engine Pumps  
Bearing Pedestal Pumps



## 444 Series Pumps: Pages 156-157

Includes:  
Gas Engine Pumps  
Bearing Pedestal Pumps



### For Engine Warranty Service Contact:

Briggs and Stratton: (414) 259-5262 or  
[www.briggsandstratton.com](http://www.briggsandstratton.com)

Honda: (800) 426-7701 or [www.honda.com](http://www.honda.com)



# 1½" & 2" Polypropylene Self-Priming Centrifugal Pumps

## MOTOR FEATURES

- Cast iron cylinder sleeve.
- Heavy duty flywheel.
- Overhead valve.
- High oil fill
- Oil Guard® low oil sensor.
- Breather through air cleaner.

## PUMP FEATURES

- Precision molded construction.
- Lightweight.
- Corrosion resistant.
- Superior design.
- Low maintenance.
- EPDM Standard, FKM (viton type) available.

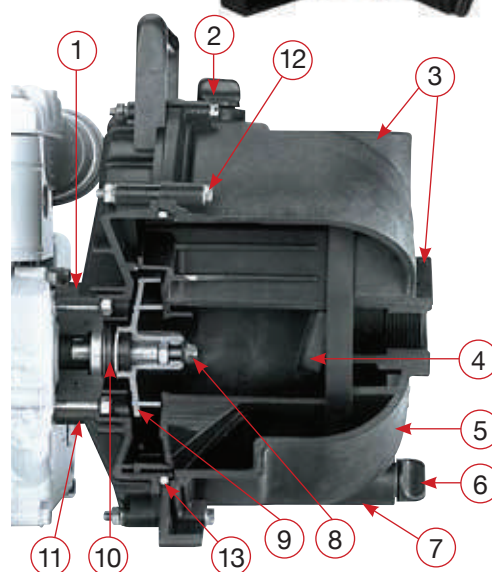
**CAUTION-WARNING:** Please do not run pump dry, restrict or reduce port sizes, or dead head pump. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**

**NOTE:** Engine warranty service available at authorized Briggs & Stratton and Honda dealers.



**200P6PRO  
190 GPM**



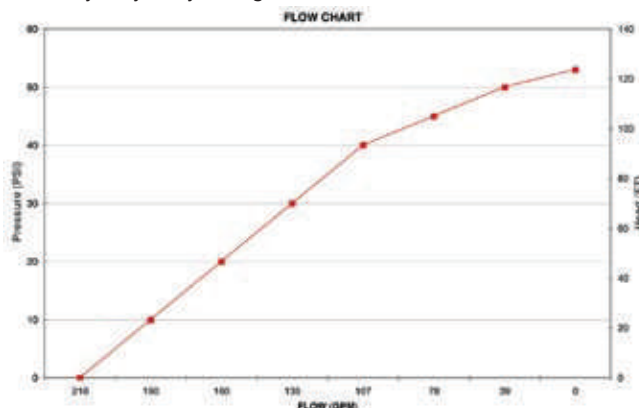
1. Maximum engine protection - pump end is separated from engine
2. Large prime plug thumb screw
3. 1½" & 2" ports
4. Check valve
5. "V" shaped body for quicker priming
6. Large drain plug thumb screw
7. High strength glass-filled polypropylene construction
8. Impeller bolt easily removable
9. High performance precision molded impellers
10. Mechanical shaft seal (available in 3 materials)
11. Large weep holes
12. All stainless steel hardware
13. Heavy duty body O-ring

## 1½" POLY PUMP W/GAS ENGINE

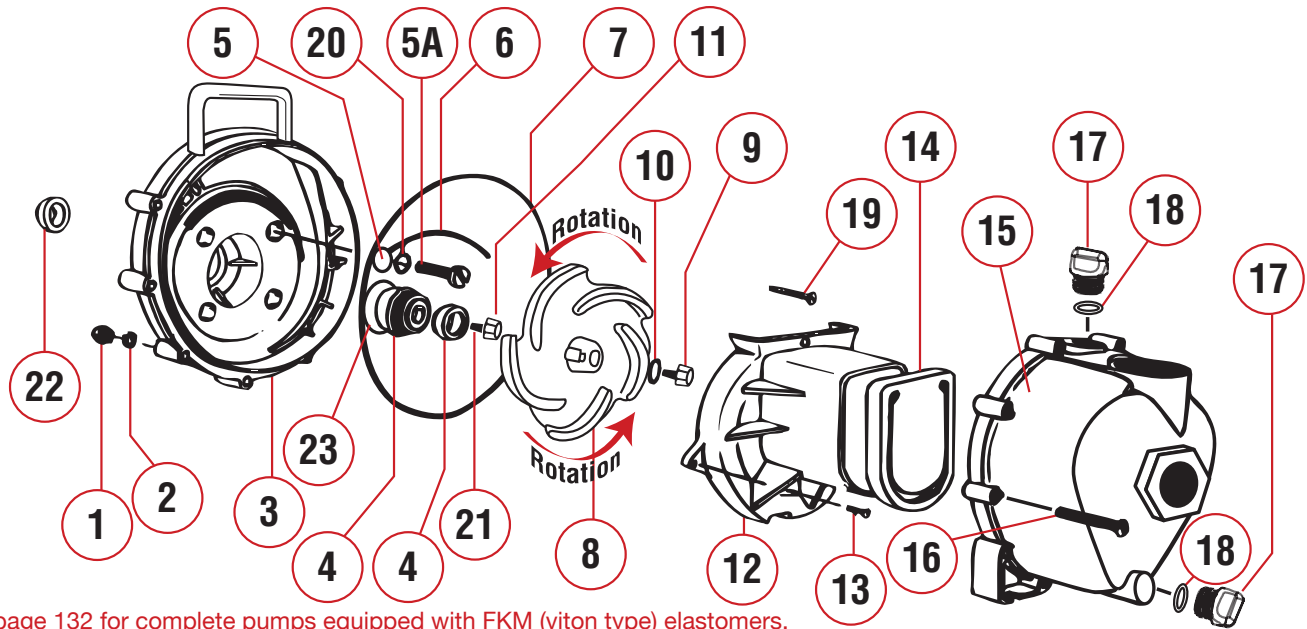
| PART NO | DESCRIPTION                                      | HP  | QTY | PRICE    |
|---------|--------------------------------------------------|-----|-----|----------|
| 150P-3  | 1½" Poly Pump w/3.5 HP Briggs & Stratton® Engine | 3.5 | 1   | \$910.11 |

## 2" POLY PUMPS W/GAS ENGINES

| PART NO  | DESCRIPTION                                                | HP  | QTY | PRICE      |
|----------|------------------------------------------------------------|-----|-----|------------|
| 200P-3   | 2" Poly Pump w/3.5 HP Briggs & Stratton® Engine            | 3.5 | 1   | \$910.11   |
| 200PH-5  | 2" Poly Pump w/5.5 HP Honda® Engine                        | 5.5 | 1   | \$1,846.02 |
| 200PH-5E | 2" Poly Pump w/5.5 HP Honda® Engine w/Electric Start       | 5.5 | 1   | \$2,637.18 |
| 200PH6   | 2" Poly Pump w/6.5 HP Honda® Engine                        | 6.5 | 1   | \$2,165.82 |
| 200P6PRO | 2" Poly Pump w/6.5 HP Briggs & Stratton® Engine Pro Series | 6.5 | 1   | \$1,058.77 |







See page 132 for complete pumps equipped with FKM (viton type) elastomers.

| REPLACEMENT PARTS 1½" POLY PUMPS |          |                                                                          |     |          |
|----------------------------------|----------|--------------------------------------------------------------------------|-----|----------|
| ITEM                             | PART NO  | DESCRIPTION                                                              | QTY | PRICE    |
| 1                                | V07019   | SS Body Nuts                                                             | 10  | \$0.42   |
| 2                                | V07018   | SS Lock Washers                                                          | 10  | \$0.42   |
| 3                                | 12703A   | Poly Pump Rear Bracket                                                   | 1   | \$87.65  |
| 4                                | 12713    | Seal Assembly                                                            | 1   | \$43.86  |
| 4                                | 12713V   | FKM (viton type) Seal Assembly w/316 SS Cup & Spring                     | 1   | \$70.72  |
| 5                                | 12717    | O-Ring for Screw Head                                                    | 4   | \$0.66   |
| 5                                | 12717V   | FKM (viton type) O-Ring for Screw Head                                   | 4   | \$1.02   |
| 5A                               | 12715A   | SS Bracket Screws                                                        | 4   | \$3.69   |
| 6                                | 12754    | O-Ring Segment                                                           | 1   | \$5.15   |
| 6                                | 12754V   | FKM (viton type) O-Ring Segment                                          | 1   | \$8.92   |
| 7                                | 12719A   | Body O-Ring                                                              | 1   | \$13.26  |
| 7                                | 12719AV  | FKM (viton type) Body O-Ring                                             | 8   | \$61.14  |
| 8                                | 12771A   | 3 Vane Impeller                                                          | 1   | \$41.99  |
| 9                                | 12765A   | SS Impeller Bolt                                                         | 1   | \$16.59  |
| 10                               | 12774VA  | Impeller Bolt Gasket                                                     | 1   | \$1.39   |
| 11                               | 12775A   | Impeller Hex Nut                                                         | 1   | \$13.26  |
| 12                               | 12702A   | Poly Pump Volute                                                         | 1   | \$64.53  |
| 13                               | 12725    | SS Volute Screws                                                         | 2   | \$3.30   |
| 14                               | 12705    | Check Valve                                                              | 1   | \$15.16  |
| 14                               | 12705V   | FKM (viton type) Pump Check Valve                                        | 1   | \$106.81 |
| 15                               | 12711A   | Body Assembly                                                            | 1   | \$141.45 |
| 16                               | 12720    | SS Body Screws                                                           | 10  | \$3.30   |
| 17                               | 12777    | Prime/Drain Plug                                                         | 2   | \$2.24   |
| 18                               | UV15163  | Prime/Drain Plug O-Ring                                                  | 2   | \$0.44   |
| 18                               | UV15163V | FKM (viton type) Prime/Drain Plug O-Ring                                 | 1   | \$3.19   |
| 19                               | 12900    | SS Upper Volute Screw                                                    | 4   | \$1.47   |
| 20                               | 12901    | SS Rear Bracket Washer                                                   | 4   | \$0.44   |
| 21                               | 12902A   | Impeller Key                                                             | 1   | \$1.55   |
| 22                               | 12716    | Poly Pump Slinger                                                        | 1   | \$5.15   |
| 23                               | 12710    | O-Ring for Seal Assembly                                                 | 1   | \$3.24   |
| 23                               | 12710V   | FKM (viton type) O-Ring for Seal Assembly                                | 1   | \$9.59   |
| N/S                              | 12882A   | Bearing Pedestal                                                         | 1   | \$213.64 |
| N/S                              | 12099    | 7/16"-14 x 1.25" HHCS                                                    | 1   | \$2.95   |
| N/S                              | 12003A   | 3 Vane Impeller Repair Kit (Items 4-8, 10, 14, 18, 22, 23 & 12099)       | 1   | \$125.23 |
| N/S                              | 12999A   | Pump Seal/O-Ring Kit (Items 4-7, 10, 18, 22, 23 & 12099)                 | 1   | \$70.72  |
| N/S                              | 12999AV  | FKM(viton type) Pump Seal/O-Ring Kit (Items 4-7, 10, 18, 22, 23 & 12099) | 1   | \$113.30 |

| REPLACEMENT PARTS 2" POLY PUMPS |          |                                                                             |     |          |
|---------------------------------|----------|-----------------------------------------------------------------------------|-----|----------|
| ITEM                            | PART NO  | DESCRIPTION                                                                 | QTY | PRICE    |
| 1                               | V07019   | SS Body Nuts                                                                | 10  | \$0.42   |
| 2                               | V07018   | SS Lock Washers                                                             | 10  | \$0.42   |
| 3                               | 12703A   | Poly Pump Rear Bracket                                                      | 1   | \$87.65  |
| 4                               | 12713    | Seal Assembly                                                               | 1   | \$43.86  |
| 4                               | 12713V   | FKM (viton type) Seal Assembly w/316 SS Cup & Spring                        | 1   | \$70.72  |
| 5                               | 12717    | O-Ring for Screw Head                                                       | 4   | \$0.66   |
| 5                               | 12717V   | FKM (viton type) O-Ring for Screw Head                                      | 4   | \$1.02   |
| 5A                              | 12715A   | SS Bracket Screws                                                           | 4   | \$3.69   |
| 6                               | 12754    | O-Ring Segment                                                              | 1   | \$5.15   |
| 6                               | 12754V   | FKM (viton type) O-Ring Segment                                             | 1   | \$8.92   |
| 7                               | 12719A   | Body O-Ring                                                                 | 1   | \$13.26  |
| 7                               | 12719AV  | FKM (viton type) Body O-Ring                                                | 8   | \$61.14  |
| 8                               | 12772    | 5 Vane Impeller                                                             | 1   | \$41.99  |
| 9                               | 12765A   | SS Impeller Bolt                                                            | 1   | \$16.59  |
| 10                              | 12774VA  | Impeller Bolt Gasket                                                        | 1   | \$1.39   |
| 11                              | 12775A   | Impeller Hex Nut                                                            | 1   | \$13.26  |
| 12                              | 12702A   | Poly Pump Volute                                                            | 1   | \$64.53  |
| 13                              | 12725    | SS Volute Screws                                                            | 2   | \$3.30   |
| 14                              | 12705    | Poly Pump Check Valve                                                       | 1   | \$15.16  |
| 14                              | 12705V   | FKM (viton type) Pump Check Valve                                           | 1   | \$106.81 |
| 15                              | 12712A   | Body Assembly                                                               | 1   | \$141.45 |
| 16                              | 12720    | SS Body Screws                                                              | 10  | \$3.30   |
| 17                              | 12777    | Prime/Drain Plug                                                            | 2   | \$2.24   |
| 18                              | UV15163  | Prime/Drain Plug O-Ring                                                     | 2   | \$0.44   |
| 18                              | UV15163V | FKM (viton type) Prime/Drain Plug O-Ring                                    | 1   | \$3.19   |
| 19                              | 12900    | SS Upper Volute Screw                                                       | 4   | \$1.47   |
| 20                              | 12901    | SS Rear Bracket Washer                                                      | 4   | \$0.44   |
| 21                              | 12902A   | Impeller Key                                                                | 1   | \$1.55   |
| 22                              | 12716    | Poly Pump Slinger                                                           | 1   | \$5.15   |
| 23                              | 12710    | O-Ring for Seal Assembly                                                    | 1   | \$3.24   |
| 23                              | 12710V   | FKM (viton type) O-Ring for Seal Assembly                                   | 1   | \$9.59   |
| N/S                             | 12882A   | Bearing Pedestal                                                            | 1   | \$213.64 |
| N/S                             | 12099    | 7/16"-14 x 1.25" HHCS                                                       | 1   | \$2.95   |
| N/S                             | 12000A   | 5 Vane Impeller Repair Kit (Items 4-8, 10, 14, 18, 22, 23 & 12099)          | 1   | \$125.23 |
| N/S                             | 12000AV  | FKM(viton type) Impeller Repair Kit (Items 4-8, 10, 14, 18, 22, 23 & 12099) | 1   | \$235.73 |
| N/S                             | 12999A   | Pump Seal/O-Ring Kit (Items 4-7, 10, 18, 22, 23 & 12099)                    | 1   | \$70.72  |
| N/S                             | 12999AV  | FKM(viton type) Pump Seal/O-Ring Kit (Items 4-7, 10, 18, 22, 23 & 12099)    | 1   | \$113.30 |

# 1½" & 2" Polypropylene Self-Priming Centrifugal Pump Pedestal Pump (for Electric Motors) Pump Only (for Gasoline Engines)

## PEDESTAL PUMP FEATURES

With the addition of the Banjo bearing pedestal, the pump is easily adaptable to electric power. A flexible shaft coupling is used between motor and pump shaft. Pump and motor assembly is mounted on a metal base.

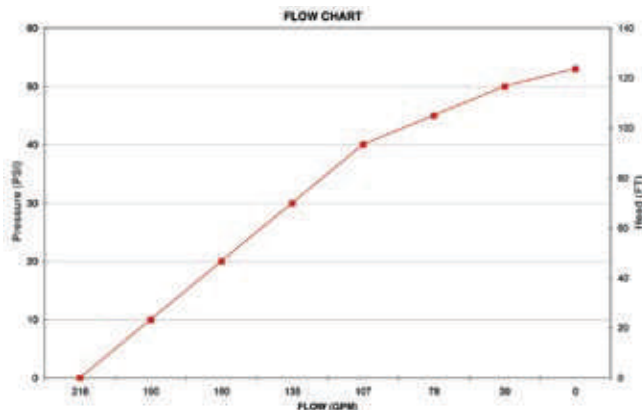


**CAUTION-WARNING:** Please do not run pump dry, restrict or reduce port sizes, or dead head pump. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**

## BUNA PUMPS

**NOTE:** Pumps equipped with Buna Rubber, please use regular EPDM pump prices. Add BN to the end of each part number.



## 2" POLY PUMPS W/FKM & SS SEALS

| PART NO   | DESCRIPTION                                                                                 | HP  | QTY | PRICE      |
|-----------|---------------------------------------------------------------------------------------------|-----|-----|------------|
| 200P-3-V  | 2" Poly Pump w/3.5 HP Briggs & Stratton® Engine w/FKM (viton type) & 316 SS Seal            | 3.5 | 1   | \$1,191.98 |
| 200P6PROV | 2" Poly Pump w/6.5 HP Briggs & Stratton® Engine Pro Series w/FKM (viton type) & 316 SS Seal | 6.5 | 1   | \$1,371.49 |
| 200PH-5V  | 2" Poly Pump w/5.5 HP Honda® Engine w/FKM (viton type) & 316 SS Seal                        | 5.5 | 1   | \$2,165.20 |

## 1½" POLY PUMPS W/FKM & SS SEALS

| PART NO  | DESCRIPTION                                                                       | HP  | QTY | PRICE      |
|----------|-----------------------------------------------------------------------------------|-----|-----|------------|
| 150P-3-V | 1½" Poly Pump w/3.5 HP Briggs & Stratton® Engine w/FKM (viton type) & 316 SS Seal | 3.5 | 1   | \$1,191.98 |

## 2" POLY BEARING PEDESTAL

| PART NO | DESCRIPTION                                           | HP  | QTY | PRICE    |
|---------|-------------------------------------------------------|-----|-----|----------|
| 200PB   | 2" Poly Bearing Pedstal w/ ¾" Shaft & 3 Vane Impeller | N/A | 1   | \$633.83 |
| 205PB   | 2" Poly Bearing Pedstal w/ ¾" Shaft & 5 Vane Impeller | N/A | 1   | \$633.83 |

## 1½" POLY BEARING PEDESTAL

| PART NO | DESCRIPTION                                            | HP  | QTY | PRICE    |
|---------|--------------------------------------------------------|-----|-----|----------|
| 150PB   | 1½" Poly Bearing Pedstal w/ ¾" Shaft & 3 Vane Impeller | N/A | 1   | \$633.83 |

## 2" POLY BEARING PEDESTAL W/FKM & SS SEALS

| PART NO | DESCRIPTION                                                                            | HP  | QTY | PRICE    |
|---------|----------------------------------------------------------------------------------------|-----|-----|----------|
| 200PB-V | 2" Poly Bearing Pedstal w/ ¾" Shaft & 3 Vane Impeller w/FKM (viton type) & 316 SS Seal | N/A | 1   | \$911.52 |
| 205PB-V | 2" Poly Bearing Pedstal w/ ¾" Shaft & 5 Vane Impeller w/FKM (viton type) & 316 SS Seal | N/A | 1   | \$911.52 |

## 1½" POLY BEARING PEDESTAL W/FKM & SS SEALS

| PART NO | DESCRIPTION                                                                             | HP  | QTY | PRICE    |
|---------|-----------------------------------------------------------------------------------------|-----|-----|----------|
| 150PB-V | 1½" Poly Bearing Pedstal w/ ¾" Shaft & 3 Vane Impeller w/FKM (viton type) & 316 SS Seal | N/A | 1   | \$911.52 |

## 1½" POLY PUMP ONLY

| PART NO | DESCRIPTION                                      | HP  | QTY | PRICE    |
|---------|--------------------------------------------------|-----|-----|----------|
| 150PO   | 1½" Poly Pump Only w/ ¾" Shaft & 3 Vane Impeller | N/A | 1   | \$358.02 |

## 2" POLY PUMP ONLY

| PART NO | DESCRIPTION                                     | HP  | QTY | PRICE    |
|---------|-------------------------------------------------|-----|-----|----------|
| 200PO   | 2" Poly Pump Only w/ ¾" Shaft & 3 Vane Impeller | N/A | 1   | \$358.02 |
| 205PO   | 2" Poly Pump Only w/ ¾" Shaft & 5 Vane Impeller | N/A | 1   | \$358.02 |

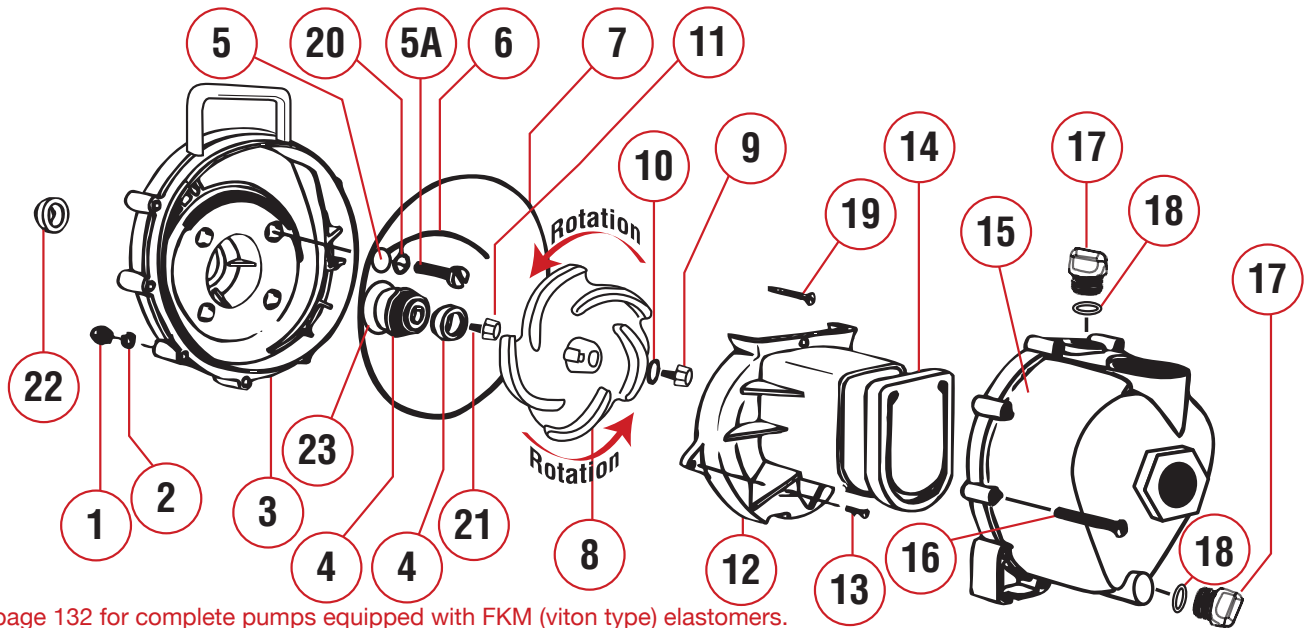
## 1½" POLY PUMP ONLY W/FKM & SS SEALS

| PART NO | DESCRIPTION                                                                       | HP  | QTY | PRICE    |
|---------|-----------------------------------------------------------------------------------|-----|-----|----------|
| 150PO-V | 1½" Poly Pump Only w/ ¾" Shaft & 3 Vane Impeller w/FKM (viton type) & 316 SS Seal | N/A | 1   | \$673.13 |

## 2" POLY PUMP ONLY W/FKM & SS SEALS

| PART NO | DESCRIPTION                                                                      | HP  | QTY | PRICE    |
|---------|----------------------------------------------------------------------------------|-----|-----|----------|
| 200PO-V | 2" Poly Pump Only w/ ¾" Shaft & 3 Vane Impeller w/FKM (viton type) & 316 SS Seal | N/A | 1   | \$673.13 |
| 205PO-V | 2" Poly Pump Only w/ ¾" Shaft & 5 Vane Impeller w/FKM (viton type) & 316 SS Seal | N/A | 1   | \$673.13 |





See page 132 for complete pumps equipped with FKM (viton type) elastomers.

### REPLACEMENT PARTS 1½" POLY PUMPS

| ITEM | PART NO  | DESCRIPTION                                                              | QTY | PRICE    |
|------|----------|--------------------------------------------------------------------------|-----|----------|
| 1    | V07019   | SS Body Nuts                                                             | 10  | \$0.42   |
| 2    | V07018   | SS Lock Washers                                                          | 10  | \$0.42   |
| 3    | 12703A   | Poly Pump Rear Bracket                                                   | 1   | \$87.65  |
| 4    | 12713    | Seal Assembly                                                            | 1   | \$43.86  |
| 4    | 12713V   | FKM (viton type) Seal Assembly w/316 SS Cup & Spring                     | 1   | \$70.72  |
| 5    | 12717    | O-Ring for Screw Head                                                    | 4   | \$0.66   |
| 5    | 12717V   | FKM (viton type) O-Ring for Screw Head                                   | 4   | \$1.02   |
| 5A   | 12715A   | SS Bracket Screws                                                        | 4   | \$3.69   |
| 6    | 12754    | O-Ring Segment                                                           | 1   | \$5.15   |
| 6    | 12754V   | FKM (viton type) O-Ring Segment                                          | 1   | \$8.92   |
| 7    | 12719A   | Body O-Ring                                                              | 1   | \$13.26  |
| 7    | 12719AV  | FKM (viton type) Body O-Ring                                             | 8   | \$61.14  |
| 8    | 12771A   | 3 Vane Impeller                                                          | 1   | \$41.99  |
| 9    | 12765A   | SS Impeller Bolt                                                         | 1   | \$16.59  |
| 10   | 12774VA  | Impeller Bolt Gasket                                                     | 1   | \$1.39   |
| 11   | 12775A   | Impeller Hex Nut                                                         | 1   | \$13.26  |
| 12   | 12702A   | Poly Pump Volute                                                         | 1   | \$64.53  |
| 13   | 12725    | SS Volute Screws                                                         | 2   | \$3.30   |
| 14   | 12705    | Check Valve                                                              | 1   | \$15.16  |
| 14   | 12705V   | FKM (viton type) Pump Check Valve                                        | 1   | \$106.81 |
| 15   | 12711A   | Body Assembly                                                            | 1   | \$141.45 |
| 16   | 12720    | SS Body Screws                                                           | 10  | \$3.30   |
| 17   | 12777    | Prime/Drain Plug                                                         | 2   | \$2.24   |
| 18   | UV15163  | Prime/Drain Plug O-Ring                                                  | 2   | \$0.44   |
| 18   | UV15163V | FKM (viton type) Prime/Drain Plug O-Ring                                 | 1   | \$3.19   |
| 19   | 12900    | SS Upper Volute Screw                                                    | 4   | \$1.47   |
| 20   | 12901    | SS Rear Bracket Washer                                                   | 4   | \$0.44   |
| 21   | 12902A   | Impeller Key                                                             | 1   | \$1.55   |
| 22   | 12716    | Poly Pump Slinger                                                        | 1   | \$5.15   |
| 23   | 12710    | O-Ring for Seal Assembly                                                 | 1   | \$3.24   |
| 23   | 12710V   | FKM (viton type) O-Ring for Seal Assembly                                | 1   | \$9.59   |
| N/S  | 12882A   | Bearing Pedestal                                                         | 1   | \$213.64 |
| N/S  | 12099    | 7/16"-14 x 1.25" HHCS                                                    | 1   | \$2.95   |
| N/S  | 12003A   | 3 Vane Impeller Repair Kit (Items 4-8, 10, 14, 18, 22, 23 & 12099)       | 1   | \$125.23 |
| N/S  | 12999A   | Pump Seal/O-Ring Kit (Items 4-7, 10, 18, 22, 23 & 12099)                 | 1   | \$70.72  |
| N/S  | 12999AV  | FKM(viton type) Pump Seal/O-Ring Kit (Items 4-7, 10, 18, 22, 23 & 12099) | 1   | \$113.30 |

### REPLACEMENT PARTS 2" POLY PUMPS

| ITEM | PART NO  | DESCRIPTION                                                                 | QTY | PRICE    |
|------|----------|-----------------------------------------------------------------------------|-----|----------|
| 1    | V07019   | SS Body Nuts                                                                | 10  | \$0.42   |
| 2    | V07018   | SS Lock Washers                                                             | 10  | \$0.42   |
| 3    | 12703A   | Poly Pump Rear Bracket                                                      | 1   | \$87.65  |
| 4    | 12713    | Seal Assembly                                                               | 1   | \$43.86  |
| 4    | 12713V   | FKM (viton type) Seal Assembly w/316 SS Cup & Spring                        | 1   | \$70.72  |
| 5    | 12717    | O-Ring for Screw Head                                                       | 4   | \$0.66   |
| 5    | 12717V   | FKM (viton type) O-Ring for Screw Head                                      | 4   | \$1.02   |
| 5A   | 12715A   | SS Bracket Screws                                                           | 4   | \$3.69   |
| 6    | 12754    | O-Ring Segment                                                              | 1   | \$5.15   |
| 6    | 12754V   | FKM (viton type) O-Ring Segment                                             | 1   | \$8.92   |
| 7    | 12719A   | Body O-Ring                                                                 | 1   | \$13.26  |
| 7    | 12719AV  | FKM (viton type) Body O-Ring                                                | 8   | \$61.14  |
| 8    | 12772    | 5 Vane Impeller                                                             | 1   | \$41.99  |
| 9    | 12765A   | SS Impeller Bolt                                                            | 1   | \$16.59  |
| 10   | 12774VA  | Impeller Bolt Gasket                                                        | 1   | \$1.39   |
| 11   | 12775A   | Impeller Hex Nut                                                            | 1   | \$13.26  |
| 12   | 12702A   | Poly Pump Volute                                                            | 1   | \$64.53  |
| 13   | 12725    | SS Volute Screws                                                            | 2   | \$3.30   |
| 14   | 12705    | Check Valve                                                                 | 1   | \$15.16  |
| 14   | 12705V   | FKM (viton type) Pump Check Valve                                           | 1   | \$106.81 |
| 15   | 12712A   | Body Assembly                                                               | 1   | \$141.45 |
| 16   | 12720    | SS Body Screws                                                              | 10  | \$3.30   |
| 17   | 12777    | Prime/Drain Plug                                                            | 2   | \$2.24   |
| 18   | UV15163  | Prime/Drain Plug O-Ring                                                     | 2   | \$0.44   |
| 18   | UV15163V | FKM (viton type) Prime/Drain Plug O-Ring                                    | 1   | \$3.19   |
| 19   | 12900    | SS Upper Volute Screw                                                       | 4   | \$1.47   |
| 20   | 12901    | SS Rear Bracket Washer                                                      | 4   | \$0.44   |
| 21   | 12902A   | Impeller Key                                                                | 1   | \$1.55   |
| 22   | 12716    | Poly Pump Slinger                                                           | 1   | \$5.15   |
| 23   | 12710    | O-Ring for Seal Assembly                                                    | 1   | \$3.24   |
| 23   | 12710V   | FKM (viton type) O-Ring for Seal Assembly                                   | 1   | \$9.59   |
| N/S  | 12882A   | Bearing Pedestal                                                            | 1   | \$213.64 |
| N/S  | 12099    | 7/16"-14 x 1.25" HHCS                                                       | 1   | \$2.95   |
| N/S  | 12000A   | 5 Vane Impeller Repair Kit (Items 4-8, 10, 14, 18, 22, 23 & 12099)          | 1   | \$125.23 |
| N/S  | 12000AV  | FKM(viton type) Impeller Repair Kit (Items 4-8, 10, 14, 18, 22, 23 & 12099) | 1   | \$235.73 |
| N/S  | 12999A   | Pump Seal/O-Ring Kit (Items 4-7, 10, 18, 22, 23 & 12099)                    | 1   | \$70.72  |
| N/S  | 12999AV  | FKM(viton type) Pump Seal/O-Ring Kit (Items 4-7, 10, 18, 22, 23 & 12099)    | 1   | \$113.30 |

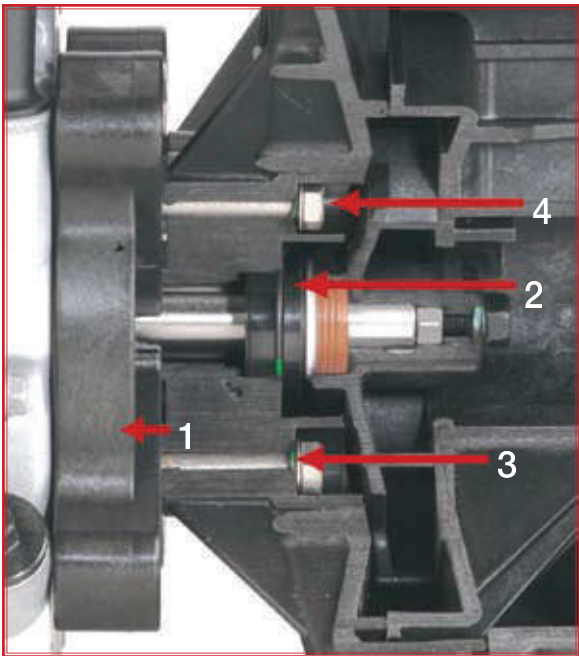
# 2" Polypropylene Self-Priming Chemical Service Pump

## FEATURES

1. Additional drive unit protection with added 1" spacer for ultimate protection.
2. Special non-metallic mechanical seal designed for better chemical resistance.
3. All elastomers are FKM (viton type).
4. All internal fasteners are TFE coated stainless steel.
5. The Banjo "Super Slinger" included for even more drive unit protection (not shown).



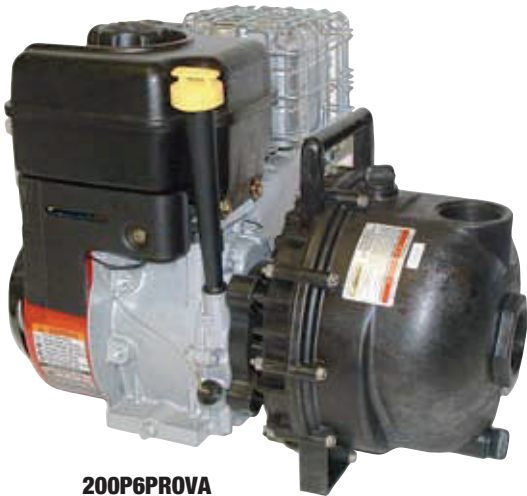
234PPE5VA



No warranty on chemical service pumps.

| 2" POLY CHEMICAL SERVICE PUMPS |                                                                             |     |     |            |  |
|--------------------------------|-----------------------------------------------------------------------------|-----|-----|------------|--|
| PART NO                        | DESCRIPTION                                                                 | HP  | QTY | PRICE      |  |
| 200PH5VA                       | 2" Poly Chemical Service Pump w/5.5 HP Honda® Engine                        | 5.5 | 1   | \$2,373.06 |  |
| 200P6PROVA                     | 2" Poly Chemical Service Pump w/6.5 HP Briggs & Stratton® Engine Pro Series | 6.5 | 1   | \$1,548.17 |  |
| 234PPE5VA                      | 2" Poly Chemical Service Pump w/5.0 HP Three Phase Electric Motor           | 5.0 | 1   | \$3,287.61 |  |

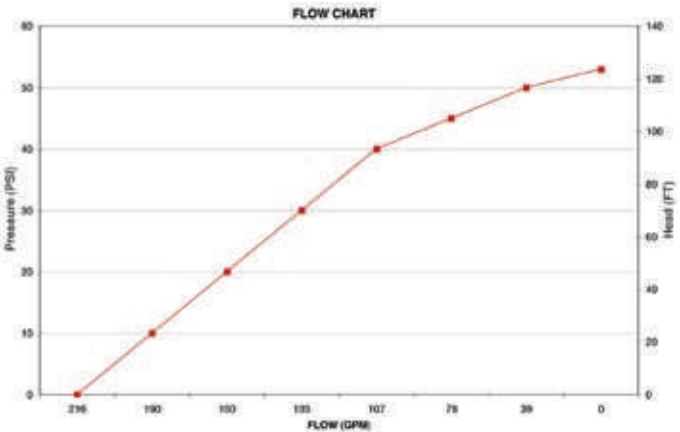
| 2" POLY CHEMICAL SERVICE BEARING PEDESTALS |                                                                        |     |     |            |  |
|--------------------------------------------|------------------------------------------------------------------------|-----|-----|------------|--|
| PART NO                                    | DESCRIPTION                                                            | HP  | QTY | PRICE      |  |
| 200PB-VA                                   | 2" Poly Chemical Service Bearing Pedstal w/ ¾" Shaft & 3 Vane Impeller | N/A | 1   | \$1,072.78 |  |
| 205PB-VA                                   | 2" Poly Chemical Service Bearing Pedstal w/ ¾" Shaft & 5 Vane Impeller | N/A | 1   | \$1,072.78 |  |



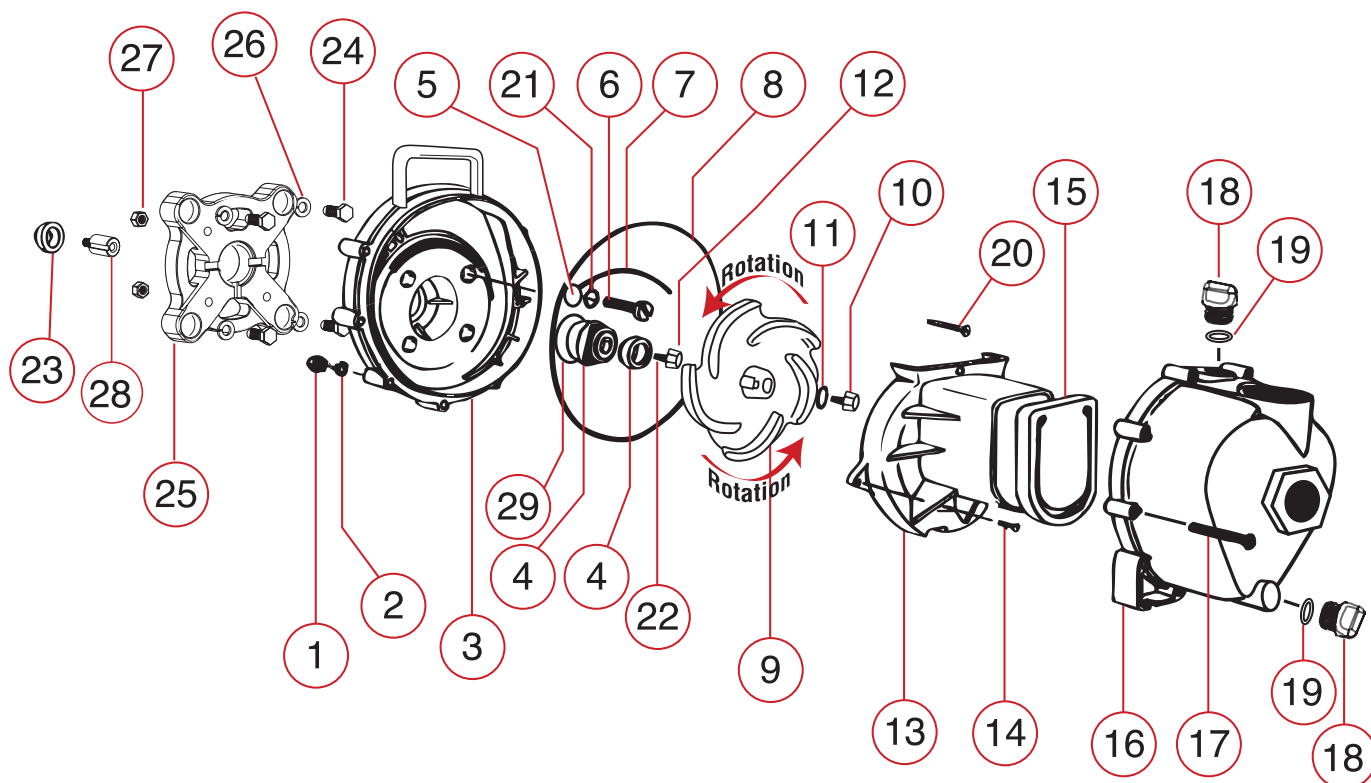
200P6PROVA

**CAUTION-WARNING:** Please do not run pump dry, restrict or reduce port sizes, or dead head pump. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**





**REPLACEMENT PARTS 2" POLY CHEMICAL SERVICE PUMPS**

| ITEM | PART NO | DESCRIPTION            | QTY | PRICE    |
|------|---------|------------------------|-----|----------|
| 1    | V07019  | SS Body Nuts           | 10  | \$0.42   |
| 2    | V07018  | SS Lock Washers        | 10  | \$0.42   |
| 3    | 12703A  | Poly Pump Rear Bracket | 1   | \$87.65  |
| 4    | 12729VA | Seal Assembly          | 1   | \$319.72 |
| 5    | 12717V  | Screw Heads O-Ring     | 4   | \$1.02   |
| 6    | 12715AT | SS Bracket Screws      | 4   | \$12.64  |
| 7    | 12754V  | O-Ring Segment         | 1   | \$8.92   |
| 8    | 12719AV | Body O-Ring            | 1   | \$61.14  |
| 9    | 12771A  | 3 Vane Impeller        | 1   | \$41.99  |
| 9    | 12772   | 5 Vane Impeller        | 1   | \$41.99  |
| 10   | 12765AT | SS Impeller Bolt       | 1   | \$22.10  |
| 11   | 12774VA | Impeller Bolt Gasket   | 1   | \$1.39   |
| 12   | 12775A  | Impeller Hex Nut       | 1   | \$13.26  |
| 13   | 12702A  | Poly Pump Volute       | 1   | \$64.53  |
| 14   | 12725T  | SS Volute Screws       | 2   | \$10.53  |
| 15   | 12705V  | Poly Pump Check Valve  | 1   | \$106.81 |
| 16   | 12712AV | Body Assembly          | 1   | \$127.43 |
| 17   | 12720   | SS Body Screws         | 10  | \$3.30   |

**REPLACEMENT PARTS 2" POLY CHEMICAL SERVICE PUMPS**

| ITEM | PART NO  | DESCRIPTION                                                             | QTY | PRICE    |
|------|----------|-------------------------------------------------------------------------|-----|----------|
| 18   | 12777    | Prime/Drain Plug                                                        | 2   | \$2.24   |
| 19   | UV15163V | Prime/Drain Plug O-Ring                                                 | 2   | \$3.19   |
| 20   | 12900T   | SS Upper Volute Screw                                                   | 1   | \$2.06   |
| 21   | 12901T   | SS Rear Bracket Washer                                                  | 4   | \$1.88   |
| 22   | 12902A   | Impeller Key                                                            | 1   | \$1.55   |
| 23   | 12716    | Poly Pump Slinger                                                       | 1   | \$5.15   |
| 24   | 17704    | 3/8"-16 x 1.25" HHCS                                                    | 8   | \$3.08   |
| 25   | 12048    | Engine Spacer                                                           | 1   | \$32.26  |
| 25   | 12046    | 56C Frame Adapter                                                       | 1   | \$29.44  |
| 26   | V20018   | Lock Washer for 56C Frame Adapter                                       | 8   | \$0.42   |
| 27   | V10119   | Nut for 56C Frame Adapter                                               | 4   | \$0.56   |
| 28   | 12051    | 1" Extension for 3/4" Engine Shaft                                      | 1   | \$12.90  |
| 29   | 12710V   | O-Ring for Seal Assembly                                                | 1   | \$9.59   |
| N/S  | 12882A   | Bearing Pedestal                                                        | 1   | \$213.64 |
| N/S  | 12099    | 7/16"-14 x 1.25" HHCS                                                   | 1   | \$2.95   |
| N/S  | 12003VAT | 3 Vane Impeller Repair Kit (Items 4-11, 14, 15, 19-23, 29 & 12099)      | 1   | \$406.67 |
| N/S  | 12005VAT | 5 Vane Impeller Repair Kit (Items 4-11, 14, 15, 19-23, 29 & 12099)      | 1   | \$417.89 |
| N/S  | 12999VA  | Pump Seal/O-Ring Kit (Items 4, 5, 7, 8, 11, 19, 23, 29 & 12099)         | 1   | \$266.42 |
| N/S  | 12758    | Pump Engine Spacer Kit (Items 5, 25, 28, 12748SS, 12901, 15751 & 15752) | 1   | \$72.91  |

**12758 - Poly Pump Engine Spacer Kit**

The 12758 spacer kit includes the poly adapter, adapter shaft, and related hardware to space the pump an additional 1" away from the motor.

NOTE: Advanced installation techniques and pump shimming required with this kit.



# 2" Polypropylene Self-Priming Centrifugal Pump Electric Motor Drive Pumps

## FEATURES

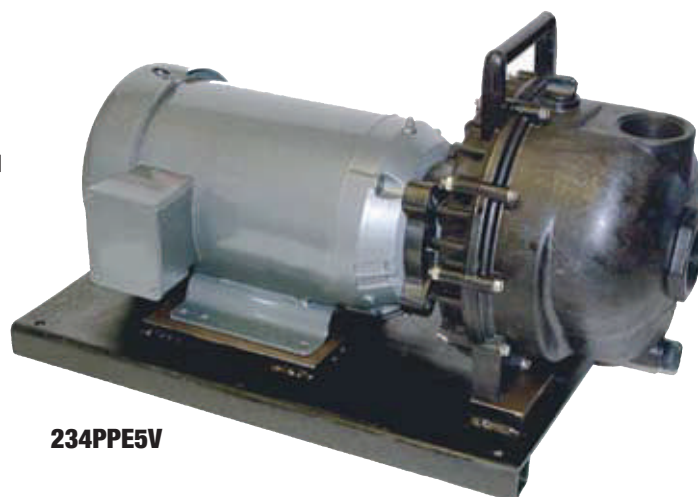
- Precision molded construction.
- Lightweight.
- Corrosion resistant.
- Superior design.
- Low maintenance.

### Maximum Motor Protection!

We have designed the new Banjo poly pump to protect the motor seal in the event of pump seal failure. We have separated the pump from the motor by 1" spacer and installed a special slinger/shaft seal that completely protects the engine from any corrosive fluids. This new slinger design is the best in the poly pump industry at protecting your motor.

**CAUTION-WARNING:** Please do not run pump dry, restrict or reduce port sizes, or dead head pump. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**

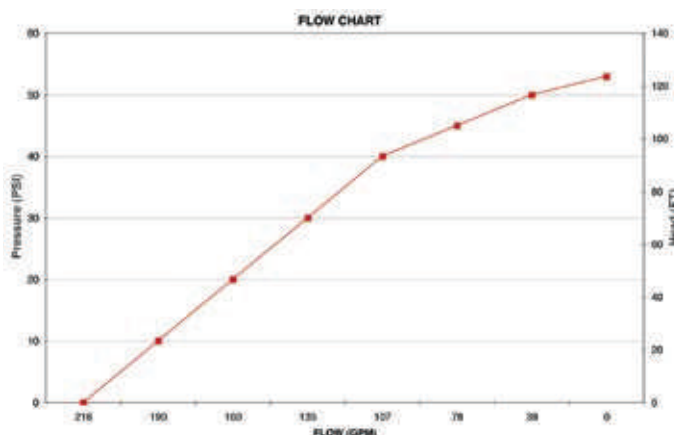


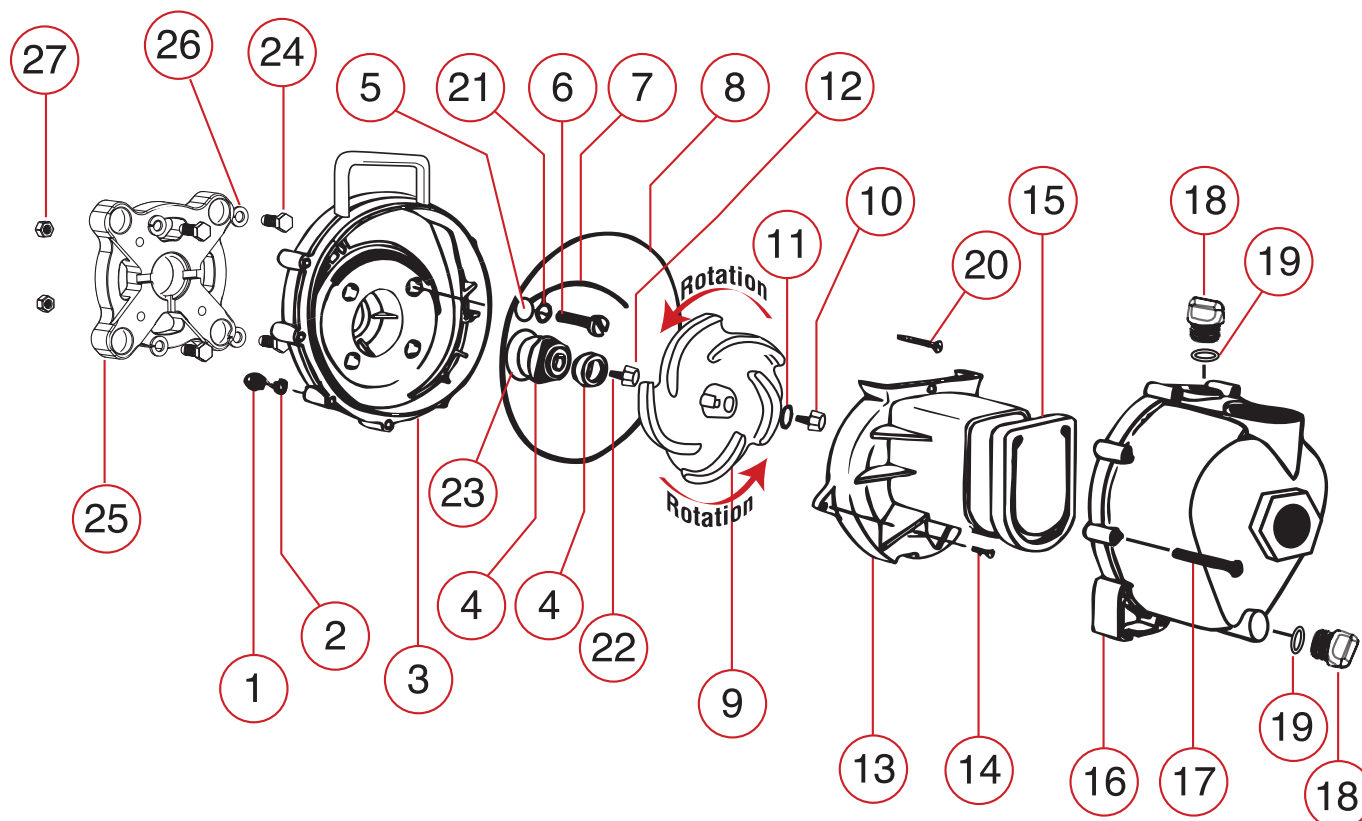
**234PPE5V**

| 2" POLY PUMPS W/ELECTRIC MOTORS |                                                                                 |     |     |            |
|---------------------------------|---------------------------------------------------------------------------------|-----|-----|------------|
| PART NO                         | DESCRIPTION                                                                     | HP  | QTY | PRICE      |
| 234PPE5                         | 2" Poly Pump w/5.0 HP Three Phase Electric Motor w/ EPDM Elastomers             | 5.0 | 1   | \$2,524.19 |
| 234PPE5V                        | 2" Poly Pump w/5.0 HP Three Phase Electric Motor w/FKM (viton type) Elastomers  | 5.0 | 1   | \$2,884.78 |
| 234PPE51                        | 2" Poly Pump w/5.0 HP Single Phase Electric Motor w/ EPDM Elastomers            | 5.0 | 1   | \$2,790.63 |
| 234PPE51V                       | 2" Poly Pump w/5.0 HP Single Phase Electric Motor w/FKM (viton type) Elastomers | 5.0 | 1   | \$3,189.29 |

| 1½" & 2" POLY PUMPS FOR 56C FACED MOTORS |                                  |     |     |          |
|------------------------------------------|----------------------------------|-----|-----|----------|
| PART NO                                  | DESCRIPTION                      | HP  | QTY | PRICE    |
| 150PEO                                   | 1½" Poly Pump w/56C Face Adapter | N/A | 1   | \$342.33 |
| 200PEO                                   | 2" Poly Pump w/56C Face Adapter  | N/A | 1   | \$342.33 |

**234PPE5V SERIES**



**REPLACEMENT PARTS 2" POLY PUMPS W/ELECTRIC MOTORS**

| ITEM | PART NO | DESCRIPTION            | QTY | PRICE    |
|------|---------|------------------------|-----|----------|
| 1    | V07019  | SS Body Nuts           | 1   | \$0.42   |
| 2    | V07018  | SS Lock Washers        | 10  | \$0.42   |
| 3    | 12703A  | Poly Pump Rear Bracket | 10  | \$87.65  |
| 4    | 12713V  | Seal Assembly          | 1   | \$70.72  |
| 5    | 12717V  | Screw Heads O-Ring     | 4   | \$1.02   |
| 6    | BF107   | SS Bracket Screws      | 4   | \$1.43   |
| 7    | 12754V  | O-Ring Segment         | 1   | \$8.92   |
| 8    | 12719AV | Body O-Ring            | 1   | \$61.14  |
| 9    | 12772   | 5 Vane Impeller        | 1   | \$41.99  |
| 10   | 12765A  | SS Impeller Bolt       | 1   | \$16.59  |
| 11   | 12774VA | Impeller Bolt Gasket   | 1   | \$1.39   |
| 12   | 12775A  | Impeller Hex Nut       | 1   | \$13.26  |
| 13   | 12702A  | Poly Pump Volute       | 1   | \$64.53  |
| 14   | 12725   | SS Volute Screws       | 2   | \$3.30   |
| 15   | 12705V  | Poly Pump Check Valve  | 1   | \$106.81 |

**REPLACEMENT PARTS 2" POLY PUMPS W/ELECTRIC MOTORS**

| ITEM | PART NO  | DESCRIPTION                                                            | QTY | PRICE    |
|------|----------|------------------------------------------------------------------------|-----|----------|
| 16   | 12712AV  | Body Assembly                                                          | 1   | \$127.43 |
| 17   | 12720    | SS Body Screws                                                         | 10  | \$3.30   |
| 18   | 12777    | Prime/Drain Plug                                                       | 2   | \$2.24   |
| 19   | UV15163V | Prime/Drain Plug O-Ring                                                | 2   | \$3.19   |
| 20   | 12900    | SS Upper Volute Screw                                                  | 1   | \$1.47   |
| 21   | 12901    | SS Rear Bracket Washer                                                 | 4   | \$0.44   |
| 22   | 12902A   | Impeller Key                                                           | 1   | \$1.55   |
| 23   | 12710V   | O-Ring for Seal Assembly                                               | 1   | \$9.59   |
| 24   | 17704    | 3/8"-16 x 1.25" HHCS                                                   | 8   | \$3.08   |
| 25   | 12046    | 56C Frame Adapter                                                      | 1   | \$29.44  |
| 26   | V20018   | Lock Washer for 56C Frame Adapter                                      | 8   | \$0.42   |
| 27   | V10119   | Nut for 56C Frame Adapter                                              | 4   | \$0.56   |
| N/S  | 17701    | Base Plate                                                             | 1   | \$278.12 |
| N/S  | 12099    | 7/16"-14 x 1.25" HHCS                                                  | 1   | \$2.95   |
| N/S  | 12052    | 56C Frame Adapter Shaft                                                | 1   | \$95.36  |
| N/S  | 12756    | 56C Frame Adapter Kit (Items 6, 22, 24-27, 12052, 12053, 15751, 15752) | 1   | \$119.19 |

**12756 - 56C Frame Adapter Kit**

The 12756 spacer kit includes the poly adapter, adapter shaft, and related hardware to attach a Banjo Poly Pump to a 56C frame electric motor.

NOTE: Advanced installation techniques, and pump shimming required with this kit.

# 2" Polypropylene Hydraulic Centrifugal Pump

## GRESEN® MGG2 HYDRAULIC MOTOR

- Hydraulic fluid capacity  
Minimum 6 Gallons / Maximum 10 Gallons.
- 12 H.P. Motor.
- Open or closed system.
- 3600 R.P.M.

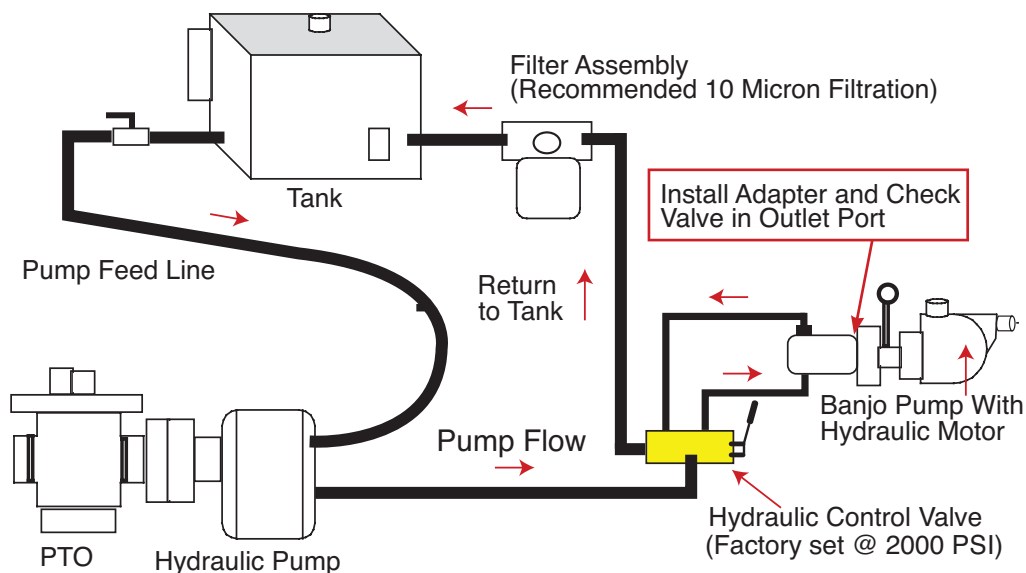
**CAUTION-WARNING:** Please do not run pump dry, restrict or reduce port sizes, or dead head pump. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**

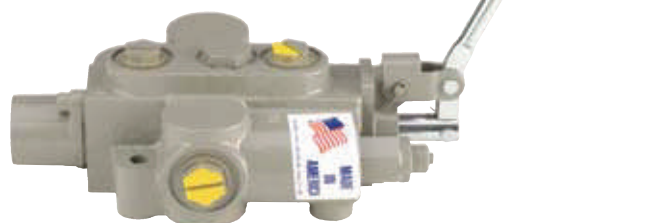


| 2" POLY HYDRAULIC PUMPS |                                      |      |     |            |
|-------------------------|--------------------------------------|------|-----|------------|
| PART NO                 | DESCRIPTION                          | HP   | QTY | PRICE      |
| 200PHA                  | 2" Poly Pump without Hydraulic Motor | N/A  | 1   | \$718.01   |
| 200PHY                  | 2" Poly Pump w/12 HP Hydraulic Motor | 12.0 | 1   | \$1,734.07 |

## SPOOL VALVE ASSEMBLY DIAGRAM



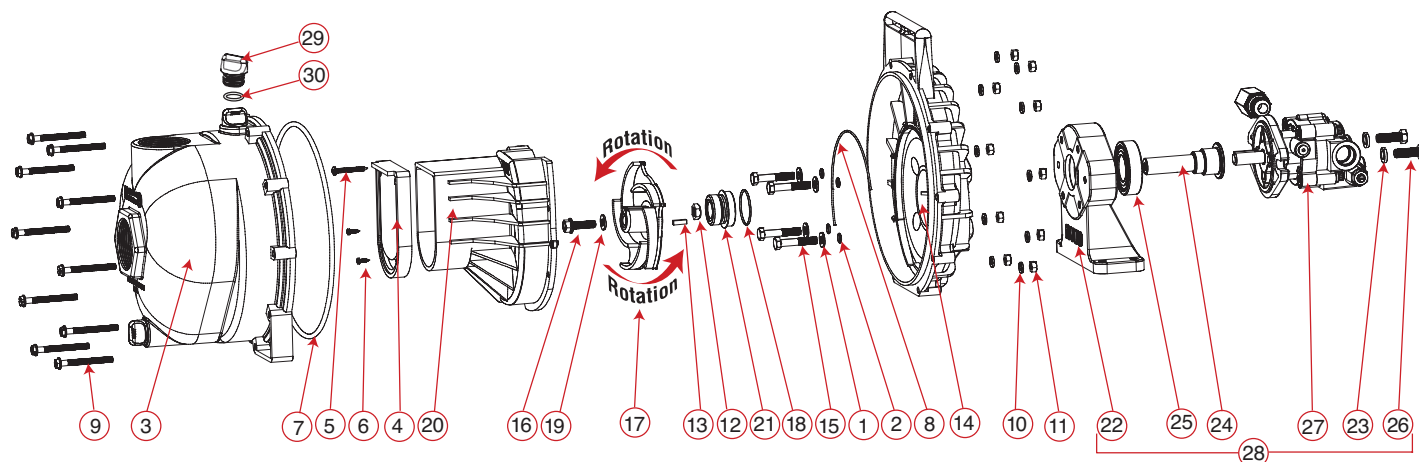
**Recommendation:**  
We recommend using the motor spool control valve or a suitable equivalent. The lack of such a valve in this circuit may cause failure to the hydraulic motor.



## HYDRAULIC MOTOR SPOOL VALVE

| PART NO | DESCRIPTION                 | HP  | QTY | PRICE    |
|---------|-----------------------------|-----|-----|----------|
| HSV1000 | Hydraulic Motor Spool Valve | N/A | 1   | \$649.23 |



**HYDRAULIC MOTOR DATA**

|                        |                        |
|------------------------|------------------------|
| U.S. Gallons/Rev.      | 0.0025                 |
| Cubic Inches/Rev.      | 0.580                  |
| Liters/Rev.            | 0.0097                 |
| Max Hydraulic Pressure | 2000 PSI               |
| Min Hydraulic Pressure | 200 PSI                |
| Inlet Port             | SAE 10 (7/8-14 UNF-2B) |
| Outlet Port            | SAE 10 (7/8-14 UNF-2B) |
| Minimum GPM Required   | 6 GPM 2400 RPM         |
| Maximum GPM Required   | 10 GPM 4000 RPM        |
| Ideal GPM Required     | 9 GPM 3600 RPM         |

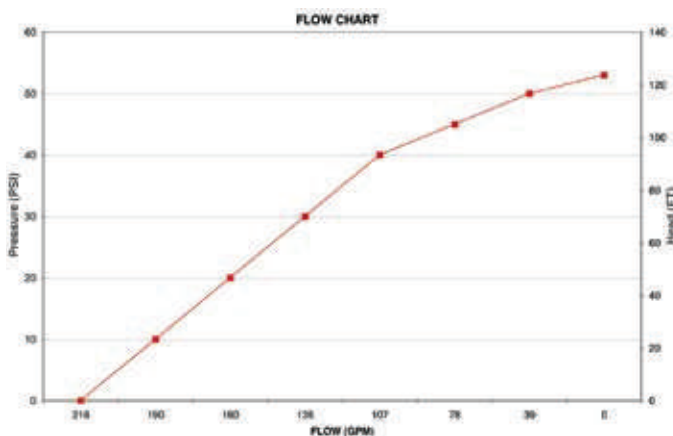
**CONNECTION INFORMATION**

|        |          |
|--------|----------|
| Inlet  | "A" Port |
| Outlet | "B" Port |

Supplied check valve is to ensure proper rotation of the Banjo pump. Place check valve in outlet port (marked "B") for proper right hand rotation.

**SPOOL VALVE INFORMATION**

|                          |                            |
|--------------------------|----------------------------|
| Required Outlet Flow     | Min 6 GPM / Max 10 GPM     |
| Required System Pressure | Min 600 PSI / Max 3000 PSI |



**NOTE:** See page 132 for complete pumps equipped with FKM (viton type) elastomers.

**REPLACEMENT PARTS 2" POLY PUMPS W/ HYDRAULIC ADAPTER**

| ITEM | PART NO | DESCRIPTION                               | QTY | PRICE      |
|------|---------|-------------------------------------------|-----|------------|
| 1    | 12901   | SS Rear Bracket Washer                    | 4   | \$0.44     |
| 2    | 12717   | O-Ring for Screw Heads                    | 4   | \$0.66     |
| 2    | 12717V  | FKM (viton type) O-Ring for Screw Heads   | 4   | \$1.02     |
| 3    | 12712A  | Body Assembly                             | 1   | \$141.45   |
| 4    | 12705   | Check Valve                               | 1   | \$15.16    |
| 4    | 12705V  | FKM (viton type) Poly Pump Check Valve    | 1   | \$106.81   |
| 5    | 12900   | SS Upper Volute Screw                     | 4   | \$1.47     |
| 6    | 12725   | SS Volute Screws                          | 2   | \$3.30     |
| 7    | 12719A  | Body O-Ring                               | 1   | \$13.26    |
| 8    | 12754   | O-Ring Segment                            | 1   | \$5.15     |
| 8    | 12754V  | FKM (viton type) O-Ring Segment           | 1   | \$8.92     |
| 9    | 12720   | SS Body Screws                            | 10  | \$3.30     |
| 10   | V07018  | SS Lock Washers                           | 10  | \$0.42     |
| 11   | V07019  | SS Body Nuts                              | 10  | \$0.42     |
| 12   | 12775A  | Impeller Hex Nut                          | 1   | \$13.26    |
| 13   | 12902A  | Impeller Key                              | 1   | \$1.55     |
| 14   | 12703A  | Poly Pump Rear Bracket                    | 1   | \$87.65    |
| 15   | 12715A  | 5/16"-24 x 1.75" HHCS                     | 4   | \$3.69     |
| 16   | 12765A  | SS Impeller Bolt                          | 1   | \$16.59    |
| 17   | 12772   | 5 Vane Impeller                           | 1   | \$41.99    |
| 18   | 12710   | O-Ring for Seal Assembly                  | 1   | \$3.24     |
| 18   | 12710V  | FKM (viton type) O-Ring for Seal Assembly | 1   | \$9.59     |
| 19   | 12774VA | Impeller Bolt Gasket                      | 1   | \$1.39     |
| 20   | 12702A  | Poly Pump Volute                          | 1   | \$64.53    |
| 21   | 12713   | Mechanical Seal Assembly                  | 1   | \$43.86    |
| 22   | 12049B  | Hydraulic Pedestal Housing                | 1   | \$150.27   |
| 23   | V20018  | 3/8" Lock Washer                          | 2   | \$0.42     |
| 24   | 12055B  | Adapter Shaft                             | 1   | \$120.21   |
| 25   | 17056   | Bearing                                   | 1   | \$41.73    |
| 26   | 18010SS | 3/8"-16 x 1.25" HHCS                      | 2   | \$1.86     |
| 27   | HY1013  | Hydraulic Motor                           | 1   | \$1,264.49 |
| 28   | 12600B  | Complete Hydraulic Assembly               | 1   | \$1,397.56 |
| 29   | 12777   | Drain Plug                                | 2   | \$2.24     |
| 30   | UV15163 | O-Ring for Plug                           | 2   | \$0.44     |



# 3" Polypropylene Self-Priming Centrifugal Pumps

## PUMP FEATURES

- High strength polypropylene.
- Corrosion resistant.
- Lightweight – portable.
- High performance impellers.

## APPLICATIONS

- Agricultural pump.
- Contractor pump.
- Emergency use: fires & floods.



**300PH-6**  
6.5 HP HONDA PUMP



**300P11PRO**  
11HP BRIGGS & STRATTON INTEK PRO PUMP



### 3" POLY PUMPS W/GAS ENGINES

| PART NO   | DESCRIPTION                                               | HP  | QTY | PRICE      |
|-----------|-----------------------------------------------------------|-----|-----|------------|
| 300PH-6   | 3" Poly Pump w/6.5 HP Honda® Engine                       | 6.5 | 1   | \$2,342.54 |
| 300P11PRO | 3" Poly Pump w/11 HP Briggs & Stratton® Engine Pro Series | 11  | 1   | \$2,235.75 |

### 3" POLY BEARING PEDESTAL

| PART NO | DESCRIPTION                                              | HP  | QTY | PRICE      |
|---------|----------------------------------------------------------|-----|-----|------------|
| 300PB   | 3" Poly Bearing Pedestal w/ 3/4" Shaft & 4 Vane Impeller | N/A | 1   | \$1,016.69 |

### 3" POLY PUMP ONLY

| PART NO | DESCRIPTION                                                   | HP  | QTY | PRICE    |
|---------|---------------------------------------------------------------|-----|-----|----------|
| 300PO   | 3" Poly Pump Only w/ 3/4" Shaft & 4 Vane Impeller Unassembled | N/A | 1   | \$581.97 |



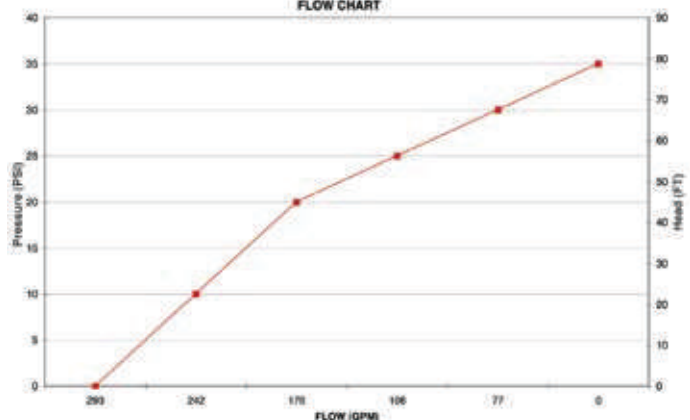
## PEDESTAL PUMP 300PB & PUMP ONLY 300PO

**CAUTION-WARNING:** Please do not run pump dry, restrict or reduce port sizes, or dead head pump. This could cause component failure to pump.

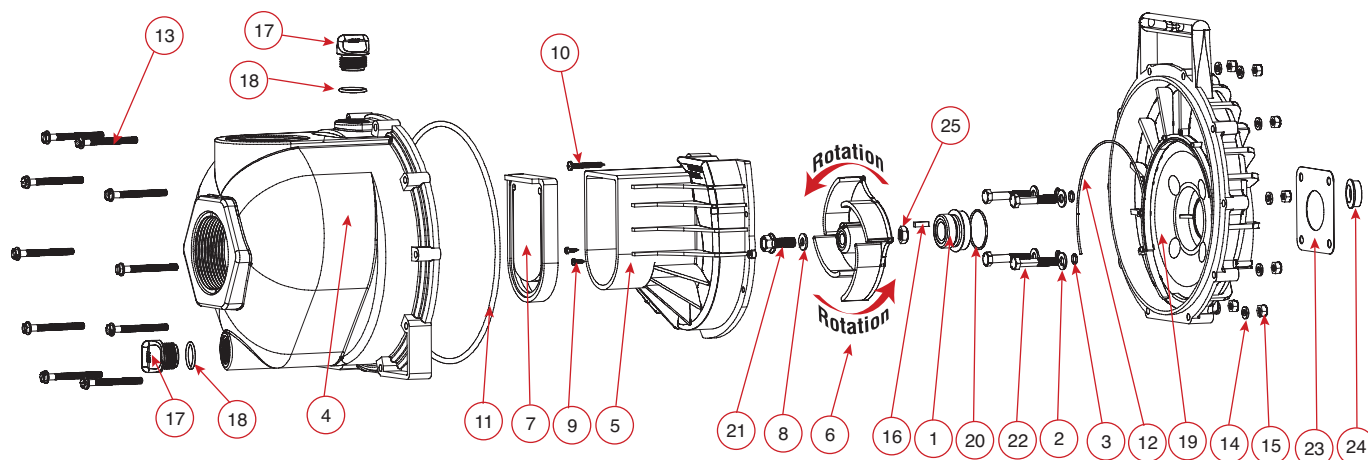
**DO NOT USE WITH FLAMMABLE LIQUIDS.**

**NOTE:** Engine warranty service available at authorized Briggs & Stratton and Honda dealers.

FLOW CHART





**REPLACEMENT PARTS 3" POLY PUMPS**

| ITEM | PART NO | DESCRIPTION                                          | QTY | PRICE    |
|------|---------|------------------------------------------------------|-----|----------|
| 1    | 12713   | Seal Assembly                                        | 1   | \$43.86  |
| 1    | 12713V  | FKM (viton type) Seal Assembly w/316 SS Cup & Spring | 1   | \$70.72  |
| 2    | 12901   | SS Rear Bracket Washer                               | 4   | \$0.44   |
| 3    | 12717   | O-Ring for Screw Head                                | 4   | \$0.66   |
| 3    | 12717V  | FKM (viton type) O-Ring for Screw Head               | 4   | \$1.02   |
| 4    | 13712   | Body Assembly                                        | 1   | \$184.18 |
| 5    | 13702   | Poly Pump Volute                                     | 1   | \$70.72  |
| 6    | 13771   | 4 Vane Impeller                                      | 1   | \$55.98  |
| 7    | 12705   | Check Valve                                          | 1   | \$15.16  |
| 7    | 12705V  | FKM (viton type) Pump Check Valve                    | 1   | \$106.81 |
| 8    | 12774VA | Impeller Bolt Gasket                                 | 1   | \$1.39   |
| 9    | 12900   | SS Upper Volute Screw                                | 4   | \$1.47   |
| 10   | 12725   | SS Volute Screws                                     | 2   | \$3.30   |
| 11   | 12719A  | Body O-Ring                                          | 1   | \$13.26  |
| 11   | 12719AV | FKM (viton type) Body O-Ring                         | 8   | \$61.14  |
| 12   | 12754   | O-Ring Segment                                       | 1   | \$5.15   |
| 12   | 12754V  | FKM (viton type) O-Ring Segment                      | 1   | \$8.92   |
| 13   | 12720   | SS Body Screws                                       | 10  | \$3.30   |
| 14   | V07018  | SS Lock Washers                                      | 10  | \$0.42   |
| 15   | V07019  | SS Body Nuts                                         | 10  | \$0.42   |

**REPLACEMENT PARTS 3" POLY PUMPS**

| ITEM | PART NO | DESCRIPTION                                                                               | QTY | PRICE    |
|------|---------|-------------------------------------------------------------------------------------------|-----|----------|
| 16   | 12902A  | Impeller Key                                                                              | 1   | \$1.55   |
| 17   | 13777   | Prime/Drain Plug                                                                          | 2   | \$2.95   |
| 18   | 13778   | Prime/Drain Plug O-Ring                                                                   | 2   | \$1.86   |
| 18   | 13778V  | FKM (viton type) Prime/Drain Plug O-Ring                                                  | 2   | \$2.60   |
| 19   | 12703A  | Poly Pump Rear Bracket                                                                    | 1   | \$87.65  |
| 20   | 12710   | O-Ring for Seal Assembly                                                                  | 1   | \$3.24   |
| 20   | 12710V  | FKM (viton type) O-Ring for Seal Assembly                                                 | 1   | \$9.59   |
| 21   | 12765A  | SS Impeller Bolt $\frac{5}{16}$ x 24 x 1.12 (300PH-6)                                     | 1   | \$16.59  |
| 21   | 13765   | SS Impeller Bolt $\frac{3}{8}$ x 24 x 1.75 (300P11PRO)                                    | 1   | \$16.59  |
| 22   | 12715A  | SS Bracket Screws                                                                         | 4   | \$3.69   |
| 23   | 15751   | Rear Bracket Shim                                                                         | 1   | \$3.08   |
| 24   | 12716   | Poly Pump Slinger                                                                         | 1   | \$5.15   |
| 25   | 12775A  | Impeller Hex Nut                                                                          | 1   | \$13.26  |
| N/S  | 12882A  | Bearing Pedestal                                                                          | 1   | \$213.64 |
| N/S  | 12099   | $\frac{7}{16}$ "-14 x 1.25" HHCS                                                          | 1   | \$2.95   |
| N/S  | 13000   | 4 Vane Impeller Repair Kit (Items 1, 3, 6-8, 11, 12, 18, 20, 24 & 12099)                  | 1   | \$141.45 |
| N/S  | 13000V  | 4 Vane Impeller FKM (viton type) Repair Kit (Items 1, 3, 6-8, 11, 12, 18, 20, 24 & 12099) | 1   | \$240.90 |
| N/S  | 13999   | Pump Seal/O-Ring Kit (Items 1, 3, 8, 11, 12, 18, 20, 24 & 12099)                          | 1   | \$70.72  |
| N/S  | 13999V  | FKM(viton type) Pump Seal/O-Ring Kit (Items 1, 3, 8, 11, 12, 18, 20, 24 & 12099)          | 1   | \$113.30 |

# 3" Polypropylene Hydraulic Centrifugal Pump Hydraulic Driven Self-Priming Poly Pump

## HYDRAULIC MOTOR

- Hydraulic fluid capacity  
Minimum 6 gallons / Maximum 10 gallons.
- 12 H.P. Motor.
- Open or closed system.
- 3600 RPM.

**CAUTION-WARNING:** Please do not run pump dry, restrict or reduce port sizes, or dead head pump. This could cause component failure to pump.

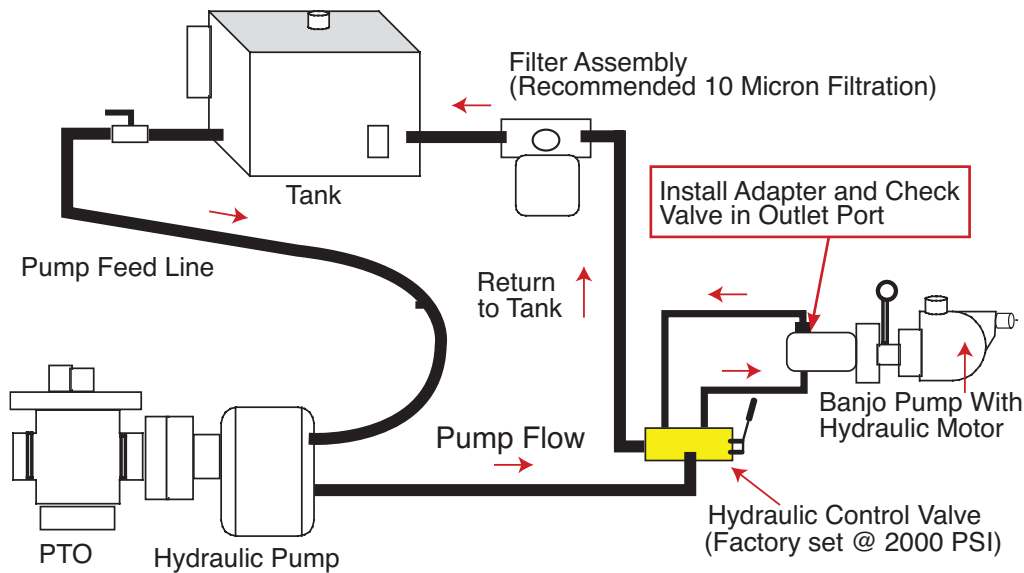
**DO NOT USE WITH FLAMMABLE LIQUIDS.**



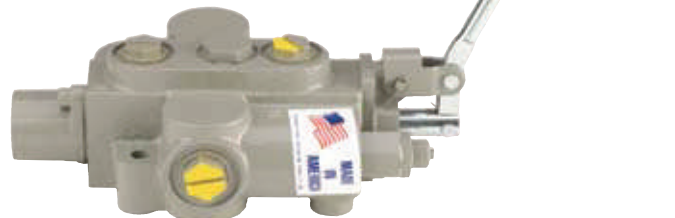
## 3" POLY HYDRAULIC PUMPS

| PART NO | DESCRIPTION                          | HP | QTY | PRICE      |
|---------|--------------------------------------|----|-----|------------|
| 300PHY  | 3" Poly Pump w/12 HP Hydraulic Motor | 12 | 1   | \$1,911.24 |

## SPOOL VALVE ASSEMBLY DIAGRAM



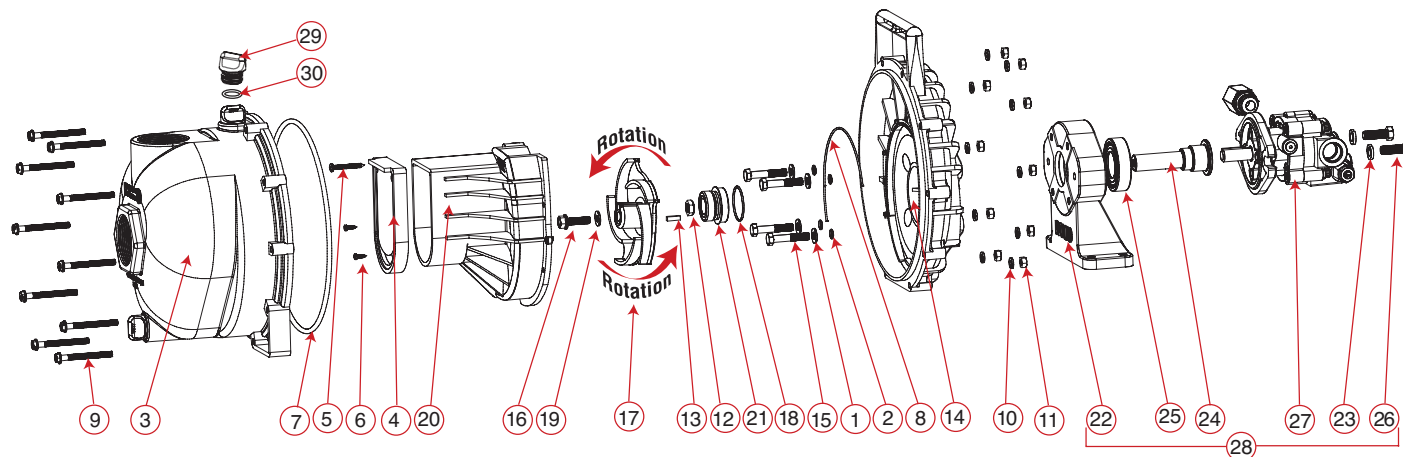
**Recommendation:**  
We recommend using the motor spool control valve or a suitable equivalent. The lack of such a valve in this circuit may cause failure to the hydraulic motor.



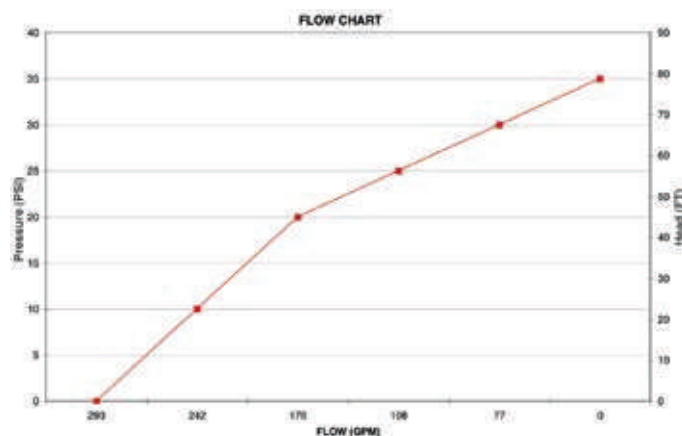
## HYDRAULIC MOTOR SPOOL VALVE

| PART NO | DESCRIPTION                 | HP  | QTY | PRICE    |
|---------|-----------------------------|-----|-----|----------|
| HSV1000 | Hydraulic Motor Spool Valve | N/A | 1   | \$649.23 |





| HYDRAULIC MOTOR DATA                                                                                                                               |                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| U.S. Gallons/Rev.                                                                                                                                  | 0.0025                     |
| Cubic Inches/Rev.                                                                                                                                  | 0.580                      |
| Liters/Rev.                                                                                                                                        | 0.0097                     |
| Max Hydraulic Pressure                                                                                                                             | 2000 PSI                   |
| Min Hydraulic Pressure                                                                                                                             | 200 PSI                    |
| Inlet Port                                                                                                                                         | SAE 10 (7/8-14 UNF-2B)     |
| Outlet Port                                                                                                                                        | SAE 10 (7/8-14 UNF-2B)     |
| Minimum GPM Required                                                                                                                               | 6 GPM 2400 RPM             |
| Maximum GPM Required                                                                                                                               | 10 GPM 4000 RPM            |
| Ideal GPM Required                                                                                                                                 | 9 GPM 3600 RPM             |
| CONNECTION INFORMATION                                                                                                                             |                            |
| Inlet                                                                                                                                              | "A" Port                   |
| Outlet                                                                                                                                             | "B" Port                   |
| Supplied check valve is to ensure proper rotation of the Banjo pump. Place check valve in outlet port (marked "B") for proper right hand rotation. |                            |
| SPOOL VALVE INFORMATION                                                                                                                            |                            |
| Required Outlet Flow                                                                                                                               | Min 6 GPM / Max 10 GPM     |
| Required System Pressure                                                                                                                           | Min 600 PSI / Max 3000 PSI |



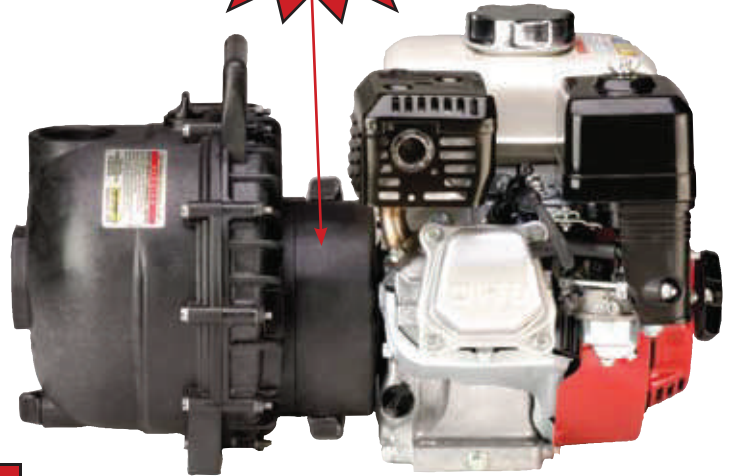
**NOTE:** See page 132 for complete pumps equipped with FKM (viton type) elastomers.

| REPLACEMENT PARTS 3" POLY PUMPS W/ HYDRAULIC ADAPTER |         |                                           |     |            |
|------------------------------------------------------|---------|-------------------------------------------|-----|------------|
| ITEM                                                 | PART NO | DESCRIPTION                               | QTY | PRICE      |
| 1                                                    | 12901   | SS Rear Bracket Washer                    | 4   | \$0.44     |
| 2                                                    | 12717   | O-Ring for Screw Heads                    | 4   | \$0.66     |
| 2                                                    | 12717V  | FKM (viton type) O-Ring for Screw Heads   | 4   | \$1.02     |
| 3                                                    | 13712   | Body Assembly                             | 1   | \$184.18   |
| 4                                                    | 12705   | Check Valve                               | 1   | \$15.16    |
| 4                                                    | 12705V  | FKM (viton type) Pump Check Valve         | 1   | \$106.81   |
| 5                                                    | 12900   | SS Upper Volute Screw                     | 4   | \$1.47     |
| 6                                                    | 12725   | SS Volute Screws                          | 2   | \$3.30     |
| 7                                                    | 12719A  | Body O-Ring                               | 1   | \$13.26    |
| 8                                                    | 12754   | O-Ring Segment                            | 1   | \$5.15     |
| 8                                                    | 12754V  | FKM (viton type) O-Ring Segment           | 1   | \$8.92     |
| 9                                                    | 12720   | SS Body Screws                            | 10  | \$3.30     |
| 10                                                   | V07018  | SS Lock Washers                           | 10  | \$0.42     |
| 11                                                   | V07019  | SS Body Nuts                              | 10  | \$0.42     |
| 12                                                   | 12775A  | Impeller Hex Nut                          | 1   | \$13.26    |
| 13                                                   | 12902A  | Impeller Key                              | 1   | \$1.55     |
| 14                                                   | 12703A  | Poly Pump Rear Bracket                    | 1   | \$87.65    |
| 15                                                   | 12715A  | 5/16"-24 x 1.75" HHCS                     | 4   | \$3.69     |
| 16                                                   | 12765A  | SS Impeller Bolt                          | 1   | \$16.59    |
| 17                                                   | 13771   | 4 Vane Impeller                           | 1   | \$55.98    |
| 18                                                   | 12710   | O-Ring for Seal Assembly                  | 1   | \$3.24     |
| 18                                                   | 12710V  | FKM (viton type) O-Ring for Seal Assembly | 1   | \$9.59     |
| 19                                                   | 12774VA | Impeller Bolt Gasket                      | 1   | \$1.39     |
| 20                                                   | 13702   | Poly Pump Volute                          | 1   | \$70.72    |
| 21                                                   | 12713   | Mechanical Seal Assembly                  | 1   | \$43.86    |
| 22                                                   | 12049B  | Hydraulic Pedestal Housing                | 1   | \$150.27   |
| 23                                                   | V20018  | 3/8" Lock Washer                          | 2   | \$0.42     |
| 24                                                   | 12055B  | Adapter Shaft                             | 1   | \$120.21   |
| 25                                                   | 17056   | Bearing                                   | 1   | \$41.73    |
| 26                                                   | 18010SS | 3/8"-16 x 1.25" HHCS                      | 2   | \$1.86     |
| 27                                                   | HY1013  | Hydraulic Motor                           | 1   | \$1,264.49 |
| 28                                                   | 12600B  | Complete Hydraulic Assembly               | 1   | \$1,397.56 |
| 29                                                   | 13777   | Drain Plug                                | 2   | \$2.95     |
| 30                                                   | 13778   | O-Ring for Drain Plug                     | 2   | \$1.86     |

# 2" Poly Wet Seal Self-Priming Centrifugal Pump

## FEATURES

- New Compact Design!
- Run Dry Capability!
- Double seal contained in ethylene glycol reservoir. Carbon Ceramic seal faces with stainless steel cup & spring with FKM (viton type) rubber.
- Pump end separated from engine.
- Large weep holes between pump end and engine.
- "V" shaped for quicker priming.



## 2" POLY WET SEAL PUMPS W/GAS ENGINES

| PART NO   | DESCRIPTION                                                         | HP  | QTY | PRICE      |
|-----------|---------------------------------------------------------------------|-----|-----|------------|
| 200PH5W   | 2" Poly Wet Seal Pump w/5.5 HP Honda® Engine                        | 5.5 | 1   | \$2,144.96 |
| 200P6PROW | 2" Poly Wet Seal Pump w/6.5 HP Briggs & Stratton® Engine Pro Series | 6.5 | 1   | \$1,351.62 |

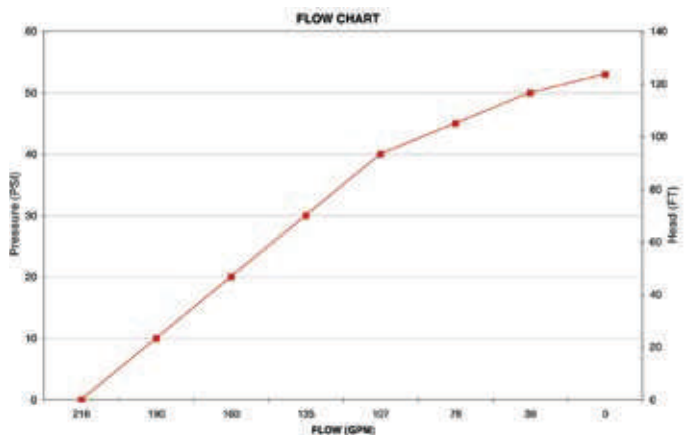
## 2" POLY WET SEAL BEARING PEDESTAL

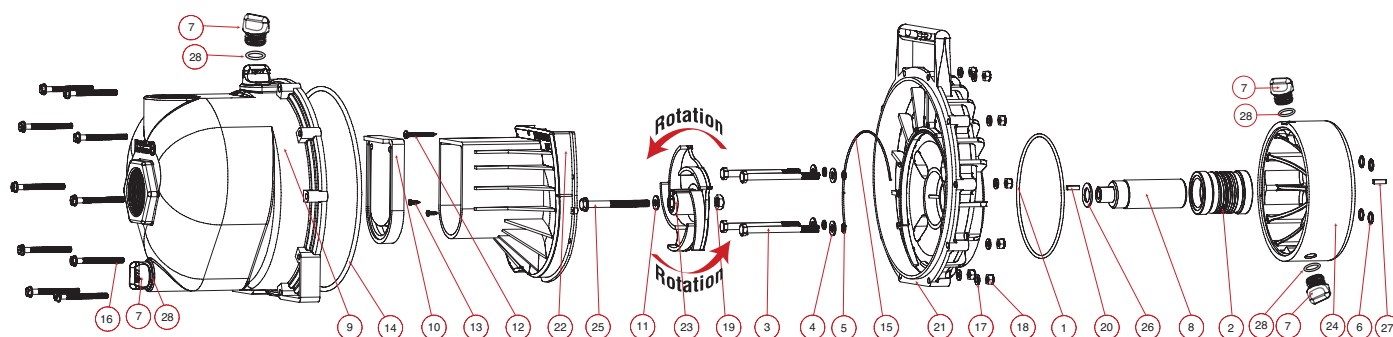
| PART NO | DESCRIPTION                                                       | HP  | QTY | PRICE    |
|---------|-------------------------------------------------------------------|-----|-----|----------|
| 200PBW  | 2" Poly Wet Seal Bearing Pedestal w/ 3/4" Shaft & 5 Vane Impeller | N/A | 1   | \$946.97 |



Bearing Pedestal  
3/4" shaft for electric motors

DO NOT USE WITH FLAMMABLE LIQUIDS.



**REPLACEMENT PARTS 2" POLY WET SEAL PUMPS**

| ITEM | PART NO | DESCRIPTION                               | QTY | PRICE    |
|------|---------|-------------------------------------------|-----|----------|
| 1    | 13719   | O-Ring                                    | 1   | \$2.64   |
| 2    | 15035   | FKM (viton type) Mechanical Seal Assembly | 1   | \$222.14 |
| 3    | 12034   | 5/16" -24 x 3 3/4" HHCS                   | 4   | \$8.52   |
| 4    | 12901   | 5/16" Flat Washer                         | 4   | \$0.44   |
| 5    | 12717   | O-Ring for Bracket Screw                  | 4   | \$0.66   |
| 6    | 12709   | O-Ring                                    | 4   | \$0.70   |
| 7    | 12777   | Drain Plug                                | 4   | \$2.24   |
| 8    | 12155   | Adapter Shaft                             | 1   | \$129.29 |
| 9    | 12712A  | Body Assembly                             | 1   | \$141.45 |
| 10   | 12705   | Check Valve                               | 1   | \$15.16  |
| 11   | 12774VA | Impeller Bolt Gasket                      | 1   | \$1.39   |
| 12   | 12900   | #10 x 1 1/2" PPH SMS                      | 1   | \$1.47   |
| 13   | 12725   | #6 x 1 1/2" PPH SMS                       | 2   | \$3.30   |
| 14   | 12719A  | Body O-Ring                               | 1   | \$13.26  |

**REPLACEMENT PARTS 2" POLY WET SEAL PUMPS**

| ITEM | PART NO | DESCRIPTION                    | QTY | PRICE   |
|------|---------|--------------------------------|-----|---------|
| 15   | 12754   | O-Ring Segment                 | 1   | \$5.15  |
| 16   | 12720   | 1/4" - 20 x 2 1/2" SI Ind HWHS | 10  | \$3.30  |
| 17   | V07018  | 1/4" Lock Washer               | 10  | \$0.42  |
| 18   | V07019  | 1/4" - 20 Hex Nut              | 10  | \$0.42  |
| 19   | 12775A  | 7/16" - 14 Hex Nut             | 1   | \$13.26 |
| 20   | 12902A  | 3/16" SQ. x 5/8" Key           | 2   | \$1.55  |
| 21   | 12707W  | Wet Seal Rear Bracket          | 1   | \$69.35 |
| 22   | 12702A  | Volute                         | 1   | \$64.53 |
| 23   | 12772   | Impeller                       | 1   | \$41.99 |
| 24   | 12202W  | Wet Seal Reservoir             | 1   | \$81.10 |
| 25   | 12766   | 5/16" - 24 x 3 1/4" HFS        | 1   | \$6.47  |
| 26   | CV10175 | Gasket                         | 1   | \$1.30  |
| 27   | 16901   | 1/4" SQ. 3/4" Key Stock        | 1   | \$3.08  |
| 28   | UV15163 | O-Ring for Drain Plug          | 4   | \$0.44  |



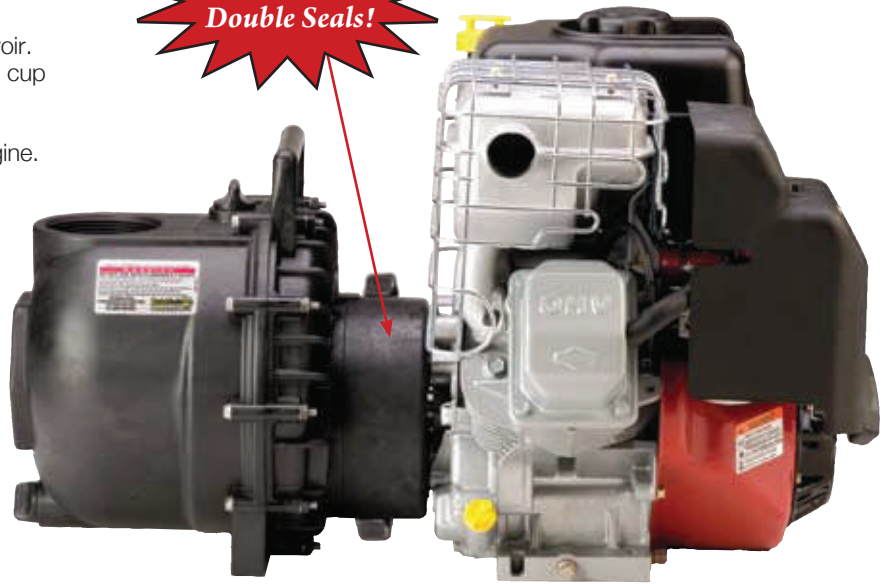
# 3" Poly Wet Seal Self-Priming Centrifugal Pump

## FEATURES

- New Compact Design!
- Run Dry Capability!
- Double seal contained in ethylene glycol reservoir. Carbon Ceramic seal faces with stainless steel cup & spring with FKM (viton type) rubber.
- Pump end separated from engine.
- Large weep holes between pump end and engine.
- "V" shaped for quicker priming.

**NEW!**  
**Seal Reservoir**  
**Double Seals!**

**Run Dry**  
**Capability!**



## 3" POLY WET SEAL PUMPS W/GAS ENGINES

| PART NO    | DESCRIPTION                                                              | HP  | QTY | PRICE      |
|------------|--------------------------------------------------------------------------|-----|-----|------------|
| 300PH6W    | 3" Poly Wet Seal Pump w/6.0 HP Honda® Engine                             | 6.0 | 1   | \$2,427.04 |
| 300PH11W   | 3" Poly Wet Seal Pump w/11 HP Honda® Engine w/Electric Start & Pull Rope | 11  | 1   | \$3,649.09 |
| 300P6PROW  | 3" Poly Wet Seal Pump w/6.0 HP Briggs & Stratton® Engine Pro Series      | 6.0 | 1   | \$1,648.15 |
| 300P11PROW | 3" Poly Wet Seal Pump w/11 HP Briggs&Stratton® Engine Pro Series         | 11  | 1   | \$2,468.18 |

Truck shipments only.

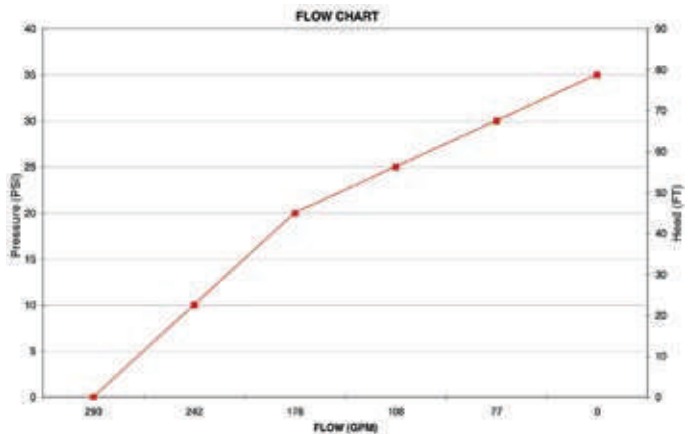
## 3" POLY WET SEAL BEARING PEDESTAL

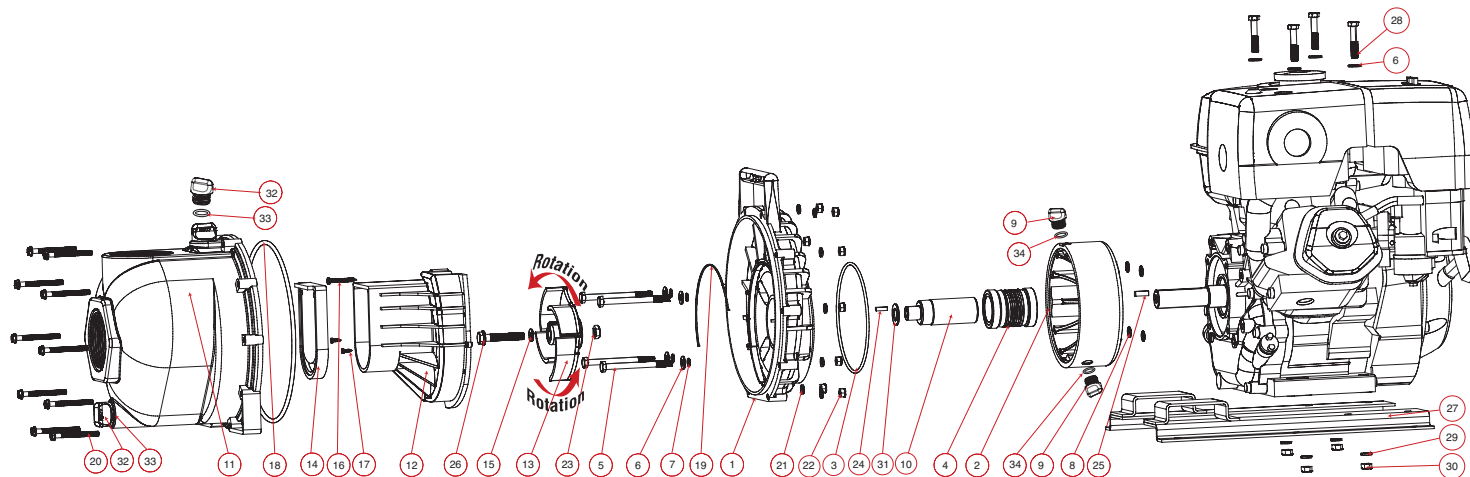
| PART NO | DESCRIPTION                                                       | HP  | QTY | PRICE      |
|---------|-------------------------------------------------------------------|-----|-----|------------|
| 300PBW  | 3" Poly Wet Seal Bearing Pedestal w/ 3/4" Shaft & 4 Vane Impeller | N/A | 1   | \$1,381.00 |



Bearing Pedestal  
3/4" shaft for electric motors

**DO NOT USE WITH FLAMMABLE LIQUIDS.**



**REPLACEMENT PARTS 3" POLY WET SEAL PUMPS**

| ITEM | PART NO | DESCRIPTION                                                                                  | QTY | PRICE    |
|------|---------|----------------------------------------------------------------------------------------------|-----|----------|
| 1    | 12703AW | Wet Seal Rear Bracket for 11 HP Honda® Engine & 11 HP Briggs & Stratton® Engine              | 1   | \$94.03  |
| 1    | 12707W  | Wet Seal Rear Bracket for 6 HP Honda® Engine & 6 HP Briggs & Stratton® Engine                | 1   | \$69.35  |
| 2    | 12201W  | Wet Seal Reservoir for 11 HP Honda® Engine & 11 HP Briggs & Stratton® Engine                 | 1   | \$69.17  |
| 2    | 12202W  | Wet Seal Reservoir for 6 HP Honda® Engine, 6 HP Briggs & Stratton® Engine & Bearing Pedestal | 1   | \$81.10  |
| 3    | 13719   | O-Ring                                                                                       | 1   | \$2.64   |
| 4    | 15035   | Mechanical Seal Assembly                                                                     | 1   | \$222.14 |
| 5    | 12034   | 5/16" - 24 x 3 3/4" HHCS                                                                     | 4   | \$8.52   |
| 6    | 12901   | 5/16" Flat Washer                                                                            | 8   | \$0.44   |
| 7    | 12717   | O-Ring for Bracket Screw                                                                     | 4   | \$0.66   |
| 8    | 12709   | O-Ring                                                                                       | 4   | \$0.70   |
| 9    | 12777   | Drain Plug                                                                                   | 2   | \$2.24   |
| 10   | 13055   | Adapter Shaft for 11 HP Honda® Engine & 11 HP Briggs & Stratton® Engine                      | 1   | \$109.70 |
| 10   | 12155   | Adapter Shaft for 6 HP Honda® Engine, 6 HP Briggs & Stratton® Engine & Bearing Pedestal      | 1   | \$129.29 |
| 11   | 13712   | Body Assembly                                                                                | 1   | \$184.18 |
| 12   | 13702   | Volute                                                                                       | 1   | \$70.72  |
| 13   | 13772   | Impeller                                                                                     | 1   | \$55.98  |
| 14   | 12705   | Check Valve                                                                                  | 1   | \$15.16  |
| 15   | 12774VA | Impeller Bolt Gasket                                                                         | 1   | \$1.39   |
| 16   | 12900   | #10 x 1 1/2" PPH SMS 18-8 SS                                                                 | 1   | \$1.47   |

**REPLACEMENT PARTS 3" POLY WET SEAL PUMPS**

| ITEM | PART NO | DESCRIPTION                                                                      | QTY | PRICE   |
|------|---------|----------------------------------------------------------------------------------|-----|---------|
| 17   | 12725   | #6 x 1/2" PPH SMS 18-8 SS                                                        | 1   | \$3.30  |
| 18   | 12719A  | Body O-Ring                                                                      | 1   | \$13.26 |
| 19   | 12754   | O-Ring Segment                                                                   | 1   | \$5.15  |
| 20   | 12720   | 1/4" - 20 x 2 1/2" SI Ind HWHS                                                   | 10  | \$3.30  |
| 21   | V07018  | 1/4" Lock Washer                                                                 | 10  | \$0.42  |
| 22   | V07019  | 1/4" - 20 Hex Nut                                                                | 10  | \$0.42  |
| 23   | 12775A  | 7/16" - 14 Hex Nut                                                               | 1   | \$13.26 |
| 24   | 12902A  | 3/16" SQ. x 5/8" Key                                                             | 1   | \$1.55  |
| 25   | 16901   | 1/4" SQ. 3/4" Key Stock                                                          | 1   | \$3.08  |
| 26   | 13766   | 3/8" - 24 x 2 1/4" HFS for 11 HP Honda® Engine & 11 HP Briggs & Stratton® Engine | 1   | \$3.64  |
| 26   | 12766   | 5/16" - 24 x 3 1/4" HFS for 6 HP Honda® Engine & 6 HP Briggs & Stratton® Engine  | 1   | \$6.47  |
| 27   | 18135A  | Z-Rail                                                                           | 1   | \$21.87 |
| 27   | 18135B  | Z-Rail                                                                           | 1   | \$21.87 |
| 28   | 17029   | 5/16" - 18 x 1.75" HHCS                                                          | 4   | \$1.17  |
| 29   | V10118  | 5/16" Lock Washer                                                                | 4   | \$0.42  |
| 30   | V10119  | 5/16" - 18 UNC SS Hexnut                                                         | 4   | \$0.56  |
| 31   | CV10175 | Gasket                                                                           | 1   | \$1.30  |
| 32   | 13777   | Drain Plug                                                                       | 2   | \$2.95  |
| 33   | 13778   | O-Ring                                                                           | 2   | \$1.86  |
| 34   | UV15163 | O-Ring                                                                           | 2   | \$0.44  |

# 2" Cast Iron 222 Series Self-Priming Series Pump

## PUMP FEATURES

- Cast iron construction for rugged dependable service.
- Carbon ceramic seal with stainless steel cup and spring with FKM (viton type) rubber.
- Replaceable inlet and outlet flanges.
- Dynamically balanced impeller.
- Pump end separated from engine.
- Heavy duty slinger seal on motor shaft.
- Large weep holes between pump end and engine.
- "V" Shaped for quicker priming.



## 6.5 BRIGGS & STRATTON INTEK MOTOR FEATURES (RIGHT)

- Cast iron cylinder sleeve.
- Heavy duty flywheel.
- Overhead valve.
- High oil fill
- Oil Guard® low oil sensor.
- Breather through air cleaner.

## HONDA ENGINE FEATURES (BELOW)

- GX Series commercial grade.
- Legendary reliability/durability.
- Powerful Overhead Valve (OHV).
- 2-year commercial and homeowner warranty.
- Industrial 2-stage air filter.
- Quiet, easy starting.
- Oil alert.



## 222 SERIES CAST IRON PUMPS W/GAS ENGINES

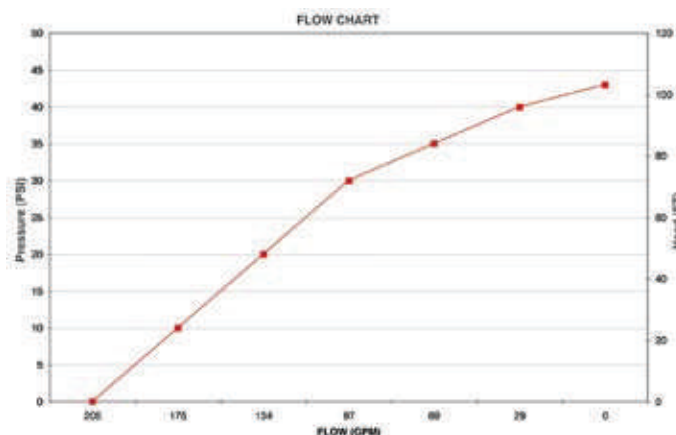
| PART NO   | DESCRIPTION                                                     | HP  | QTY | PRICE      |
|-----------|-----------------------------------------------------------------|-----|-----|------------|
| 222PIH5   | 2" Cast Iron Pump w/5.5 HP Honda® Engine                        | 5.5 | 1   | \$2,351.60 |
| 222PIH6   | 2" Cast Iron Pump w/6.5 HP Honda® Engine                        | 6.5 | 1   | \$2,526.19 |
| 222PIH5E  | 2" Cast Iron Pump w/5.5 HP Honda® Engine w/ Electric Start      | 5.5 | 1   | \$3,148.85 |
| 222PI6PRO | 2" Cast Iron Pump w/6.5 HP Briggs & Stratton® Engine Pro Series | 6.5 | 1   | \$1,463.29 |

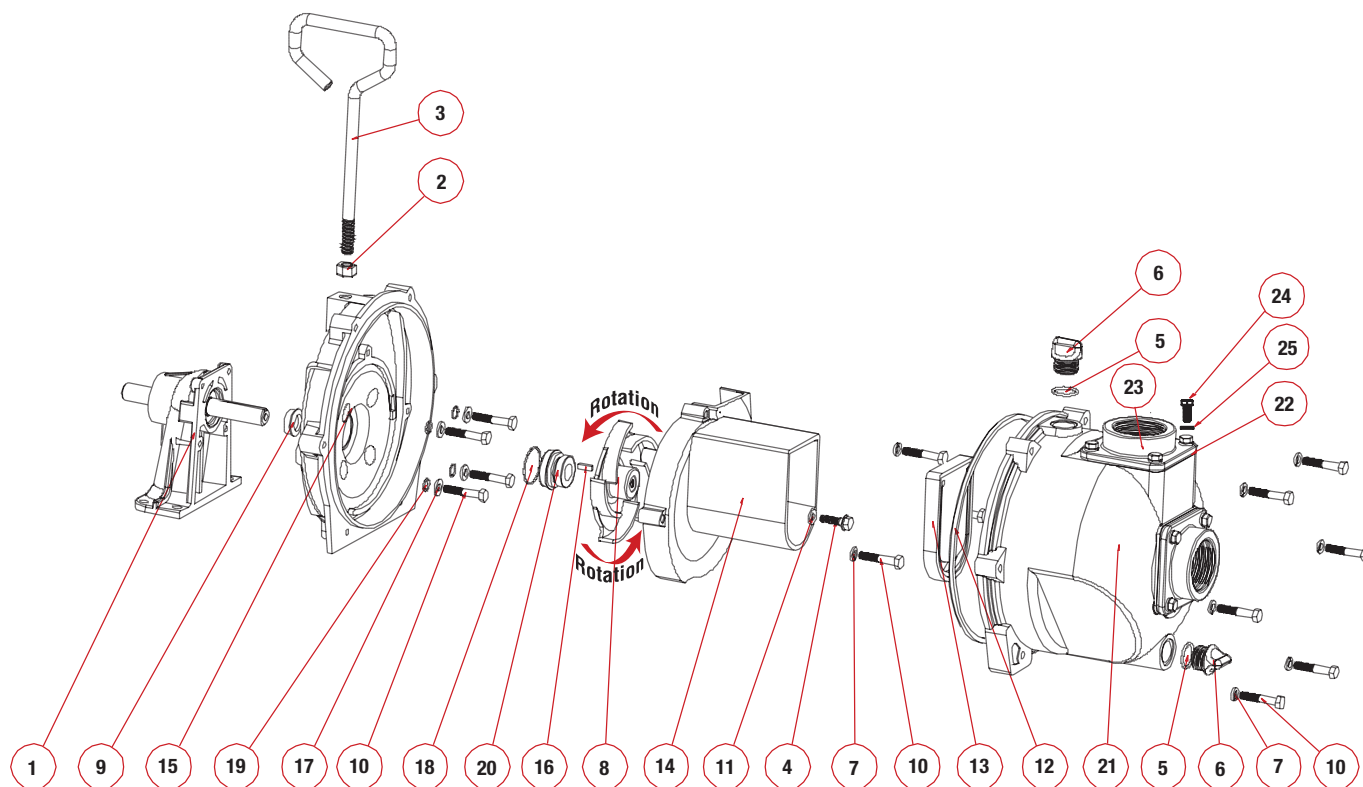
**CAUTION-WARNING:** Please do not run pump dry, restrict or reduce port sizes, or dead head pump. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**

**NOTE:** Engine warranty service available at authorized Briggs & Stratton and Honda dealers.

**SHIPPING:** Truck shipments only.



**REPLACEMENT PARTS 222 CAST IRON PUMPS W/GAS ENGINES**

| ITEM | PART NO | DESCRIPTION                     | QTY | PRICE      |
|------|---------|---------------------------------|-----|------------|
| 1    | 12882A  | Bearing Pedestal Assembly       | 1   | \$213.64   |
| 1    | 12600B  | Hydraulic Pedestal Assembly     | 1   | \$1,397.56 |
| 2    | 17010   | 1/2" Jam Nut                    | 1   | \$1.17     |
| 3    | 15022   | Handle                          | 1   | \$11.59    |
| 4    | 12765A  | 5/16" - 24 x 1.12 Impeller Bolt | 1   | \$16.59    |
| 5    | 13778   | O-Ring                          | 2   | \$1.86     |
| 6    | 13777   | Prime/Drain Plug                | 2   | \$2.95     |
| 7    | V10118  | 5/16" Lock Washer               | 9   | \$0.42     |
| 8    | 15772   | 5 Vane Impeller                 | 1   | \$64.89    |
| 9    | 12716   | Pump Slinger                    | 1   | \$5.15     |
| 10   | 12715A  | 5/16" - 24 x 1.75 HHCS          | 13  | \$3.69     |
| 11   | 12774VA | Impeller Bolt Gasket            | 1   | \$1.39     |
| 12   | 12719A  | Body O-Ring                     | 1   | \$13.26    |
| 13   | 12705   | Check Valve                     | 1   | \$15.16    |
| 14   | 15702   | Volute                          | 1   | \$99.66    |
| 15   | 15703   | Rear Bracket                    | 1   | \$116.66   |
| 16   | 12902A  | 3/16" sq x 5/8" Key             | 1   | \$1.55     |
| 17   | 12901   | 5/16" Flat Washer               | 4   | \$0.44     |
| 18   | 12710   | O-Ring                          | 1   | \$3.24     |

**REPLACEMENT PARTS 222 CAST IRON PUMPS W/GAS ENGINES**

| ITEM | PART NO | DESCRIPTION                                                 | QTY | PRICE    |
|------|---------|-------------------------------------------------------------|-----|----------|
| 19   | 12717   | O-Ring                                                      | 4   | \$0.66   |
| 20   | 12713V  | Seal Assembly                                               | 1   | \$70.72  |
| 20   | 12713SD | Severe Duty Seal                                            | 1   | \$359.43 |
| 21   | 15712   | Body                                                        | 1   | \$200.87 |
| 22   | 17013   | Flange Gasket                                               | 2   | \$6.10   |
| 23   | 17000   | Threaded Flange                                             | 2   | \$23.95  |
| 24   | 17019   | 5/16" - 18 x 0.75 HHCS                                      | 8   | \$1.17   |
| 25   | V10118  | 5/16" Lock Washer                                           | 8   | \$0.42   |
| N/S  | 12099   | 7/16"-14 x 1.25" HHCS                                       | 1   | \$2.95   |
| N/S  | 15751   | Bracket Shim                                                | 1   | \$3.08   |
| N/S  | 15752   | Impeller Shim                                               | 1   | \$1.55   |
| N/S  | 17033   | Z-Rails                                                     | 1pr | \$27.83  |
| N/S  | 17034   | 5/16" - 18 x 1 3/4" Zinc Plated                             | 4   | \$0.76   |
| N/S  | V10119  | 5/16" -18 Hex Nut                                           | 4   | \$0.56   |
| N/S  | V10118  | 5/16" Lock Washer                                           | 4   | \$0.42   |
| N/S  | 15000   | Repair Kit (Items 5, 8, 11-13, 18-20, 12099, 15751 & 15752) | 1   | \$137.52 |
| N/S  | 15000V  | FKM (viton type) Repair Kit                                 | 1   | \$247.22 |
| N/S  | 15999   | Seal Kit (Items 5, 11-13, 18-20, 12099, 15751 & 15752)      | 1   | \$81.13  |
| N/S  | 15999V  | FKM (viton type) Seal Kit                                   | 1   | \$109.67 |

NOTE: EPDM gaskets, seals and o-rings used in the following assemblies unless otherwise noted: 222PBI, 222PIHY, 222PI5, 222PIH5, 222POI. Pumps equipped with FKM (viton type) also available.



# 2" Cast Iron 222 Series Self-Priming Series Pump Pump Pedestal Pump(for Electric Motors) Pump Only(for Gasoline Engines)

## FEATURES

- Cast iron construction for rugged dependable service.
- Carbon ceramic seal with stainless steel cup and spring with FKM (viton type) rubber.
- Replaceable inlet and outlet flanges.
- Dynamically balanced impeller.

### 2" CAST IRON PEDESTAL PUMP

- Easily adaptable to electric motor (flexible coupling not included).
- 3/4" straight keyed shaft.



### 2" CAST IRON PUMP ONLY

- Comes complete and ready for attachment to gasoline engine (3/4" straight keyed shaft required).



| 222 CAST IRON BEARING PEDESTAL FOR ELECTRIC MOTORS |                                                            |     |     |            |  |
|----------------------------------------------------|------------------------------------------------------------|-----|-----|------------|--|
| PART NO                                            | DESCRIPTION                                                | HP  | QTY | PRICE      |  |
| 222PBI                                             | 2" Cast Iron Bearing Pedestal w/ 3/4" Shaft Straight Keyed | N/A | 1   | \$1,047.10 |  |

\* Recommended for use with 5 h.p. electric motor @ 3600 RPM.

| 222 CAST IRON PUMP ONLY FOR GAS ENGINES |                                            |     |     |          |  |
|-----------------------------------------|--------------------------------------------|-----|-----|----------|--|
| PART NO                                 | DESCRIPTION                                | HP  | QTY | PRICE    |  |
| 222POI                                  | 2" Cast Iron Pump Only w/ Full Impeller    | N/A | 1   | \$732.40 |  |
| 225POI*                                 | 2" Cast Iron Pump Only w/ Trimmed Impeller | N/A | 1   | \$733.86 |  |

\* 225POI Recommended for use with 10 pound per gallon material or more.

## 2" 222 Series Cast Iron Hydraulic Centrifugal Pump

### HYDRAULIC MOTOR:

- Hydraulic fluid capacity  
Minimum 6 Gallons /  
Maximum 10 Gallons.
- 12 H.P. Motor.
- Open or closed system.
- Minimum 500 P.S.I. /  
Maximum 2,000 P.S.I.

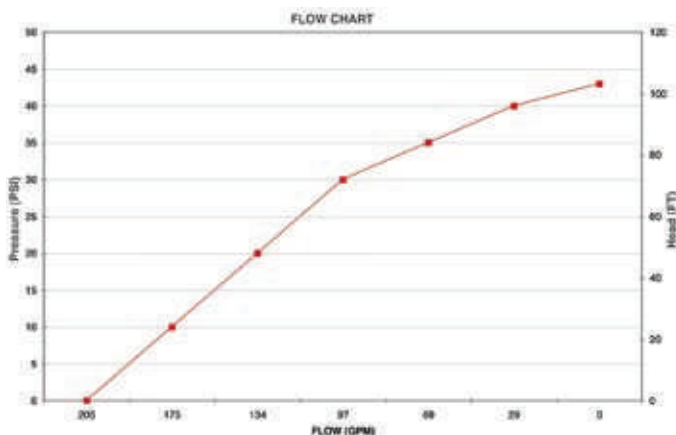


**CAUTION-WARNING:** Please do not run pump dry, restrict or reduce port sizes, or dead head pump. This could cause component failure to pump.

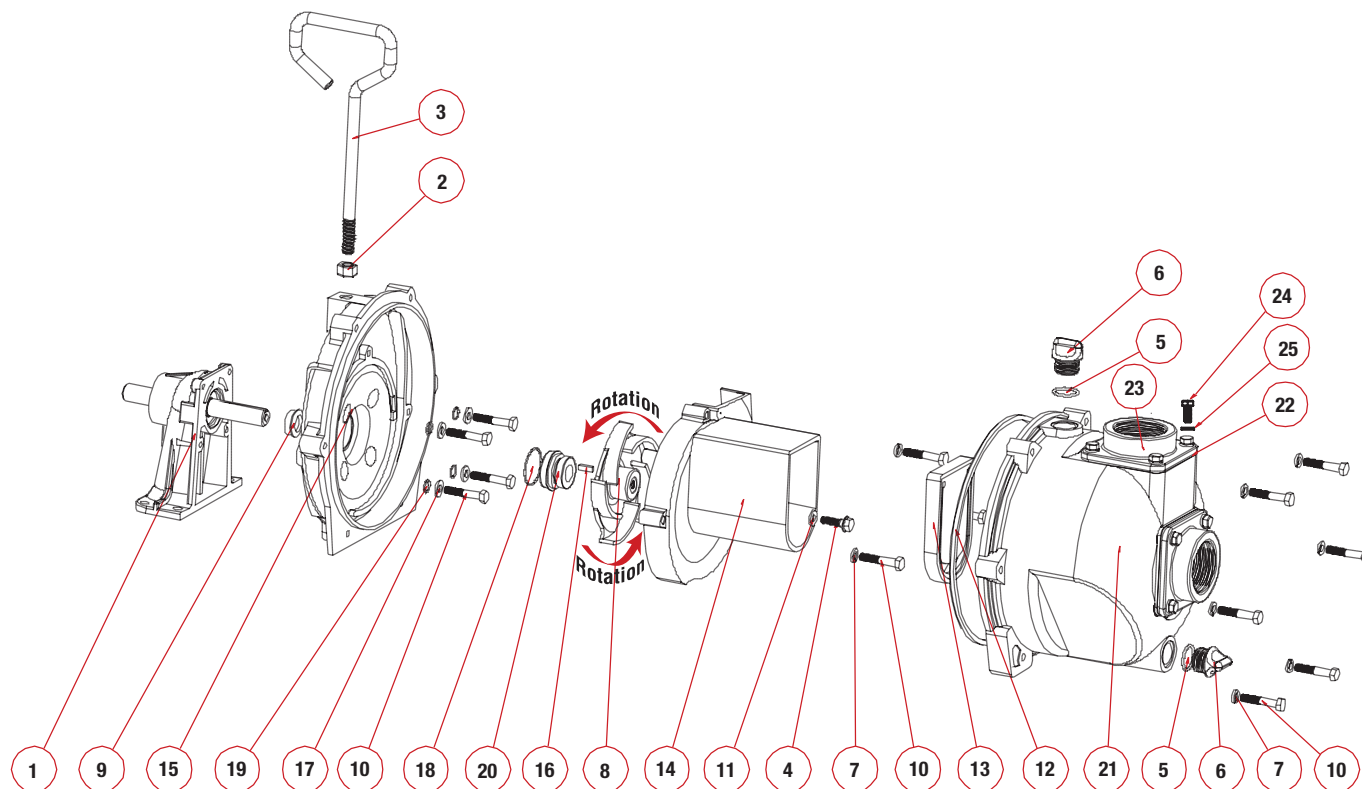
**DO NOT USE WITH FLAMMABLE LIQUIDS.**

\*See page 142 for recommended hydraulic spool valve.

| 222 CAST IRON HYDRAULIC PUMPS |                                           |    |     |            |  |
|-------------------------------|-------------------------------------------|----|-----|------------|--|
| PART NO                       | DESCRIPTION                               | HP | QTY | PRICE      |  |
| 222PIHY                       | 2" Cast Iron Pump w/12 HP Hydraulic Motor | 12 | 1   | \$2,214.68 |  |





**REPLACEMENT PARTS 222 SERIES CAST IRON PUMPS**

| ITEM | PART NO | DESCRIPTION                     | QTY | PRICE      |
|------|---------|---------------------------------|-----|------------|
| 1    | 12882A  | Bearing Pedestal Assembly       | 1   | \$213.64   |
| 1    | 12600B  | Hydraulic Pedestal Assembly     | 1   | \$1,397.56 |
| 2    | 17010   | 1/2" Jam Nut                    | 1   | \$1.17     |
| 3    | 15022   | Handle                          | 1   | \$11.59    |
| 4    | 12765A  | 5/16" - 24 x 1.12 Impeller Bolt | 1   | \$16.59    |
| 5    | 13778   | O-Ring                          | 2   | \$1.86     |
| 6    | 13777   | Prime/Drain Plug                | 2   | \$2.95     |
| 7    | V10118  | 5/16" Lock Washer               | 9   | \$0.42     |
| 8    | 15772   | 5 Vane Impeller                 | 1   | \$64.89    |
| 9    | 12716   | Pump Slinger                    | 1   | \$5.15     |
| 10   | 12715A  | 5/16" - 24 x 1.75 HHCS          | 13  | \$3.69     |
| 11   | 12774VA | Impeller Bolt Gasket            | 1   | \$1.39     |
| 12   | 12719A  | Body O-Ring                     | 1   | \$13.26    |
| 13   | 12705   | Check Valve                     | 1   | \$15.16    |
| 14   | 15702   | Volute                          | 1   | \$99.66    |
| 15   | 15703   | Rear Bracket                    | 1   | \$116.66   |
| 16   | 12902A  | 3/16" sq x 5/8" Impeller Key    | 1   | \$1.55     |
| 17   | 12901   | 5/16" Flat Washer               | 4   | \$0.44     |

**REPLACEMENT PARTS 222 SERIES CAST IRON PUMPS**

| ITEM | PART NO | DESCRIPTION                                                     | QTY | PRICE    |
|------|---------|-----------------------------------------------------------------|-----|----------|
| 18   | 12710   | O-Ring                                                          | 1   | \$3.24   |
| 19   | 12717   | O-Ring                                                          | 4   | \$0.66   |
| 20   | 12713V  | Seal Assembly                                                   | 1   | \$70.72  |
| 20   | 12713SD | Severe Duty Seal                                                | 1   | \$359.43 |
| 21   | 15712   | Body                                                            | 1   | \$200.87 |
| 22   | 17013   | Flange Outlet Gasket                                            | 2   | \$6.10   |
| 23   | 17000   | Threaded Flange                                                 | 1   | \$23.95  |
| N/S  | 12099   | 7/16"-14 x 1.25" HHCS                                           | 1   | \$2.95   |
| N/S  | 15751   | Bracket Shim                                                    | 1   | \$3.08   |
| N/S  | 15752   | Impeller Shim                                                   | 1   | \$1.55   |
| N/S  | 17033   | Z-Rails                                                         | 1pr | \$27.83  |
| N/S  | 17034   | 5/16" - 18 x 1 1/4" Zinc Plated                                 | 4   | \$0.76   |
| N/S  | V10119  | 5/16" - 18 Hex Nut                                              | 4   | \$0.56   |
| N/S  | V10118  | 5/16" Lock Washer                                               | 4   | \$0.42   |
| N/S  | 15000   | Repair Kit (Items 5, 8, 11-13, 18-20, 12099, 15751 & 15752)     | 1   | \$137.52 |
| N/S  | 15000V  | FKM (viton type) Repair Kit                                     | 1   | \$247.22 |
| N/S  | 15999   | Seal Kit Seal Kit (Items 5, 11-13, 18-20, 12099, 15751 & 15752) | 1   | \$81.13  |
| N/S  | 15999V  | FKM (viton type) Seal Kit                                       | 1   | \$109.67 |

NOTE: EPDM gaskets, seals and o-rings used in the following assemblies unless otherwise noted: 222PBI, 222PIHY, 222PI5, 222PIH5, 222POL. Pumps equipped with FKM (viton type) also available.

# 222 Series Close Coupled C/I Electric Driven Self-Priming Pumps

## FEATURES

- Cast iron construction for rugged dependable service.
- Stainless steel shaft sleeve to protect engine shaft.
- Carbon ceramic seal with stainless steel cup and spring with FKM (viton type) rubber.
- Replaceable inlet and outlet flanges.
- Dynamically balanced impeller.
- Pump end separated from engine.
- Heavy duty slinger seal on motor shaft.
- Large weep holes between pump end and engine.
- "V" shaped for quicker priming.

**CAUTION-WARNING:** Please do not run pumps dry, restrict or reduce port sizes or dead head pumps. This could cause component failure to pump. No Flammables.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**

**NOTE:** Truck shipments only. Motor warranty service available at authorized dealers.



## 222 SERIES CAST IRON PUMPS W/ELECTRIC MOTORS

| PART NO  | DESCRIPTION                                            | HP  | QTY | PRICE      |
|----------|--------------------------------------------------------|-----|-----|------------|
| 222PIE5  | 2" Cast Iron Pump w/5.0 HP Three Phase Electric Motor  | 5.0 | 1   | \$2,771.58 |
| 222PIE51 | 2" Cast Iron Pump w/5.0 HP Single Phase Electric Motor | 5.0 | 1   | \$3,377.99 |

## COMPLETE PUMP WITH EFFICIENT INDUSTRIAL ELECTRIC MOTORS!

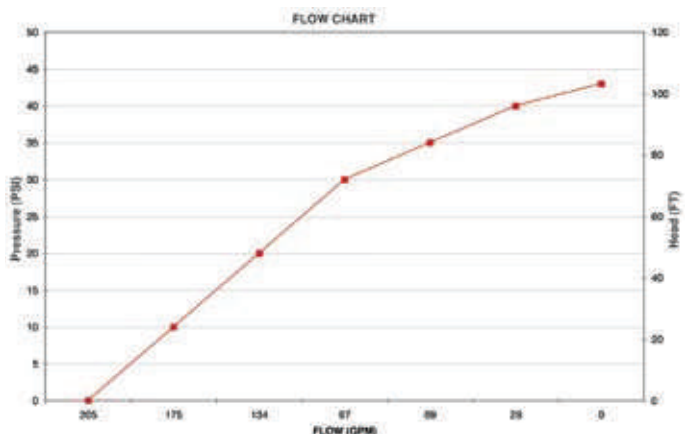
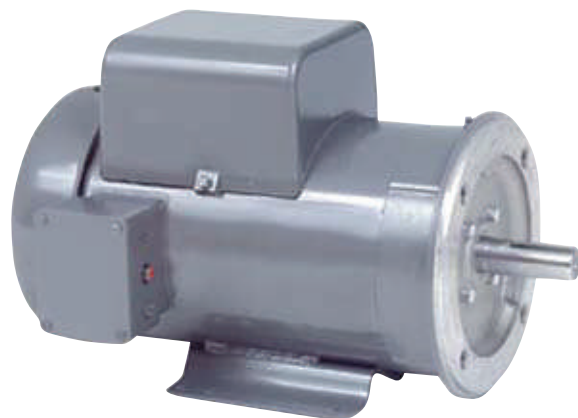
### MOTOR FEATURES:

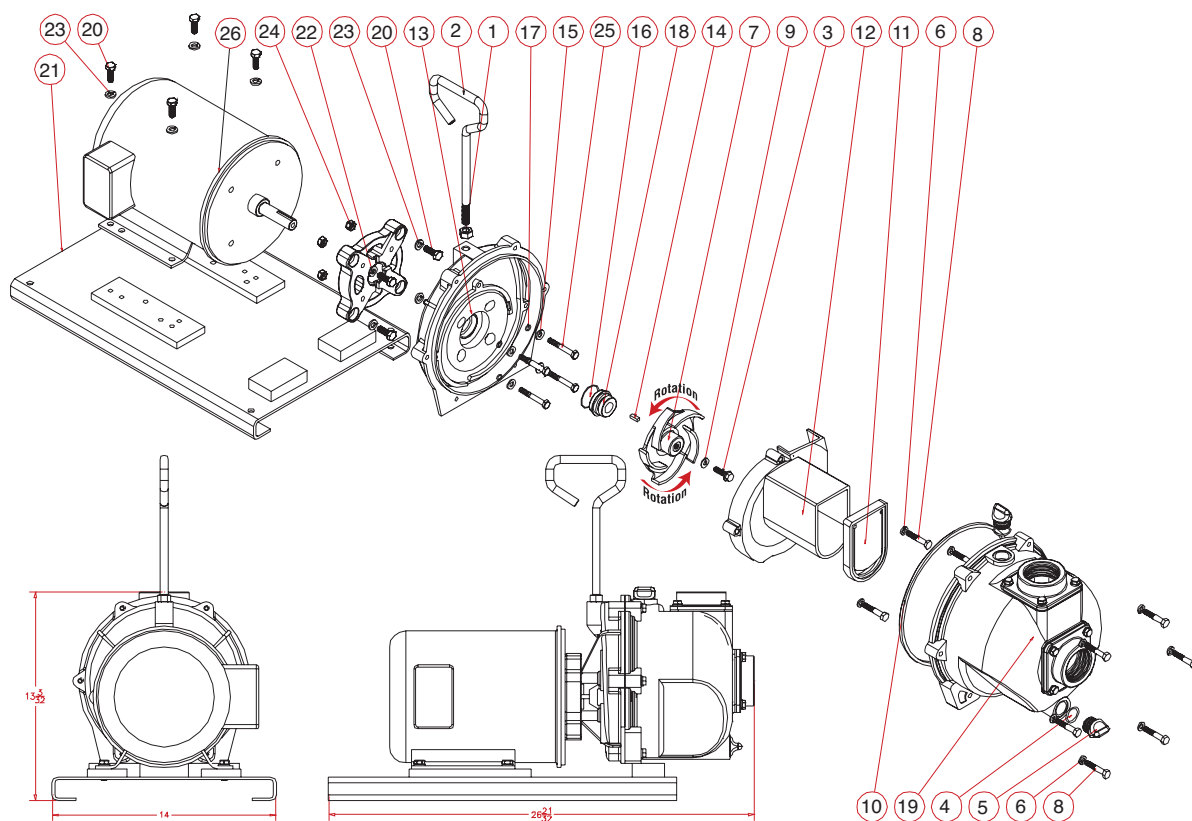
- Pressure cast aluminum end plates with ribbed design for rigidity.
- Ball bearings, locked drive end bearing.
- Heavy gauge steel frame.
- Motors wound with inverter spike resistance magnet wire.
- Mounted complete on heavy duty cast iron base plate.
- 230 V Motors.



## POLYETHYLENE SUCTION BASKET STRAINER

| PART NO | DESCRIPTION                      | QTY | PRICE   |
|---------|----------------------------------|-----|---------|
| 150SBS  | 1 1/2" Female Thread Poly Basket | 1   | \$15.16 |
| 200SBS  | 2" Female Thread Poly Basket     | 1   | \$15.16 |
| 300SBS  | 3" Female Thread Poly Basket     | 1   | \$34.19 |



**REPLACEMENT PARTS 222 CAST IRON PUMPS W/ELECTRIC MOTORS**

| ITEM | PART NO | DESCRIPTION                     | QTY | PRICE    |
|------|---------|---------------------------------|-----|----------|
| 1    | 17010   | 1/2" Jam Nut                    | 1   | \$1.17   |
| 2    | 15022   | Handle                          | 1   | \$11.59  |
| 6    | 12765A  | 5/16" - 24 x 1.12 Impeller Bolt | 1   | \$16.59  |
| 4    | 13778   | O-Ring                          | 2   | \$1.86   |
| 5    | 13777   | Prime/Drain Plug                | 2   | \$2.95   |
| 6    | V10118  | 5/16" Lock Washer               | 9   | \$0.42   |
| 7    | 15772   | 5 Vane Impeller                 | 1   | \$64.89  |
| 8    | 12715A  | 5/16" - 24 x 1.75 HHCS          | 13  | \$3.69   |
| 9    | 12774VA | Impeller Bolt Gasket            | 1   | \$1.39   |
| 10   | 12719A  | Body O-Ring                     | 1   | \$13.26  |
| 11   | 12705   | Check Valve                     | 1   | \$15.16  |
| 12   | 15702   | Volute                          | 1   | \$99.66  |
| 13   | 15703   | Rear Bracket                    | 1   | \$116.66 |
| 14   | 12902A  | 3/16" SQ. x 5/8" Key            | 1   | \$1.55   |
| 15   | 12901   | 5/16" Flat Washer               | 4   | \$0.44   |
| 16   | 12710   | O-Ring                          | 1   | \$3.24   |
| 17   | 12717   | O-Ring                          | 4   | \$0.66   |
| 18   | 12713V  | Seal Assembly                   | 1   | \$70.72  |

**REPLACEMENT PARTS 222 CAST IRON PUMPS W/ELECTRIC MOTORS**

| ITEM | PART NO     | DESCRIPTION                                            | QTY | PRICE      |
|------|-------------|--------------------------------------------------------|-----|------------|
| 18   | 12713SD     | Severe Duty Seal                                       | 1   | \$359.43   |
| 19   | 15712       | Body                                                   | 1   | \$200.87   |
| 20   | 17704       | 3/16" - 16 x 1.25 HHCS Bolt                            | 8   | \$3.08     |
| 21   | 17701       | C-Faced Base Plate                                     | 1   | \$278.12   |
| 22   | 12046       | 56C Adapter                                            | 1   | \$29.44    |
| 23   | V20018      | 3/8" Lock Washer                                       | 8   | \$0.42     |
| 24   | V20019      | 3/8" 16 SS Hex Nut                                     | 4   | \$1.03     |
| 25   | BF107       | 5/16" - 18 x 2 1/4" HHCS Bolt                          | 4   | \$1.43     |
| 26   | BEM5-182CZ  | 5 HP 3450 RPM Three Phase Motor                        | 1   | \$1,485.30 |
| 26   | BEM51-182CZ | 5 HP 3450 RPM Single Phase Motor                       | 1   | \$2,103.82 |
| N/S  | 12099       | 7/16"-14 x 1.25" HHCS                                  | 1   | \$2.95     |
| N/S  | 15751       | Bracket Shim                                           | 1   | \$3.08     |
| N/S  | 15752       | Impeller Shim                                          | 1   | \$1.55     |
| N/S  | 15000       | Repair Kit (Items 4,7,9-11,14,16-18,12099,15751&15752) | 1   | \$137.52   |
| N/S  | 15000V      | FKM (viton type) Repair Kit                            | 1   | \$247.22   |
| N/S  | 15999       | Seal Kit (Items 4, 9-11, 14,16-18,12099,15751&15752)   | 1   | \$81.13    |
| N/S  | 15999V      | FKM (viton type) Seal Kit                              | 1   | \$109.67   |

**NOTE:** EPDM gaskets, seals and o-rings used in the following assemblies unless otherwise noted: 222PBI, 222PIHY, 222PI5, 222PIH5, 222POI. Pumps equipped with FKM (viton type) also available.

# 333 Series Cast Iron Self-Priming Pumps

## FEATURES

- Durable cast iron construction.
- Dynamically balanced impeller.
- Replaceable inlet and outlet flanges.
- Graphite loaded silicon carbide seal with stainless steel cup and spring with FKM (viton type) rubber.
- Pump end separated from engine.
- Large weep holes between pump end and engine.
- "V" Shaped for quicker priming.

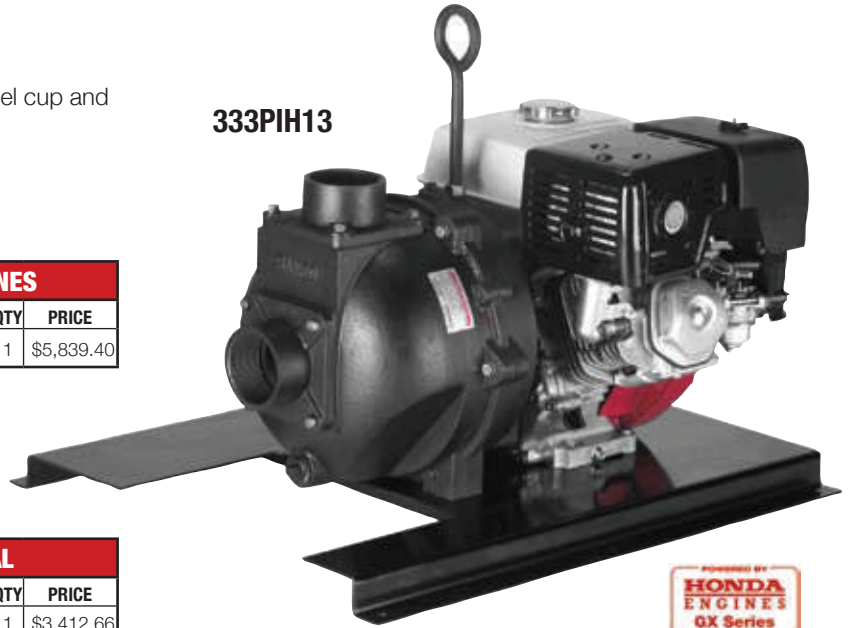
### 333 SERIES CAST IRON PUMPS W/GAS ENGINES

| PART NO  | DESCRIPTION                                                           | HP | QTY | PRICE      |
|----------|-----------------------------------------------------------------------|----|-----|------------|
| 333PIH13 | 3" Cast Iron Pump w/13 HP Honda® Engine w/ Electric Start & Pull Rope | 13 | 1   | \$5,839.40 |

**NOTE:** Engine warranty service available at authorized Honda and Briggs & Stratton dealers.

**SHIPPING:** Truck shipments only.

333PIH13



### 333 SERIES CAST IRON BEARING PEDESTAL

| PART NO | DESCRIPTION                              | HP  | QTY | PRICE      |
|---------|------------------------------------------|-----|-----|------------|
| 333PBI  | 3" Cast Iron Bearing Pedestal w/1" Shaft | N/A | 1   | \$3,412.66 |

# 333 Series Cast Iron Close Coupled Electric Driven Pumps

## FEATURES

- Durable cast iron construction.
- Dynamically balanced impeller.
- Replaceable inlet and outlet flanges.
- Graphite loaded silicon carbide seal with stainless steel cup and spring with FKM (viton type) rubber.
- Pump end separated from engine.
- Large weep holes between pump end and engine.
- "V" Shaped for quicker priming.

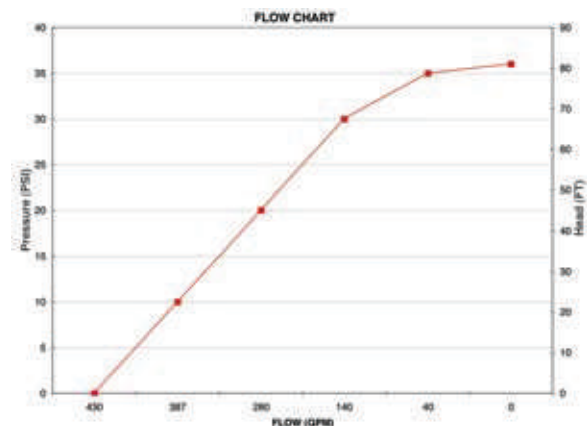
**CAUTION-WARNING:** Please do not run pump dry, restrict or reduce port sizes, or dead head pump. This could cause component failure to pump.

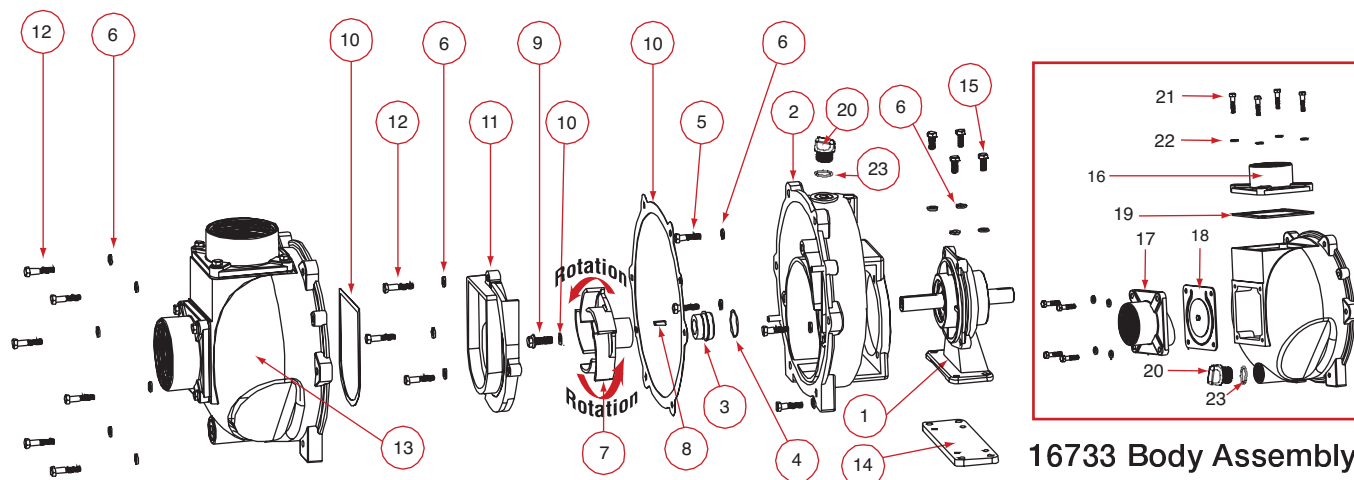
**DO NOT USE WITH FLAMMABLE LIQUIDS.**



### 333 SERIES CAST IRON PUMPS W/ELECTRIC MOTORS

| PART NO  | DESCRIPTION                                          | HP | QTY | PRICE      |
|----------|------------------------------------------------------|----|-----|------------|
| 333PIE15 | 3" Cast Iron Pump w/15 HP Three Phase Electric Motor | 15 | 1   | \$6,520.23 |



**REPLACEMENT PARTS 333PIH13 & 333PBI**

| ITEM | PART NO  | DESCRIPTION                             | QTY | PRICE    |
|------|----------|-----------------------------------------|-----|----------|
| N/S  | 16099    | Impeller Removal Bolt                   | 1   | \$3.83   |
| 1    | 18500    | Bearing Pedestal (333PBI)               | 1   | \$440.36 |
| 2    | 16704    | Rear Bracket                            | 1   | \$480.87 |
| 3    | 16713    | Mechanical Seal                         | 1   | \$506.79 |
| 4    | 16710    | O-Ring                                  | 1   | \$2.17   |
| 5    | 17704    | 3/8" - 16 x 1.25" SS Cap Screw (333PBI) | 4   | \$3.08   |
| 6    | V20018   | 3/8" SS Lock Washer                     | 17  | \$0.42   |
| 7    | 16773    | 3" Impeller (333PBI)                    | 1   | \$75.13  |
| 7    | 16774    | 3" Impeller (333PIH13)                  | 1   | \$181.23 |
| 8    | 16901    | 1/4" SQ. 3/4" Key Stock                 | 1   | \$3.08   |
| 9    | 16765    | Impeller Bolt (333PBI)                  | 1   | \$23.37  |
| 9    | 13765    | Impeller Bolt (333PIH13)                | 1   | \$16.59  |
| 10   | 16019    | Gasket Set                              | 1   | \$14.84  |
| 11   | 16702    | Volute                                  | 1   | \$176.14 |
| 12   | V20011SS | 3/8" - 16 x 1.75" SS Bolt               | 9   | \$1.03   |
| 13   | 16733    | Body                                    | 1   | \$729.05 |
| 14   | 18511    | Adapter Plate (333PBI)                  | 1   | \$106.45 |
| 15   | 18512    | 3/8" - 16 x 0.875" SS HHCS (333PBI)     | 4   | \$1.56   |
| N/S  | 16751    | Bracket Shim Set                        | 1   | \$3.08   |
| N/S  | 16752    | Impeller Shim                           | 1   | \$2.96   |
| N/S  | 18033    | Handle                                  | 1   | \$18.16  |
| N/S  | 18034    | 5/8" SS Jam Nut                         | 1   | \$3.16   |
| 16   | 16001    | Outlet Flange                           | 1   | \$50.31  |
| 17   | 16003    | Inlet Flange                            | 1   | \$60.55  |
| 18   | 16706    | FKM (viton type) Inlet Gasket w/ Check  | 1   | \$104.83 |
| 19   | 16011    | FKM (viton type) Outlet Gasket          | 1   | \$26.34  |
| 20   | 13777    | Plug                                    | 2   | \$2.95   |
| 21   | 18027    | 3/8" - 16 x 1.50" HHCS (333PIH13)       | 8   | \$1.86   |
| 22   | V20018   | 3/8" SS Lock Washer                     | 8   | \$0.42   |
| 23   | 13778    | O-Ring                                  | 2   | \$1.86   |

**REPLACEMENT PARTS 333PIE15**

| ITEM | PART NO  | DESCRIPTION                            | QTY | PRICE    |
|------|----------|----------------------------------------|-----|----------|
| N/S  | 16099    | Impeller Removal Bolt                  | 1   | \$3.83   |
| 2    | 16704A   | Rear Bracket w/C-Face Adapter          | 1   | \$480.21 |
| 3    | 15025    | Mechanical Seal                        | 1   | \$218.28 |
| 6    | V20018   | 3/8" SS Lock Washer                    | 8   | \$0.42   |
| 7    | 16773A   | 3" Impeller - 5 Vane                   | 1   | \$81.15  |
| 8    | 17901    | 1/4" SQ. 3/4" Key Stock                | 1   | \$3.08   |
| 9    | 16765    | 7/16-20 1 1/4" HFS                     | 1   | \$23.37  |
| 10   | 16019    | Gasket Set                             | 1   | \$14.84  |
| 11   | 16702    | Volute                                 | 1   | \$176.14 |
| 12   | V20011SS | 3/8" - 16 x 1.75" SS Bolt              | 9   | \$1.03   |
| 13   | 16733    | Body                                   | 1   | \$729.05 |
| N/S  | 16751    | Bracket Shim Set                       | 1   | \$3.08   |
| N/S  | 16752    | Impeller Shim                          | 1   | \$2.96   |
| N/S  | 18033    | Handle                                 | 1   | \$18.16  |
| N/S  | 18034    | 5/8" SS Jam Nut                        | 1   | \$3.16   |
| 16   | 16001    | Outlet Flange                          | 1   | \$50.31  |
| 17   | 16003    | Inlet Flange                           | 1   | \$60.55  |
| 18   | 16706    | FKM (viton type) Inlet Gasket w/ Check | 1   | \$104.83 |
| 19   | 16011    | FKM (viton type) Outlet Gasket         | 1   | \$26.34  |
| 20   | 13777    | Plug                                   | 2   | \$2.95   |
| 21   | 18027    | 3/8" - 16 x 1.50" HHCS                 | 8   | \$1.86   |
| 22   | V20018   | 3/8" SS Lock Washer                    | 4   | \$0.42   |
| 23   | 13778    | O-Ring                                 | 2   | \$1.86   |



# 444 Series Cast Iron Self-Priming Pumps

## FEATURES

- Durable cast iron construction.
- Dynamically balanced impeller.
- Replaceable inlet and outlet flanges.
- Graphite loaded silicon carbide seal with stainless steel cup and spring with FKM (viton type) rubber.
- Pump end separated from engine.
- Large weep holes between pump end and engine.
- "V" Shaped for quicker priming.

**CAUTION-WARNING:** Please do not run pump dry, restrict or reduce port sizes, or dead head pump. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**



### 444 SERIES CAST IRON PUMPS W/GAS ENGINES

| PART NO  | DESCRIPTION                                                   | HP | QTY | PRICE      |
|----------|---------------------------------------------------------------|----|-----|------------|
| 444PI23  | 4" Cast Iron Pump w/23 HP Briggs & Stratton® Vanguard® Engine | 23 | 1   | \$7,673.50 |
| 444PIH24 | 4" Cast Iron Pump w/24 HP Honda® Engine                       | 24 | 1   | \$9,563.99 |

### 444 SERIES CAST IRON BEARING PEDESTAL

| PART NO | DESCRIPTION                                                     | HP  | QTY | PRICE      |
|---------|-----------------------------------------------------------------|-----|-----|------------|
| 444PBI  | 4" Cast Iron Bearing Pedestal w/1" Shaft                        | N/A | 1   | \$3,412.66 |
| 433PBI  | 4" Cast Iron Bearing Pedestal w/1" Shaft w/4" Inlet & 3" Outlet | N/A | 1   | \$3,412.66 |



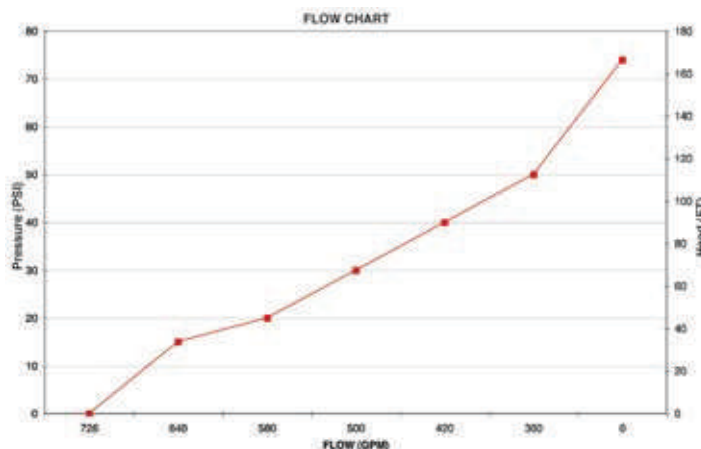
Graphite Loaded Silicon Carbide Seal for Longer Seal Life.

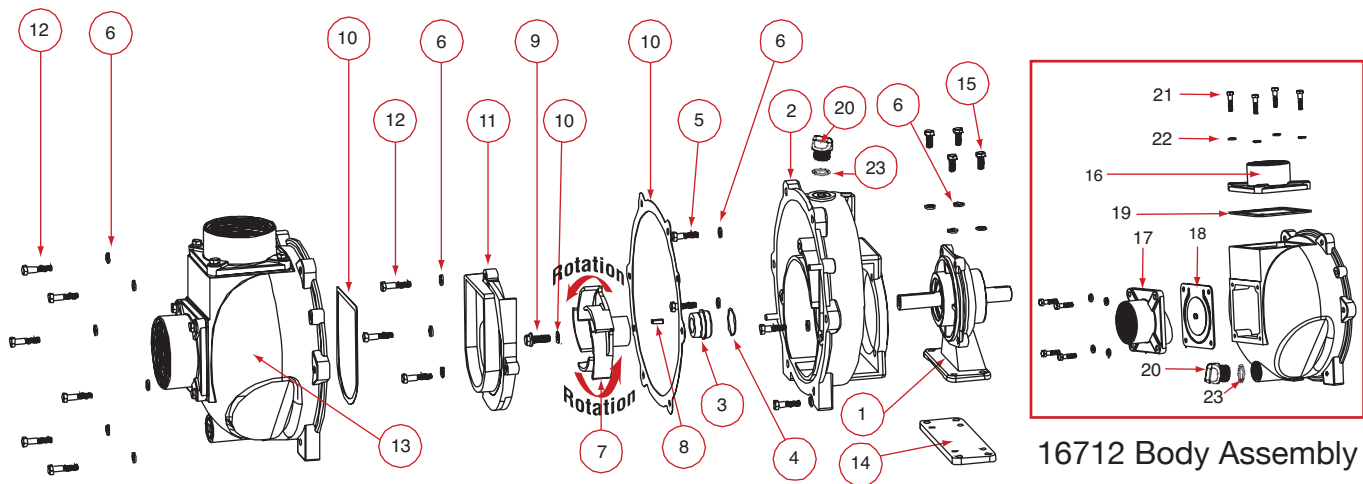


Better Run Dry Capabilities!

**NOTE:** Engine warranty service available at authorized Honda dealers.

**SHIPPING:** Truck shipments only.



**REPLACEMENT PARTS 444PI23 & 444PIH24**

| ITEM | PART NO  | DESCRIPTION                    | QTY | PRICE    |
|------|----------|--------------------------------|-----|----------|
| N/S  | 16099    | Impeller Removal Bolt          | 1   | \$3.83   |
| 2    | 16707    | Rear Bracket                   | 1   | \$480.87 |
| 3    | 18435    | Mechanical Seal                | 1   | \$589.49 |
| 4    | 16710    | O-Ring                         | 1   | \$2.17   |
| 5    | 17704    | 3/8" - 16 x 1.25" SS Cap Screw | 4   | \$3.08   |
| 6    | V20018   | 3/8" SS Lock Washer            | 13  | \$0.42   |
| 7    | 16775    | 3" Impeller                    | 1   | \$76.60  |
| 8    | 16901    | 1/4" SQ. 3/4" Key Stock        | 1   | \$3.08   |
| 9    | 16765    | Impeller Bolt                  | 1   | \$23.37  |
| 10   | 16019    | Gasket Set                     | 1   | \$14.84  |
| 11   | 16702    | Volute                         | 1   | \$176.14 |
| 12   | V20011SS | 3/8" - 16 x 1.75" SS Bolt      | 9   | \$1.03   |
| 13   | 16712    | Body                           | 1   | \$758.32 |
| N/S  | 16751    | Bracket Shim Set               | 1   | \$3.08   |
| N/S  | 16752    | Impeller Shim                  | 1   | \$2.96   |
| N/S  | 18033    | Handle                         | 1   | \$18.16  |
| N/S  | 18034    | 5/8" SS Jam Nut                | 1   | \$3.16   |
| 16   | 16000    | Outlet Flange                  | 1   | \$54.02  |
| 17   | 16002    | Inlet Flange                   | 1   | \$62.05  |
| 18   | 16706    | Inlet Gasket w/ Check          | 1   | \$104.83 |
| 19   | 16011    | Outlet Gasket                  | 1   | \$26.34  |
| 20   | 13777    | Plug                           | 2   | \$2.95   |
| 21   | 18027    | 3/8" - 16 x 1.50" HHCS         | 8   | \$1.86   |
| 22   | V20018   | 3/8" SS Lock Washer            | 8   | \$0.42   |
| 23   | 13778    | O-Ring                         | 2   | \$1.86   |

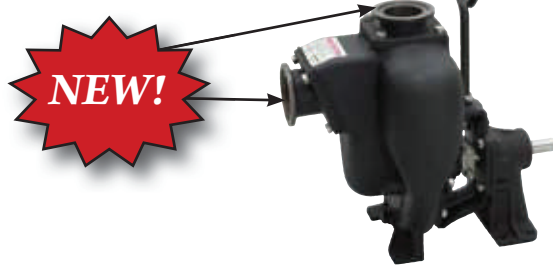
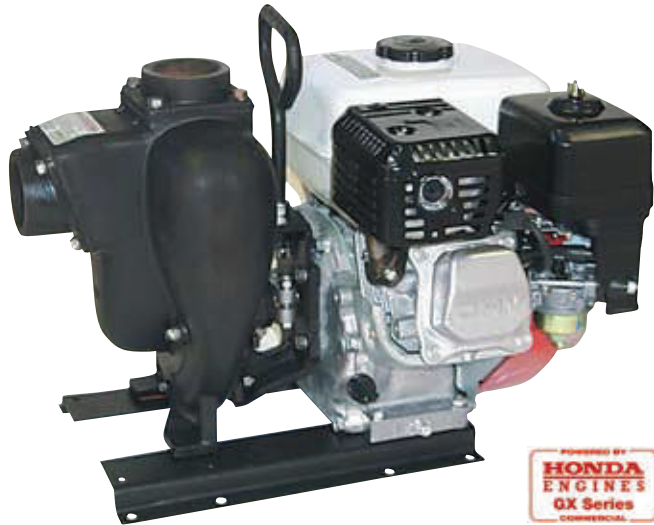
**REPLACEMENT PARTS 444PBI & 433PBI**

| ITEM | PART NO  | DESCRIPTION                    | QTY | PRICE    |
|------|----------|--------------------------------|-----|----------|
| N/S  | 16099    | Impeller Removal Bolt          | 1   | \$3.83   |
| 1    | 18500    | Bearing Pedestal               | 1   | \$440.36 |
| 2    | 16703    | Rear Bracket (444PBI)          | 1   | \$503.08 |
| 2    | 16704    | Rear Bracket (433PBI)          | 1   | \$480.87 |
| 3    | 16713    | Mechanical Seal                | 1   | \$506.79 |
| 4    | 16710    | O-Ring                         | 1   | \$2.17   |
| 5    | 17704    | 3/8" - 16 x 1.25" SS Cap Screw | 4   | \$3.08   |
| 6    | V20018   | 3/8" SS Lock Washer            | 17  | \$0.42   |
| 7    | 16772    | 4" Impeller -5 Vane (444PBI)   | 1   | \$76.60  |
| 7    | 16773    | 3" Impeller (433PBI)           | 1   | \$75.13  |
| 8    | 16901    | 1/4" SQ. 3/4" Key Stock        | 1   | \$3.08   |
| 9    | 16765    | Impeller Bolt                  | 1   | \$23.37  |
| 10   | 16019    | Gasket Set                     | 1   | \$14.84  |
| 11   | 16702    | Volute                         | 1   | \$176.14 |
| 12   | V20011SS | 3/8" - 16 x 1.75" SS Bolt      | 9   | \$1.03   |
| 13   | 16712    | Body (444PBI)                  | 1   | \$758.32 |
| 13   | 16743    | Body (433PBI)                  | 1   | \$732.64 |
| 14   | 18511    | Adapter Plate                  | 1   | \$106.45 |
| 15   | 18512    | 3/8" - 16 x 0.875" SS HHCS     | 4   | \$1.56   |
| N/S  | 16751    | Bracket Shim Set               | 1   | \$3.08   |
| N/S  | 16752    | Impeller Shim                  | 1   | \$2.96   |
| N/S  | 18033    | Handle                         | 1   | \$18.16  |
| N/S  | 18034    | 5/8" SS Jam Nut                | 1   | \$3.16   |
| 16   | 16000    | 4" Outlet Flange (444PBI)      | 1   | \$54.02  |
| 16   | 16001    | 3" Outlet Flange (433PBI)      | 1   | \$50.31  |
| 17   | 16002    | Inlet Flange                   | 1   | \$62.05  |
| 18   | 16706    | Inlet Gasket w/ Check          | 1   | \$104.83 |
| 19   | 16011    | Outlet Gasket                  | 1   | \$26.34  |
| 20   | 13777    | Plug                           | 2   | \$2.95   |
| 21   | 18027    | 3/8" - 16 x 1.50" HHCS         | 8   | \$1.86   |
| 22   | V20018   | 3/8" SS Lock Washer            | 8   | \$0.42   |
| 23   | 13778    | O-Ring                         | 2   | \$1.86   |

# 1½" & 2" Gas Driven Cast Iron Self-Priming Centrifugal Pump

## FEATURES

- Cast iron construction for rugged dependable service.
- Stainless steel shaft sleeve to protect engine shaft.
- Carbon ceramic seal with stainless steel cup and spring with FKM (viton type) rubber.
- Replaceable inlet and outlet flanges.
- Dynamically balanced impeller.



| 1½" CAST IRON PUMPS W/GAS ENGINES |                                                       |     |     |            |
|-----------------------------------|-------------------------------------------------------|-----|-----|------------|
| PART NO                           | DESCRIPTION                                           | HP  | QTY | PRICE      |
| 150PI-3                           | 1½" Cast Iron Pump w/3.5 HP Briggs & Stratton® Engine | 3.5 | 1   | \$1,264.77 |

| 2" CAST IRON PUMPS W/GAS ENGINES |                                                                 |     |     |            |
|----------------------------------|-----------------------------------------------------------------|-----|-----|------------|
| PART NO                          | DESCRIPTION                                                     | HP  | QTY | PRICE      |
| 200PI-3                          | 2" Cast Iron Pump w/3.5 HP Briggs & Stratton® Engine            | 3.5 | 1   | \$1,264.77 |
| 200PI6PRO                        | 2" Cast Iron Pump w/6.5 HP Briggs & Stratton® Engine Pro Series | 6.5 | 1   | \$1,417.72 |
| 200PIH-5                         | 2" Cast Iron Pump w/5.5 HP Honda® Engine                        | 5.5 | 1   | \$2,305.25 |
| 200PIH5E                         | 2" Cast Iron Pump w/5.5 HP Honda® Engine w/ Electric Start      | 5.5 | 1   | \$3,148.85 |

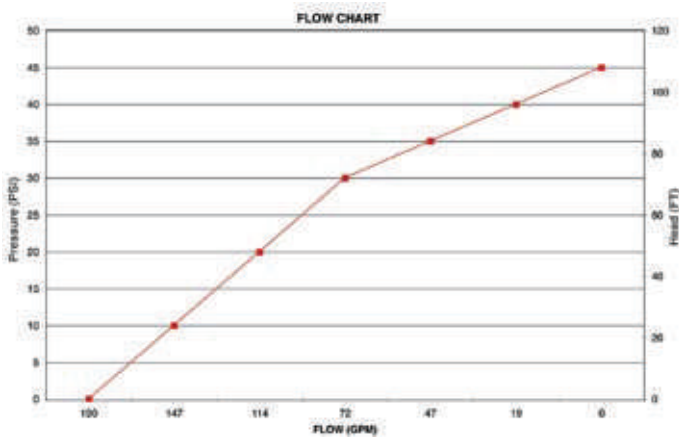
| 2" CAST IRON PUMP MANIFOLD FLANGES |                           |     |         |
|------------------------------------|---------------------------|-----|---------|
| PART NO                            | DESCRIPTION               | QTY | PRICE   |
| M17000                             | 2" Manifold Outlet Flange | 1   | \$27.07 |
| M17002                             | 2" Manifold Inlet Flange  | 1   | \$27.07 |

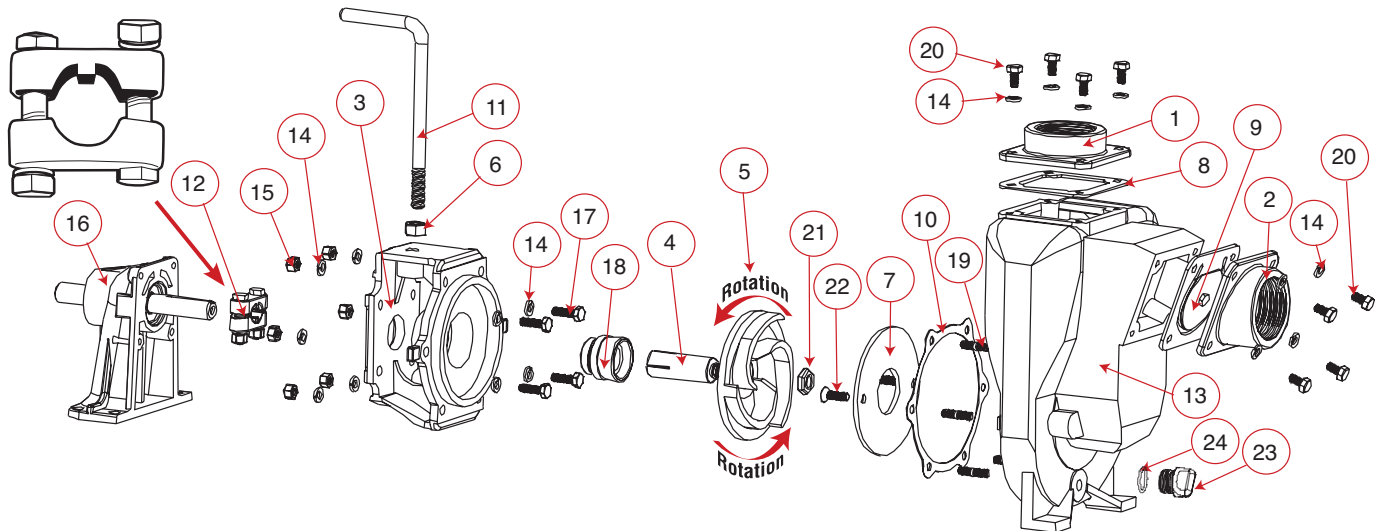
**CAUTION-WARNING:** Please do not run pump dry, restrict or reduce port sizes, or dead head pump. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**

**NOTE:** Engine warranty service available at authorized Briggs & Stratton and Honda dealers.

**SHIPPING:** Pumps are truck shipments only.



**REPLACEMENT PARTS 1½" CAST IRON PUMPS**

| ITEM | PART NO   | DESCRIPTION                                     | QTY | PRICE    |
|------|-----------|-------------------------------------------------|-----|----------|
| 1    | 17001     | Threaded Outlet Flange                          | 1   | \$23.95  |
| 2    | 17003     | Threaded Inlet Flange                           | 1   | \$27.07  |
| 3    | 17004     | Adapter for Gas Engine                          | 1   | \$95.57  |
| 3    | 17046     | C-Flange Adapter                                | 1   | \$132.87 |
| 4    | 17005     | 5/8" Sleeve Drive for Electric Motor            | 1   | \$90.38  |
| 4    | 17006     | 3/4" Sleeve Drive                               | 1   | \$90.38  |
| 4    | 17007     | 7/8" Sleeve Drive for Electric Motor            | 1   | \$90.38  |
| 5    | 17008*    | 5" Impeller                                     | 1   | \$69.51  |
| 5    | 17008-4.6 | 4.6" Trimmed Impeller                           | 1   | \$69.51  |
| 5    | 17008-4.1 | 4.1" Trimmed Impeller                           | 1   | \$69.51  |
| 6    | 17010     | 1/2" Hex Nut                                    | 1   | \$1.17   |
| 7    | 17011     | Wear Plate                                      | 1   | \$37.06  |
| 8    | 17013     | EPDM Gasket                                     | 1   | \$6.10   |
| 9    | 17016     | Check Valve Assembly                            | 1   | \$17.77  |
| 10   | 17018     | Gasket Adapter                                  | 1   | \$6.56   |
| 11   | 15022     | Handle                                          | 1   | \$11.59  |
| 12   | 17023     | 5/8" Clamp for 3/4" Shaft Assembly (Old Style)  | 1   | \$42.49  |
| 12   | 17123     | 5/8" Clamp for 3/4" Shaft Assembly (Keyed)      | 1   | \$42.49  |
| 12   | 17024     | 7/8" Clamp for Shaft Assembly                   | 1   | \$42.49  |
| 13   | 17026     | Pump Housing                                    | 1   | \$235.77 |
| 14   | V10118    | 5/16" Lock Washer                               | 18  | \$0.42   |
| 15   | V10119    | 5/16" - 18 SS Hex Nut                           | 6   | \$0.56   |
| N/S  | 12882R    | Housing                                         | 1   | \$101.67 |
| N/S  | 12883R    | Bearing Pedestal w/ 3/4" Shaft Only             | 1   | \$100.18 |
| N/S  | 12884     | Internal Retaining Clip for Pedestal            | 1   | \$3.69   |
| N/S  | 12883B    | Bearings                                        | 2   | \$51.57  |
| 16   | 12882A    | Complete Pedestal Assembly                      | 1   | \$213.64 |
| 17   | 17040     | 5/16" -24 x 1.00" Cap Screw                     | 4   | \$3.71   |
| 18   | 17028     | EPDM Seal Assembly                              | 1   | \$67.98  |
| 18   | 17035*    | FKM (viton type) Seal Assembly                  | 1   | \$67.98  |
| 18   | 17035SD   | Severe Duty Seal                                | 1   | \$386.27 |
| 19   | 17042     | Stud                                            | 6   | \$1.94   |
| 20   | 17019     | 5/16"-18 x 3/4" Cap Screw                       | 8   | \$1.17   |
| 21   | 17009B    | 5/8" Impeller Nut                               | 1   | \$7.88   |
| 22   | 17130     | C Sink Flat Head Screw                          | 2   | \$2.42   |
| 23   | 12777     | Plug                                            | 1   | \$2.24   |
| 24   | UV15163   | O-Ring                                          | 1   | \$0.44   |
| N/S  | 17033     | Z Rails (Pair)                                  | 1   | \$27.83  |
| N/S  | 17100     | Repair Kit (Consists of items 4*, 5*, 7,10,18*) | 1   | \$234.08 |

**REPLACEMENT PARTS 2" CAST IRON PUMPS**

| ITEM | PART NO   | DESCRIPTION                                     | QTY | PRICE    |
|------|-----------|-------------------------------------------------|-----|----------|
| 1    | 17000     | Threaded Outlet Flange                          | 1   | \$23.95  |
| 1    | M17000    | 2" Manifold Outlet Flange                       | 1   | \$27.07  |
| 2    | 17002     | Threaded Inlet Flange                           | 1   | \$27.07  |
| 2    | M17002    | 2" Manifold Inlet Flange                        | 1   | \$27.07  |
| 3    | 17004     | Adapter for Gas Engine                          | 1   | \$95.57  |
| 3    | 17046     | C-Flange Adapter                                | 1   | \$132.87 |
| 4    | 17005     | 5/8" Sleeve Drive for Electric Motor            | 1   | \$90.38  |
| 4    | 17006     | 3/4" Sleeve Drive                               | 1   | \$90.38  |
| 4    | 17007     | 7/8" Sleeve Drive for Electric Motor            | 1   | \$90.38  |
| 5    | 17008*    | 5" Impeller                                     | 1   | \$69.51  |
| 5    | 17008-4.6 | 4.6" Trimmed Impeller                           | 1   | \$69.51  |
| 5    | 17008-4.1 | 4.1" Trimmed Impeller                           | 1   | \$69.51  |
| 6    | 17010     | 1/2" Hex Nut                                    | 1   | \$1.17   |
| 7    | 17011     | Wear Plate                                      | 1   | \$37.06  |
| 8    | 17013     | EPDM Gasket                                     | 1   | \$6.10   |
| 9    | 17016     | Check Valve Assembly                            | 1   | \$17.77  |
| 10   | 17018     | Gasket Adapter                                  | 1   | \$6.56   |
| 11   | 15022     | Handle                                          | 1   | \$11.59  |
| 12   | 17023     | 5/8" Clamp for 3/4" Shaft Assembly (Old Style)  | 1   | \$42.49  |
| 12   | 17123     | 5/8" Clamp for 3/4" Shaft Assembly (Keyed)      | 1   | \$42.49  |
| 12   | 17024     | 7/8" Clamp for Shaft Assembly                   | 1   | \$42.49  |
| 13   | 17026     | Pump Housing                                    | 1   | \$235.77 |
| 14   | V10118    | 5/16" Lock Washer                               | 18  | \$0.42   |
| 15   | V10119    | 5/16" - 18 SS Hex Nut                           | 6   | \$0.56   |
| N/S  | 12882R    | Housing                                         | 1   | \$101.67 |
| N/S  | 12883R    | Bearing Pedestal w/ 3/4" Shaft Only             | 1   | \$100.18 |
| N/S  | 12884     | Internal Retaining Clip for Pedestal            | 1   | \$3.69   |
| N/S  | 12883B    | Bearings                                        | 2   | \$51.57  |
| 16   | 12882A    | Complete Pedestal Assembly                      | 1   | \$213.64 |
| 17   | 17040     | 5/16" -24 x 1.00" Cap Screw                     | 4   | \$3.71   |
| 18   | 17028     | EPDM Seal Assembly                              | 1   | \$67.98  |
| 18   | 17035*    | FKM (viton type) Seal Assembly                  | 1   | \$67.98  |
| 18   | 17035SD   | Severe Duty Seal                                | 1   | \$386.27 |
| 19   | 17042     | Stud                                            | 6   | \$1.94   |
| 20   | 17019     | 5/16"-18 x 3/4" Cap Screw                       | 8   | \$1.17   |
| 21   | 17009B    | 5/8" Impeller Nut                               | 1   | \$7.88   |
| 22   | 17130     | C Sink Flat Head Screw                          | 2   | \$2.42   |
| 23   | 12777     | Plug                                            | 1   | \$2.24   |
| 24   | UV15163   | O-Ring                                          | 1   | \$0.44   |
| N/S  | 17033     | Z Rails (Pair)                                  | 1   | \$27.83  |
| N/S  | 17100     | Repair Kit (Consists of items 4*, 5*, 7,10,18*) | 1   | \$234.08 |



# 1½" & 2" Cast Iron Pump Only & Bearing Pedestal Pumps

## FEATURES

- Pump Only packs complete and ready for attachment to gasoline engine.
- Pedestal pump for long coupling to electric motor.

## IMPORTANT

- Recommended horsepower, listed below, is for water only. Heavier fluids may require additional horsepower or a trimmed impeller.

**CAUTION-WARNING:** Please do not run pumps dry, restrict or reduce port sizes or dead head pumps. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**



| 1½" CAST IRON PUMP ONLY |                                                             |     |     |          |
|-------------------------|-------------------------------------------------------------|-----|-----|----------|
| PART NO                 | DESCRIPTION                                                 | HP  | QTY | PRICE    |
| 150POI                  | 1½" Cast Iron Pump Only w/ ¾" Straight Keyed Shaft Required | N/A | 1   | \$732.40 |

| 2" CAST IRON PUMP ONLY |                                                            |     |     |          |
|------------------------|------------------------------------------------------------|-----|-----|----------|
| PART NO                | DESCRIPTION                                                | HP  | QTY | PRICE    |
| 200POI                 | 2" Cast Iron Pump Only w/ ¾" Straight Keyed Shaft Required | N/A | 1   | \$732.40 |

| 1½" CAST IRON BEARING PEDESTAL |                                                      |     |     |            |
|--------------------------------|------------------------------------------------------|-----|-----|------------|
| PART NO                        | DESCRIPTION                                          | HP  | QTY | PRICE      |
| 150PBI                         | 1½" Cast Iron Bearing Pedestal w/ ¾" Straight Shaft* | N/A | 1   | \$1,000.07 |

| 2" CAST IRON BEARING PEDESTAL |                                                     |     |     |            |
|-------------------------------|-----------------------------------------------------|-----|-----|------------|
| PART NO                       | DESCRIPTION                                         | HP  | QTY | PRICE      |
| 200PBI                        | 2" Cast Iron Bearing Pedestal w/ ¾" Straight Shaft* | N/A | 1   | \$1,000.07 |

Note: \*¾" straight shaft for long coupling to electric motors

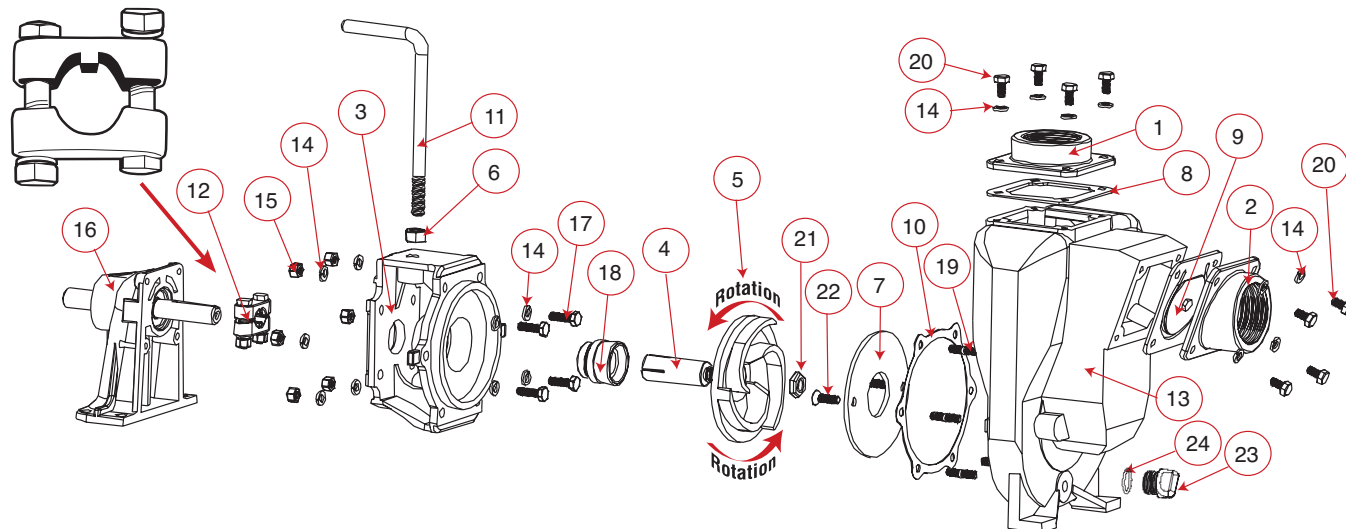
| 1½" CAST IRON C-FLANGE PUMPS |                                                                  |     |     |          |
|------------------------------|------------------------------------------------------------------|-----|-----|----------|
| PART NO                      | DESCRIPTION                                                      | HP  | QTY | PRICE    |
| 150POICF5/8                  | 1½" Cast Iron C-Flange Pump w/ 5/8" Shaft Sleeve*                | N/A | 1   | \$811.80 |
| 150POICF5/8-4.1              | 1½" Cast Iron C-Flange Pump w/ 5/8" Shaft Sleeve* & 4.1 Impeller | N/A | 1   | \$811.80 |
| 150POICF5/8-4.6              | 1½" Cast Iron C-Flange Pump w/ 5/8" Shaft Sleeve* & 4.6 Impeller | N/A | 1   | \$811.80 |
| 150POICF7/8                  | 1½" Cast Iron C-Flange Pump w/ 7/8" Shaft Sleeve*                | N/A | 1   | \$811.80 |
| 150POICF7/8-4.1              | 1½" Cast Iron C-Flange Pump w/ 7/8" Shaft Sleeve* & 4.1 Impeller | N/A | 1   | \$811.80 |
| 150POICF7/8-4.6              | 1½" Cast Iron C-Flange Pump w/ 7/8" Shaft Sleeve* & 4.6 Impeller | N/A | 1   | \$811.80 |

| 2" CAST IRON C-FLANGE PUMPS |                                                                 |     |     |          |
|-----------------------------|-----------------------------------------------------------------|-----|-----|----------|
| PART NO                     | DESCRIPTION                                                     | HP  | QTY | PRICE    |
| 200POICF5/8                 | 2" Cast Iron C-Flange Pump w/ 5/8" Shaft Sleeve*                | N/A | 1   | \$811.80 |
| 200POICF5/8-4.1             | 2" Cast Iron C-Flange Pump w/ 5/8" Shaft Sleeve* & 4.1 Impeller | N/A | 1   | \$811.80 |
| 200POICF5/8-4.6             | 2" Cast Iron C-Flange Pump w/ 5/8" Shaft Sleeve* & 4.6 Impeller | N/A | 1   | \$811.80 |
| 200POICF7/8                 | 2" Cast Iron C-Flange Pump w/ 7/8" Shaft Sleeve*                | N/A | 1   | \$811.80 |
| 200POICF7/8-4.1             | 2" Cast Iron C-Flange Pump w/ 7/8" Shaft Sleeve* & 4.1 Impeller | N/A | 1   | \$811.80 |
| 200POICF7/8-4.6             | 2" Cast Iron C-Flange Pump w/ 7/8" Shaft Sleeve* & 4.6 Impeller | N/A | 1   | \$811.80 |

Note: \* Recommendation for 5/8" Shaft: 56C Frame Size, 3 HP, 3450 RPM, & 5" Max Impeller for close coupling to electric motors.  
7/8" Shaft: 145TC Frame Size, 3 HP, 3450 RPM, & 5" Max Impeller for close coupling to electric motors.

\*See page 192 for available base plate.



**REPLACEMENT PARTS 1½" CAST IRON PUMPS**

| ITEM | PART NO   | DESCRIPTION                                     | QTY | PRICE    |
|------|-----------|-------------------------------------------------|-----|----------|
| 1    | 17001     | Threaded Outlet Flange                          | 1   | \$23.95  |
| 2    | 17003     | Threaded Inlet Flange                           | 1   | \$27.07  |
| 3    | 17004     | Adapter for Gas Engine                          | 1   | \$95.57  |
| 3    | 17046     | C-Flange Adapter                                | 1   | \$132.87 |
| 4    | 17005     | 5/8" Sleeve Drive for Electric Motor            | 1   | \$90.38  |
| 4    | 17006     | 3/4" Sleeve Drive                               | 1   | \$90.38  |
| 4    | 17007     | 7/8" Sleeve Drive for Electric Motor            | 1   | \$90.38  |
| 5    | 17008*    | 5" Impeller                                     | 1   | \$69.51  |
| 5    | 17008-4.6 | 4.6" Trimmed Impeller                           | 1   | \$69.51  |
| 5    | 17008-4.1 | 4.1" Trimmed Impeller                           | 1   | \$69.51  |
| 6    | 17010     | 1/2" Hex Nut                                    | 1   | \$1.17   |
| 7    | 17011     | Wear Plate                                      | 1   | \$37.06  |
| 8    | 17013     | EPDM Gasket                                     | 1   | \$6.10   |
| 9    | 17016     | Check Valve Assembly                            | 1   | \$17.77  |
| 10   | 17018     | Gasket Adapter                                  | 1   | \$6.56   |
| 11   | 15022     | Handle                                          | 1   | \$11.59  |
| 12   | 17023     | 5/8" Clamp for 3/4" Shaft Assembly (Old Style)  | 1   | \$42.49  |
| 12   | 17123     | 5/8" Clamp for 3/4" Shaft Assembly (Keyed)      | 1   | \$42.49  |
| 12   | 17024     | 7/8" Clamp for Shaft Assembly                   | 1   | \$42.49  |
| 13   | 17026     | Pump Housing                                    | 1   | \$235.77 |
| 14   | V10118    | 5/16" Lock Washer                               | 18  | \$0.42   |
| 15   | V10119    | 5/16" - 18 SS Hex Nut                           | 6   | \$0.56   |
| N/S  | 12882R    | Housing                                         | 1   | \$101.67 |
| N/S  | 12883R    | Bearing Pedestal w/ 3/4" Shaft Only             | 1   | \$100.18 |
| N/S  | 12884     | Internal Retaining Clip for Pedestal            | 1   | \$3.69   |
| N/S  | 12883B    | Bearings                                        | 2   | \$51.57  |
| 16   | 12882A    | Complete Pedestal Assembly                      | 1   | \$213.64 |
| 17   | 17040     | 5/16" -24 x 1.00" Cap Screw                     | 4   | \$3.71   |
| 18   | 17028     | EPDM Seal Assembly                              | 1   | \$67.98  |
| 18   | 17035*    | FKM (viton type) Seal Assembly                  | 1   | \$67.98  |
| 18   | 17035SD   | Severe Duty Seal                                | 1   | \$386.27 |
| 19   | 17042     | Stud                                            | 6   | \$1.94   |
| 20   | 17019     | 5/16"-18 x 3/4" Cap Screw                       | 8   | \$1.17   |
| 21   | 17009B    | 5/8" Impeller Nut                               | 1   | \$7.88   |
| 22   | 17130     | C Sink Flat Head Screw                          | 2   | \$2.42   |
| 23   | 12777     | Plug                                            | 1   | \$2.24   |
| 24   | UV15163   | O-Ring                                          | 1   | \$0.44   |
| N/S  | 17033     | Z Rails (Pair)                                  | 1   | \$27.83  |
| N/S  | 17100     | Repair Kit (Consists of items 4*, 5*, 7,10,18*) | 1   | \$234.08 |

**REPLACEMENT PARTS 2" CAST IRON PUMPS**

| ITEM | PART NO   | DESCRIPTION                                     | QTY | PRICE    |
|------|-----------|-------------------------------------------------|-----|----------|
| 1    | 17000     | Threaded Outlet Flange                          | 1   | \$23.95  |
| 1    | M17000    | 2" Manifold Outlet Flange                       | 1   | \$27.07  |
| 2    | 17002     | Threaded Inlet Flange                           | 1   | \$27.07  |
| 2    | M17002    | 2" Manifold Inlet Flange                        | 1   | \$27.07  |
| 3    | 17004     | Adapter for Gas Engine                          | 1   | \$95.57  |
| 3    | 17046     | C-Flange Adapter                                | 1   | \$132.87 |
| 4    | 17005     | 5/8" Sleeve Drive for Electric Motor            | 1   | \$90.38  |
| 4    | 17006     | 3/4" Sleeve Drive                               | 1   | \$90.38  |
| 4    | 17007     | 7/8" Sleeve Drive for Electric Motor            | 1   | \$90.38  |
| 5    | 17008*    | 5" Impeller                                     | 1   | \$69.51  |
| 5    | 17008-4.6 | 4.6" Trimmed Impeller                           | 1   | \$69.51  |
| 5    | 17008-4.1 | 4.1" Trimmed Impeller                           | 1   | \$69.51  |
| 6    | 17010     | 1/2" Hex Nut                                    | 1   | \$1.17   |
| 7    | 17011     | Wear Plate                                      | 1   | \$37.06  |
| 8    | 17013     | EPDM Gasket                                     | 1   | \$6.10   |
| 9    | 17016     | Check Valve Assembly                            | 1   | \$17.77  |
| 10   | 17018     | Gasket Adapter                                  | 1   | \$6.56   |
| 11   | 15022     | Handle                                          | 1   | \$11.59  |
| 12   | 17023     | 5/8" Clamp for 3/4" Shaft Assembly (Old Style)  | 1   | \$42.49  |
| 12   | 17123     | 5/8" Clamp for 3/4" Shaft Assembly (Keyed)      | 1   | \$42.49  |
| 12   | 17024     | 7/8" Clamp for Shaft Assembly                   | 1   | \$42.49  |
| 13   | 17026     | Pump Housing                                    | 1   | \$235.77 |
| 14   | V10118    | 5/16" Lock Washer                               | 18  | \$0.42   |
| 15   | V10119    | 5/16" - 18 SS Hex Nut                           | 6   | \$0.56   |
| N/S  | 12882R    | Housing                                         | 1   | \$101.67 |
| N/S  | 12883R    | Bearing Pedestal w/ 3/4" Shaft Only             | 1   | \$100.18 |
| N/S  | 12884     | Internal Retaining Clip for Pedestal            | 1   | \$3.69   |
| N/S  | 12883B    | Bearings                                        | 2   | \$51.57  |
| 16   | 12882A    | Complete Pedestal Assembly                      | 1   | \$213.64 |
| 17   | 17040     | 5/16" -24 x 1.00" Cap Screw                     | 4   | \$3.71   |
| 18   | 17028     | EPDM Seal Assembly                              | 1   | \$67.98  |
| 18   | 17035*    | FKM (viton type) Seal Assembly                  | 1   | \$67.98  |
| 18   | 17035SD   | Severe Duty Seal                                | 1   | \$386.27 |
| 19   | 17042     | Stud                                            | 6   | \$1.94   |
| 20   | 17019     | 5/16"-18 x 3/4" Cap Screw                       | 8   | \$1.17   |
| 21   | 17009B    | 5/8" Impeller Nut                               | 1   | \$7.88   |
| 22   | 17130     | C Sink Flat Head Screw                          | 2   | \$2.42   |
| 23   | 12777     | Plug                                            | 1   | \$2.24   |
| 24   | UV15163   | O-Ring                                          | 1   | \$0.44   |
| N/S  | 17033     | Z Rails (Pair)                                  | 1   | \$27.83  |
| N/S  | 17100     | Repair Kit (Consists of items 4*, 5*, 7,10,18*) | 1   | \$234.08 |

# 2" Close Coupled C/I Electric Driven Self-Priming Pumps

## FEATURES

- Cast iron construction for rugged dependable service.
- Stainless steel shaft sleeve to protect engine shaft.
- Carbon ceramic seal with stainless steel cup and spring with FKM (viton type) rubber.
- Replaceable inlet and outlet flanges.
- Dynamically balanced impeller.

**CAUTION-WARNING:** Please do not run pumps dry, restrict or reduce port sizes or dead head pumps. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**



| 2" CAST IRON PUMPS W/ELECTRIC MOTORS |                                                        |     |     |            |
|--------------------------------------|--------------------------------------------------------|-----|-----|------------|
| PART NO                              | DESCRIPTION                                            | HP  | QTY | PRICE      |
| 234PIE3                              | 2" Cast Iron Pump w/3.0 HP Three Phase Electric Motor  | 3.0 | 1   | \$2,356.41 |
| 234PIE5                              | 2" Cast Iron Pump w/5.0 HP Three Phase Electric Motor  | 5.0 | 1   | \$2,771.58 |
| 234PIE51                             | 2" Cast Iron Pump w/5.0 HP Single Phase Electric Motor | 5.0 | 1   | \$3,531.26 |

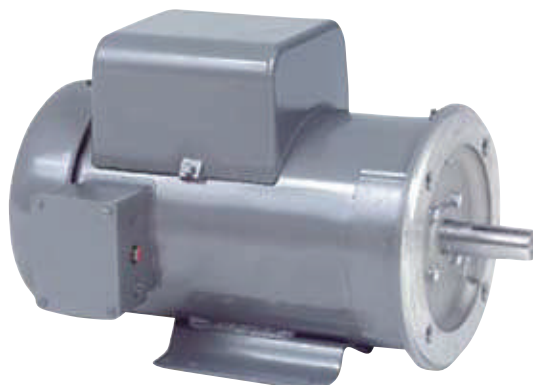
| 2" CAST IRON PUMP ONLY |                                               |     |     |            |
|------------------------|-----------------------------------------------|-----|-----|------------|
| PART NO                | DESCRIPTION                                   | HP  | QTY | PRICE      |
| 234POI                 | 2" Cast Iron Pump Only w/ 184TC Frame Adapter | N/A | 1   | \$1,211.84 |

**NOTE:** Truck shipments only. Motor warranty service available at authorized dealers.

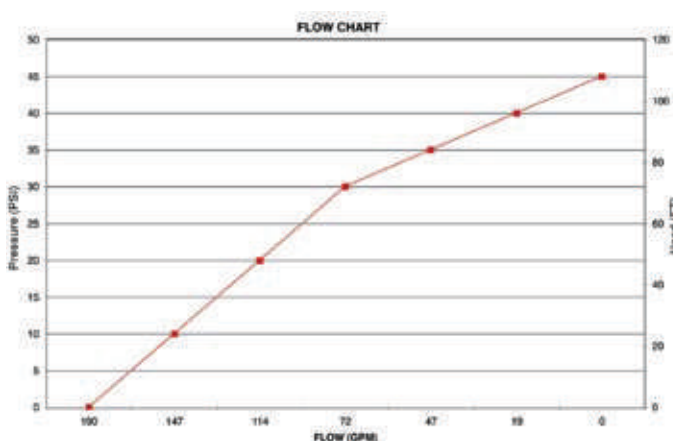
## COMPLETE PUMP WITH EFFICIENT INDUSTRIAL ELECTRIC MOTORS!

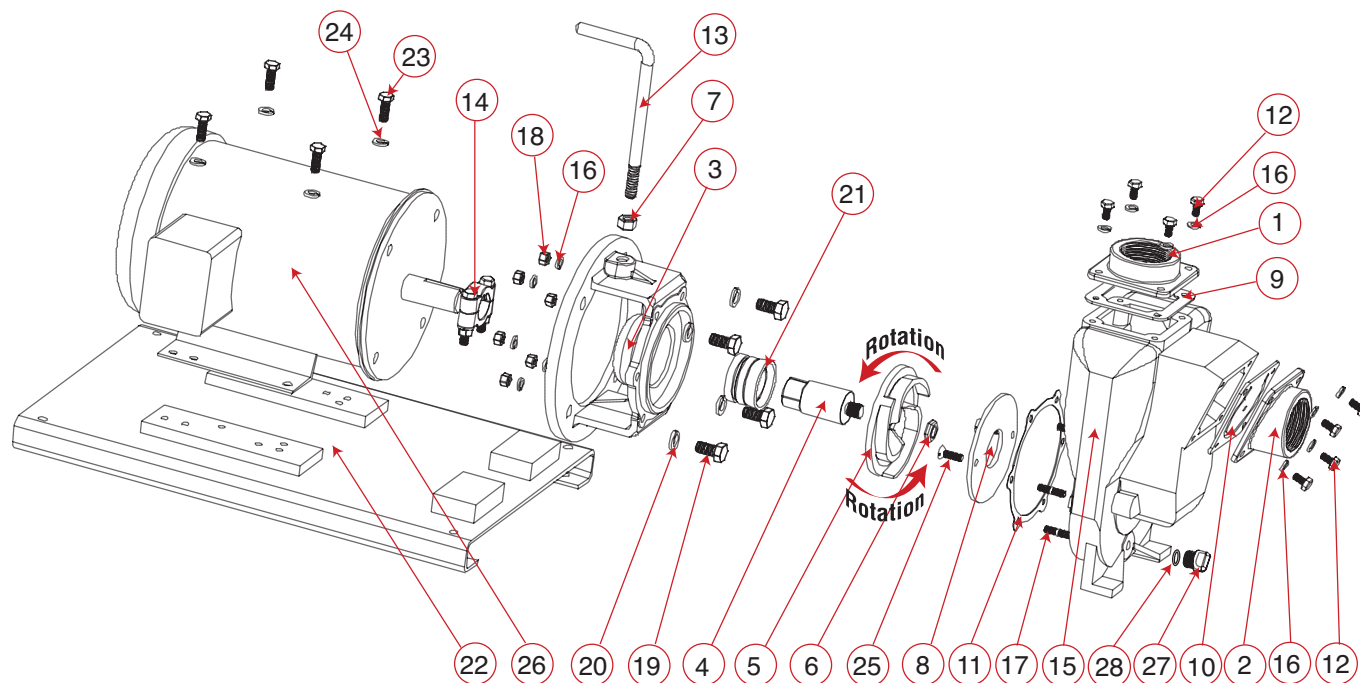
### MOTOR FEATURES:

- Pressure cast aluminum end plates with ribbed design for rigidity.
- Ball bearings, locked drive end bearing.
- Heavy gauge steel frame.
- Motors wound with inverter spike resistance magnet wire.
- Mounted complete on heavy duty cast iron base plate.
- 230 V Motors.



| POLYETHYLENE SUCTION BASKET STRAINER |                               |     |         |  |
|--------------------------------------|-------------------------------|-----|---------|--|
| PART NO                              | DESCRIPTION                   | QTY | PRICE   |  |
| 150SBS                               | 1½" Female Thread Poly Basket | 1   | \$15.16 |  |
| 200SBS                               | 2" Female Thread Poly Basket  | 1   | \$15.16 |  |
| 300SBS                               | 3" Female Thread Poly Basket  | 1   | \$34.19 |  |



**REPLACEMENT PARTS 234PIE3**

| ITEM | PART NO | DESCRIPTION           | QTY | PRICE      |
|------|---------|-----------------------|-----|------------|
| 1    | 17000   | Outlet Flange         | 1   | \$23.95    |
| 2    | 17002   | Inlet Flange          | 1   | \$27.07    |
| 3    | 17046   | C-Flange Adapter      | 1   | \$132.87   |
| 4    | 17007   | Impeller Shaft        | 1   | \$90.38    |
| 5    | 17008   | Impeller              | 1   | \$69.51    |
| 6    | 17009B  | 5/8" Impeller Nut     | 1   | \$7.88     |
| 7    | 17010   | 1/2" Hex Nut          | 1   | \$1.17     |
| 8    | 17011   | Wear Plate            | 1   | \$37.06    |
| 9    | 17013   | Outlet Gasket         | 1   | \$6.10     |
| 10   | 17016   | Gasket & Check Valve  | 1   | \$17.77    |
| 11   | 17018   | Gasket Adapter        | 1   | \$6.56     |
| 12   | 17019   | Bolt                  | 8   | \$1.17     |
| 13   | 15022   | Handle                | 1   | \$11.59    |
| 14   | 17024   | Clamp Assembly w/Key  | 1   | \$42.49    |
| 15   | 17026   | Pump Housing          | 1   | \$235.77   |
| 16   | V10118  | 5/16" Lock Washer     | 20  | \$0.42     |
| 17   | 17042   | Housing Stud          | 6   | \$1.94     |
| 18   | V10119  | Hex Nut               | 8   | \$0.56     |
| 19   | 17449   | Bolt                  | 4   | \$3.08     |
| 20   | 18058   | Washer                | 4   | \$0.71     |
| 21   | 17035   | Seal Assembly         | 1   | \$67.98    |
| 22   | 17701   | Base Plate Assembly   | 1   | \$278.12   |
| 23   | 17704   | Bolt                  | 4   | \$3.08     |
| 24   | V20018  | 3/8" Lock Washer      | 4   | \$0.42     |
| 25   | 17130   | Flat Head Screw       | 2   | \$2.42     |
| 26   | BEM3    | Electric Motor        | 1   | \$1,251.52 |
| 27   | 12777   | Drain Plug            | 1   | \$2.24     |
| 28   | UV15163 | O-Ring for Drain Plug | 1   | \$0.44     |

**REPLACEMENT PARTS 234PIE5 & 234PIE51**

| ITEM | PART NO | DESCRIPTION           | QTY | PRICE      |
|------|---------|-----------------------|-----|------------|
| 1    | 17000   | Outlet Flange         | 1   | \$23.95    |
| 2    | 17002   | Inlet Flange          | 1   | \$27.07    |
| 3    | 17446   | C-Flange Adapter      | 1   | \$200.87   |
| 4    | 17406   | Impeller Shaft        | 1   | \$131.35   |
| 5    | 17408   | Impeller              | 1   | \$132.87   |
| 6    | 17009B  | 5/8" Impeller Nut     | 1   | \$7.88     |
| 7    | 17010   | 1/2" Hex Nut          | 1   | \$1.17     |
| 8    | 17011   | Wear Plate            | 1   | \$37.06    |
| 9    | 17013   | Outlet Gasket         | 1   | \$6.10     |
| 10   | 17016   | Gasket & Check Valve  | 1   | \$17.77    |
| 11   | 17018   | Gasket Adapter        | 1   | \$6.56     |
| 12   | 17019   | Bolt                  | 8   | \$1.17     |
| 13   | 15022   | Handle                | 1   | \$11.59    |
| 14   | 18129   | Clamp Assembly w/Key  | 1   | \$49.45    |
| 15   | 17026   | Pump Housing          | 1   | \$235.77   |
| 16   | V10118  | 5/16" Lock Washer     | 20  | \$0.42     |
| 17   | 17042   | Housing Stud          | 6   | \$1.94     |
| 18   | V10119  | Hex Nut               | 8   | \$0.56     |
| 19   | 17449   | Bolt                  | 4   | \$3.08     |
| 20   | 18058   | Washer                | 4   | \$0.71     |
| 21   | 18025   | Seal Assembly         | 1   | \$112.01   |
| 22   | 17701   | Base Plate Assembly   | 1   | \$278.12   |
| 23   | 17704   | Bolt                  | 4   | \$3.08     |
| 24   | V20018  | 3/8" Lock Washer      | 4   | \$0.42     |
| 25   | 17130   | Flat Head Screw       | 2   | \$2.42     |
| 26   | BEM5    | Electric Motor        | 1   | \$1,514.18 |
| 26   | BEM51   | Electric Motor        | 1   | \$2,163.12 |
| 27   | 12777   | Drain Plug            | 1   | \$2.24     |
| 28   | UV15163 | O-Ring for Drain Plug | 1   | \$0.44     |

# 1½" & 2" C/I Hydraulic Motor Driven Self-Priming Pump

## PUMP FEATURES

- Rugged construction for dependable service.
- Carbon ceramic seal with stainless steel cup and spring with FKM (viton type) rubber.
- Replaceable inlet and outlet flanges.
- Dynamically balanced impeller.

## HYDRAULIC MOTOR FEATURES

- Hydraulic fluid capacity  
Minimum 6 Gallons / Maximum 10 Gallons.
- 12 H.P. Motor.
- Open or closed system.
- Minimum 500 P.S.I. / Maximum 2000 P.S.I.

**CAUTION-WARNING:** Please do not run pumps dry, restrict or reduce port sizes or dead head pumps. This could cause component failure to pump.

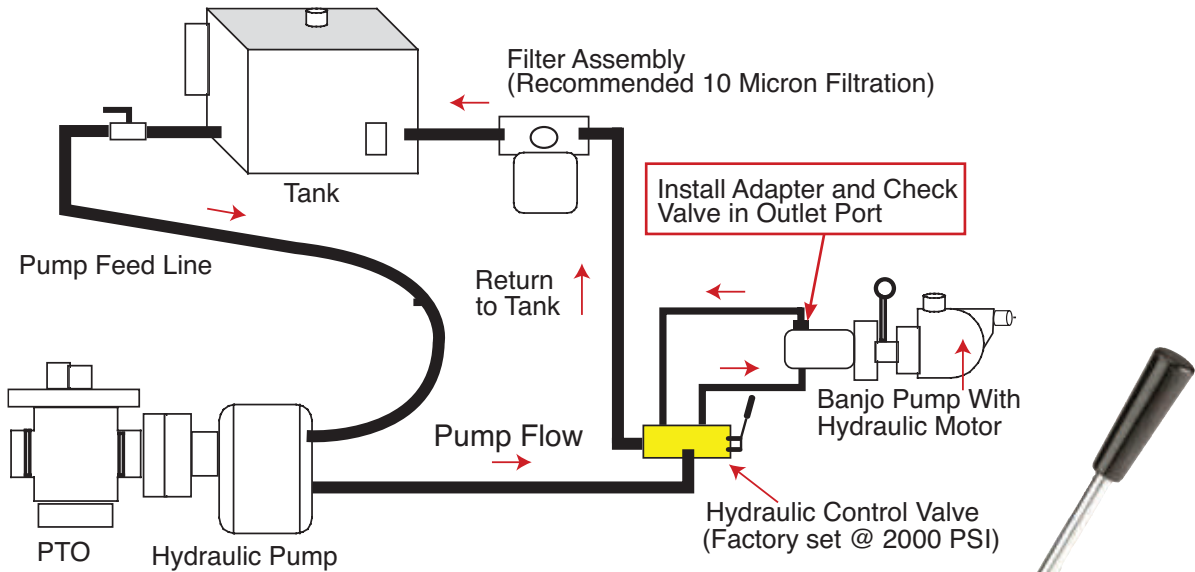
**DO NOT USE WITH FLAMMABLE LIQUIDS.**



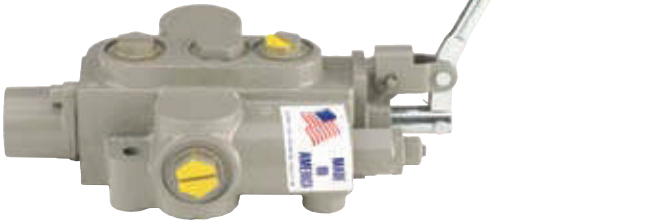
| 1½" CAST IRON HYDRAULIC PUMPS |                                            |    |     |            |
|-------------------------------|--------------------------------------------|----|-----|------------|
| PART NO                       | DESCRIPTION                                | HP | QTY | PRICE      |
| 150PIHY                       | 1½" Cast Iron Pump w/12 HP Hydraulic Motor | 12 | 1   | \$2,394.22 |

| 2" CAST IRON HYDRAULIC PUMPS |                                           |     |     |            |
|------------------------------|-------------------------------------------|-----|-----|------------|
| PART NO                      | DESCRIPTION                               | HP  | QTY | PRICE      |
| 200PIHY                      | 2" Cast Iron Pump w/12 HP Hydraulic Motor | 12  | 1   | \$2,394.22 |
| 200PIHA                      | 2" Cast Iron Pump Only without Motor      | N/A | 1   | \$911.60   |

## SPOOL VALVE ASSEMBLY DIAGRAM

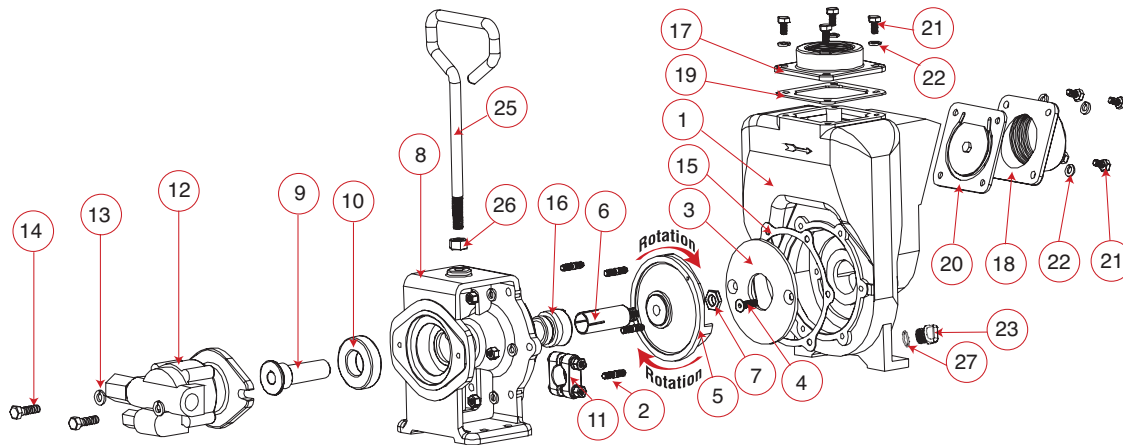


**Recommendation:**  
We recommend using the motor spool control valve or a suitable equivalent. The lack of such a valve in this circuit may cause failure to the hydraulic motor.



| HYDRAULIC MOTOR SPOOL VALVE |                             |     |     |          |
|-----------------------------|-----------------------------|-----|-----|----------|
| PART NO                     | DESCRIPTION                 | HP  | QTY | PRICE    |
| HSV1000                     | Hydraulic Motor Spool Valve | N/A | 1   | \$649.23 |



**HYDRAULIC MOTOR DATA**

|                        |                        |
|------------------------|------------------------|
| U.S. Gallons/Rev.      | 0.0025                 |
| Cubic Inches/Rev.      | 0.580                  |
| Liters/Rev.            | 0.0097                 |
| Max Hydraulic Pressure | 2000 PSI               |
| Min Hydraulic Pressure | 200 PSI                |
| Inlet Port             | SAE 10 (7/8-14 UNF-2B) |
| Outlet Port            | SAE 10 (7/8-14 UNF-2B) |
| Minimum GPM Required   | 6 GPM 2400 RPM         |
| Maximum GPM Required   | 10 GPM 4000 RPM        |
| Ideal GPM Required     | 9 GPM 3600 RPM         |

**CONNECTION INFORMATION**

|        |          |
|--------|----------|
| Inlet  | "A" Port |
| Outlet | "B" Port |

Supplied check valve is to ensure proper rotation of the Banjo pump. Place check valve in outlet port (marked "B") for proper right hand rotation.

**SPOOL VALVE INFORMATION**

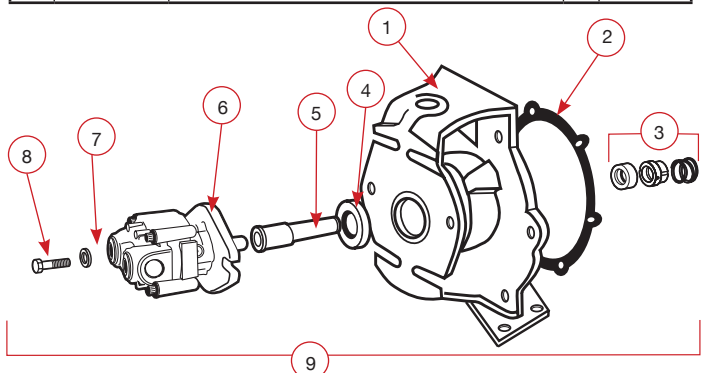
|                          |                            |
|--------------------------|----------------------------|
| Required Outlet Flow     | Min 8 GPM / Max 13 GPM     |
| Required System Pressure | Min 600 PSI / Max 3000 PSI |

**REPLACEMENT PARTS 1½" & 2" CAST IRON PUMPS**

| ITEM | PART NO | DESCRIPTION                                  | QTY | PRICE      |
|------|---------|----------------------------------------------|-----|------------|
| 1    | 17026   | Pump Housing                                 | 1   | \$235.77   |
| 2    | 17042   | Pump Housing Stud                            | 6   | \$1.94     |
| 3    | 17011   | Wear Plate                                   | 1   | \$37.06    |
| 4    | 17130   | 5/16"-18 x 1.00" Cap Screw                   | 2   | \$2.42     |
| 5    | 17008   | 5" Impeller                                  | 1   | \$69.51    |
| 6    | 17007   | 7/8" Sleeve Drive for Electric Motor         | 1   | \$90.38    |
| 7    | 17009B  | 5/8" Impeller Nut                            | 1   | \$7.88     |
| 8    | 17049A  | Hydraulic Adapter                            | 1   | \$283.69   |
| 9    | 17055A  | Hydraulic Adapter Shaft                      | 1   | \$119.78   |
| 10   | 17056   | SKF 6206-2RS1 Bearing                        | 1   | \$41.73    |
| 11   | 17024   | 7/8" Clamp, no key                           | 1   | \$42.49    |
| 12   | HY1013  | MGG@0025BC1D3 Hydraulic Motor Assembly       | 1   | \$1,264.49 |
| 13   | V20018  | 3/8" Lock Washer                             | 2   | \$0.42     |
| 14   | 18010SS | 3/8"-16 x 1.25" HHCS                         | 2   | \$1.86     |
| 15   | 17018   | Gasket Adapter                               | 1   | \$6.56     |
| 16   | 17028   | EPDM Seal Assembly                           | 1   | \$67.98    |
| 16   | 17035   | FKM (viton type) Seal Assembly               | 1   | \$67.98    |
| 16   | 17035SD | Severe Duty Seal Assembly                    | 1   | \$386.27   |
| 17   | 17000   | 2" Outlet Flange                             | 1   | \$23.95    |
| 17   | 17001   | 1½" Outlet Flange                            | 1   | \$23.95    |
| 18   | 17002   | 2" Inlet Flange                              | 1   | \$27.07    |
| 18   | 17003   | 1½" Inlet Flange                             | 1   | \$27.07    |
| 19   | 17013   | EPDM Gasket                                  | 1   | \$6.10     |
| 20   | 17016   | Gasket Check Valve Assembly                  | 1   | \$17.77    |
| 21   | 17019   | 5/16" -18 x 0.75" Cap Screw                  | 8   | \$1.17     |
| 22   | V10118  | 5/16" Split Lock Washer                      | 14  | \$0.42     |
| 23   | 12777   | Plug                                         | 1   | \$2.24     |
| 24   | V10119  | 5/16"-18 Hex Nut                             | 6   | \$0.56     |
| 25   | 15022   | Handle                                       | 1   | \$11.59    |
| 26   | 17010   | ½" Hex Nut - 13UNF-RH                        | 1   | \$1.17     |
| 27   | UV15163 | O-Ring                                       | 1   | \$0.44     |
| N/S  | 17100   | Repair Kit (Consists of items 3, 5, 15, 16*) | 1   | \$234.08   |

**REPLACEMENT PARTS 1½" & 2" HYDRAULIC ADAPTER**

| ITEM | PART NO | DESCRIPTION                         | QTY | PRICE      |
|------|---------|-------------------------------------|-----|------------|
| 1    | 17049A  | Hydraulic Motor Adapter             | 1   | \$283.69   |
| 2    | 17018   | Gasket Adapter                      | 1   | \$6.56     |
| 3    | 17035   | Seal Assembly                       | 1   | \$67.98    |
| N/S  | 17007   | 7/8" SS Shaft Sleeve                | 1   | \$90.38    |
| N/S  | 12214A  | Shim                                | 1   | \$8.69     |
| 4    | 17056   | SKF 6206-2RS1 Bearing               | 1   | \$41.73    |
| 5    | 17055A  | Hydraulic Adapter Shaft             | 1   | \$119.78   |
| 6    | HY1013  | Gresen® Hydraulic Motor             | 1   | \$1,264.49 |
| 7    | V20018  | Lock Washer                         | 2   | \$0.42     |
| 8    | 18010SS | Bolt                                | 2   | \$1.86     |
| 9    | 17600A  | Hydraulic Motor Conversion Assembly | 1   | \$1,681.57 |





# 3" Gas Driven Cast Iron Self-Priming Centrifugal Pump

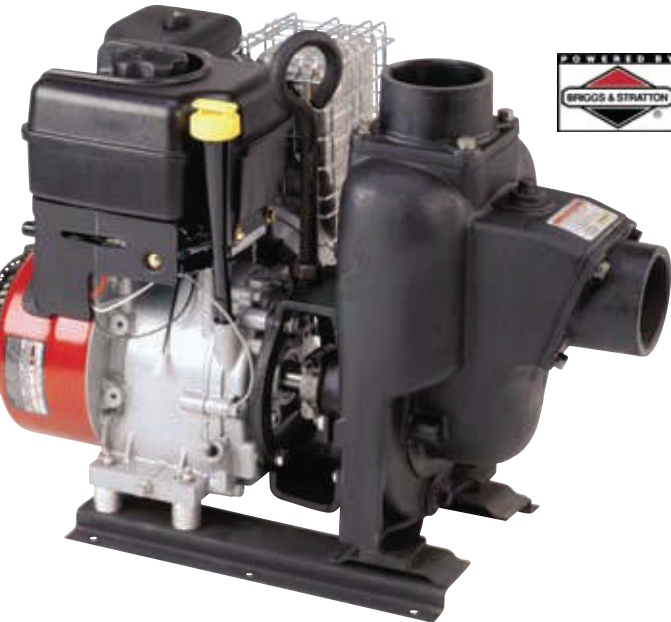
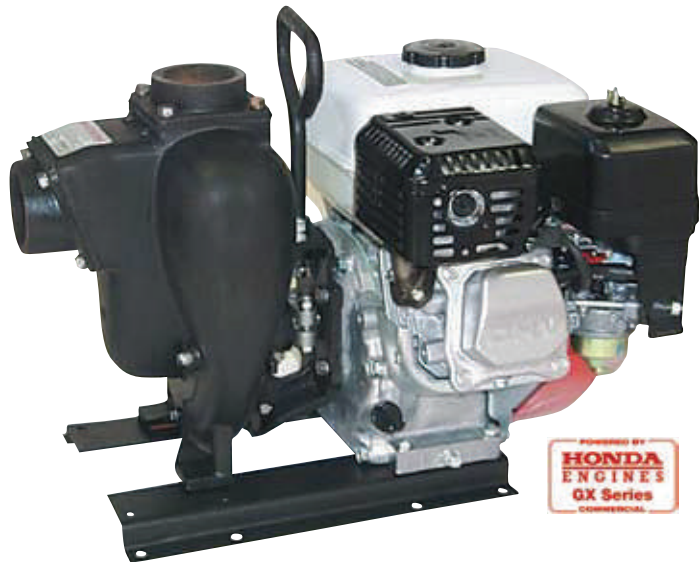
## FEATURES

- Cast iron construction for rugged dependable service.
- Stainless steel shaft sleeve to protect engine shaft.
- Carbon ceramic seal with stainless steel cup and spring with FKM (viton type) rubber.
- Replaceable inlet and outlet flanges.
- Dynamically balanced impeller.

**CAUTION-WARNING:** Please do not run pumps dry, restrict or reduce port sizes or dead head pumps. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**

| 3" CAST IRON PUMPS W/GAS ENGINES |                                                                      |    |     |            |
|----------------------------------|----------------------------------------------------------------------|----|-----|------------|
| PART NO                          | DESCRIPTION                                                          | HP | QTY | PRICE      |
| 300PIH-8                         | 3" Cast Iron Pump w/8 HP Honda® Engine w/Electric Start & Pull Rope  | 8  | 1   | \$4,693.94 |
| 300PI11PRO                       | 3" Cast Iron Pump w/11 HP Briggs & Stratton® Engine Pro Series       | 11 | 1   | \$3,188.41 |
| 300PIH-11                        | 3" Cast Iron Pump w/11 HP Honda® Engine w/Electric Start & Pull Rope | 11 | 1   | \$5,075.56 |
| 300PIH13                         | 3" Cast Iron Pump w/13 HP Honda® Engine w/Electric Start & Pull Rope | 13 | 1   | \$5,376.86 |

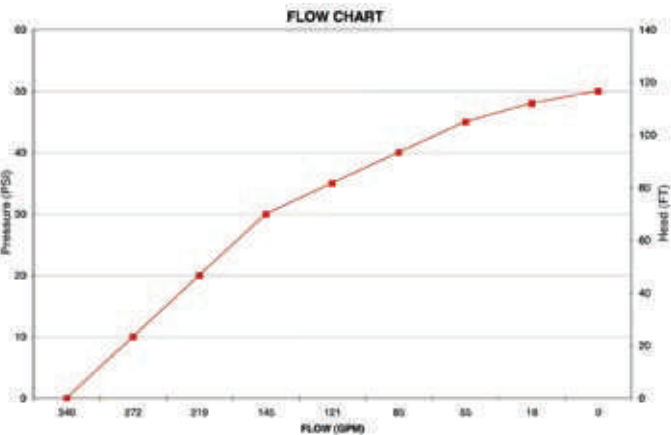


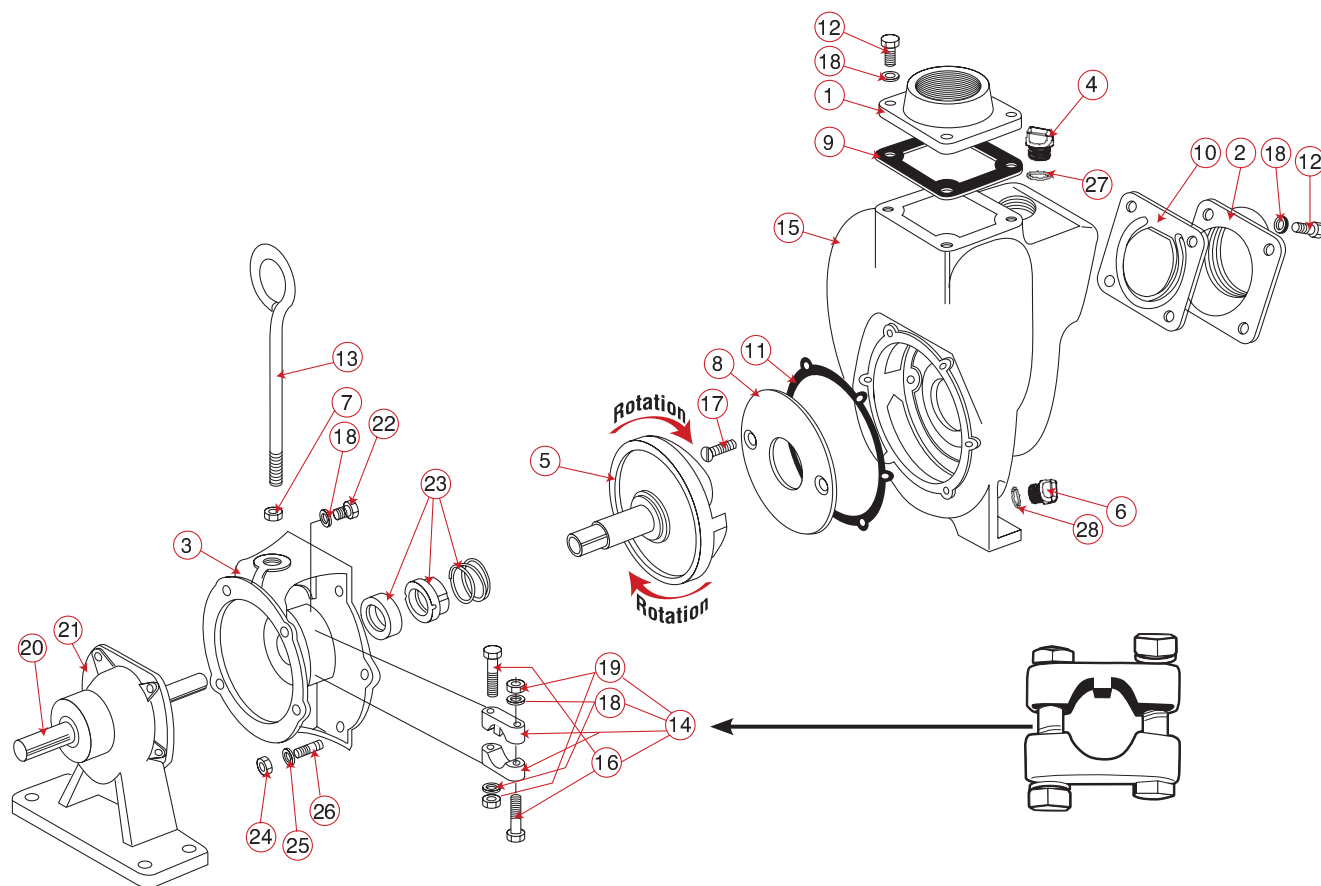
**NOTE:** Engine warranty service available at authorized Briggs & Stratton and Honda dealers.

**\*SHIPPING:** Truck shipments only.



| 3" CAST IRON PUMP MANIFOLD FLANGES |                           |     |         |
|------------------------------------|---------------------------|-----|---------|
| PART NO                            | DESCRIPTION               | QTY | PRICE   |
| M18008                             | 3" Manifold Outlet Flange | 1   | \$50.22 |
| M18012                             | 3" Manifold Inlet Flange  | 1   | \$50.22 |



**REPLACEMENT PARTS 3" CAST IRON PUMPS**

| ITEM | PART NO     | DESCRIPTION                                      | QTY | PRICE    |
|------|-------------|--------------------------------------------------|-----|----------|
| 1    | 18008       | NPT Outlet Flange                                | 1   | \$47.05  |
| 1    | M18008      | 3" Manifold Outlet Flange                        | 1   | \$50.22  |
| 2    | 18012       | NPT Inlet Flange                                 | 1   | \$50.22  |
| 2    | M18012      | 3" Manifold Inlet Flange                         | 1   | \$50.22  |
| 3    | 18026       | Adapter for Gas Engine & Bearing Pedestal        | 1   | \$151.71 |
| 3    | 18048       | C-Flange Adapter                                 | 1   | \$228.66 |
| 3    | 18049       | Hydraulic Motor Adapter                          | 1   | \$304.39 |
| N/S  | 18055       | Hydraulic Adapter Shaft                          | 1   | \$44.03  |
| 4    | 13777       | Plug                                             | 1   | \$2.95   |
| 5    | 18023       | 1" Impeller & Drive Shaft for Gas Engine         | 1   | \$271.94 |
| 5    | 18023-1.125 | 1 1/8" Impeller & Drive Shaft for Electric Motor | 1   | \$271.94 |
| 6    | 12777       | Plug                                             | 1   | \$2.24   |
| 7    | 18034       | 5/8" SS Jam Nut                                  | 1   | \$3.16   |
| 8    | 18004       | Wear Plate                                       | 1   | \$60.26  |
| 9    | 18009       | EPDM Outlet Gasket                               | 1   | \$9.45   |
| 10   | 18013       | Gasket Check Valve Assembly                      | 1   | \$46.20  |
| 11   | 18021       | Adapter Gasket                                   | 1   | \$7.34   |
| 12   | 18010SS     | 3/8" - 16 x 1 1/8" SS Cap Screw HXHD             | 8   | \$1.86   |
| 13   | 18033       | Handle                                           | 1   | \$18.16  |

**REPLACEMENT PARTS 3" CAST IRON PUMPS**

| ITEM | PART NO | DESCRIPTION                                             | QTY | PRICE    |
|------|---------|---------------------------------------------------------|-----|----------|
| 14   | 18029   | Clamp Assembly (Old Style)                              | 1   | \$49.45  |
| 14   | 18129   | Clamp Assembly (New Style)                              | 1   | \$49.45  |
| 15   | 18001   | Pump Housing                                            | 1   | \$614.94 |
| 16   | 18030   | 3/8" -24 x 2 1/4" Bolt                                  | 2   | \$4.39   |
| 17   | 18106   | Wear Plate Flat Head Screw                              | 2   | \$2.42   |
| 18   | V20018  | 3/8" Lock Washer                                        | 8   | \$0.42   |
| 19   | 18032   | 3/8" x 24 SS Hex Nut                                    | 2   | \$0.76   |
| 20   | 18504   | 1" Shaft                                                | 1   | \$61.18  |
| 21   | 18500   | Bearing Pedestal                                        | 1   | \$440.36 |
| N/S  | 18502   | Bearing SKF 66306-2RS1/C3                               | 2   | \$134.40 |
| 22   | 17704   | Bolt                                                    | 4   | \$3.08   |
| 23   | 18025   | FKM (viton type) Seal Assembly                          | 1   | \$112.01 |
| 23   | 18025SD | Severe Duty Seal                                        | 1   | \$432.61 |
| 24   | V20019  | 3/8" 16 SS Hex Nut                                      | 6   | \$1.03   |
| 25   | V20018  | 3/8" SS Lock Washer                                     | 6   | \$0.42   |
| 26   | 18218   | 3/8" -16 x 3/8" -24 x 1 1/2" SS Stud                    | 6   | \$17.49  |
| 27   | 13778   | O-Ring                                                  | 1   | \$1.86   |
| 28   | UV15163 | O-Ring                                                  | 1   | \$0.44   |
| N/S  | 18035   | Z-Rail Mounting Bracket (Pair)                          | 1   | \$43.73  |
| N/S  | 18100   | Repair Kit (Consist of items 5, 8, 11, 17, 23, & 18005) | 1   | \$358.45 |

# 3" Cast Iron Pump Only & Bearing Pedestal Pumps

## FEATURES

- Pump Only packs complete and ready for attachment to gasoline engine.
- Pedestal pump for long coupling to electric motor.

\*See page 192 for available base plate.

## IMPORTANT

- Banjo Pumps will not self-prime if a 1750 RPM motor is used.
- Recommended horsepower, listed below, is for water only. Heavier fluids may require additional horsepower or a trimmed impeller.



| 3" CAST IRON PUMP ONLY |                                     |     |     |            |
|------------------------|-------------------------------------|-----|-----|------------|
| PART NO                | DESCRIPTION                         | HP  | QTY | PRICE      |
| 300POI                 | 3" Cast Iron Pump Only for 1" Shaft | N/A | 1   | \$1,682.43 |

\*Truck shipments only

| 3" CAST IRON BEARING PEDESTAL |                                          |     |     |            |
|-------------------------------|------------------------------------------|-----|-----|------------|
| PART NO                       | DESCRIPTION                              | HP  | QTY | PRICE      |
| 300PBI                        | 3" Cast Iron Bearing Pedestal w/1" Shaft | N/A | 1   | \$1,960.40 |

\*Truck shipments only

| 3" CAST IRON C-FLANGE PUMPS |                                                              |     |     |            |
|-----------------------------|--------------------------------------------------------------|-----|-----|------------|
| PART NO                     | DESCRIPTION                                                  | HP  | QTY | PRICE      |
| 300POICF*                   | 3" Cast Iron C-Flange Pump w/1 $\frac{1}{8}$ " Shaft Sleeve* | N/A | 1   | \$1,960.40 |

\*Truck shipments only

Note: \* Recommend: 7 $\frac{1}{2}$  HP, 3450 RPM, 184TC Frame Size for close coupling to electric motors.



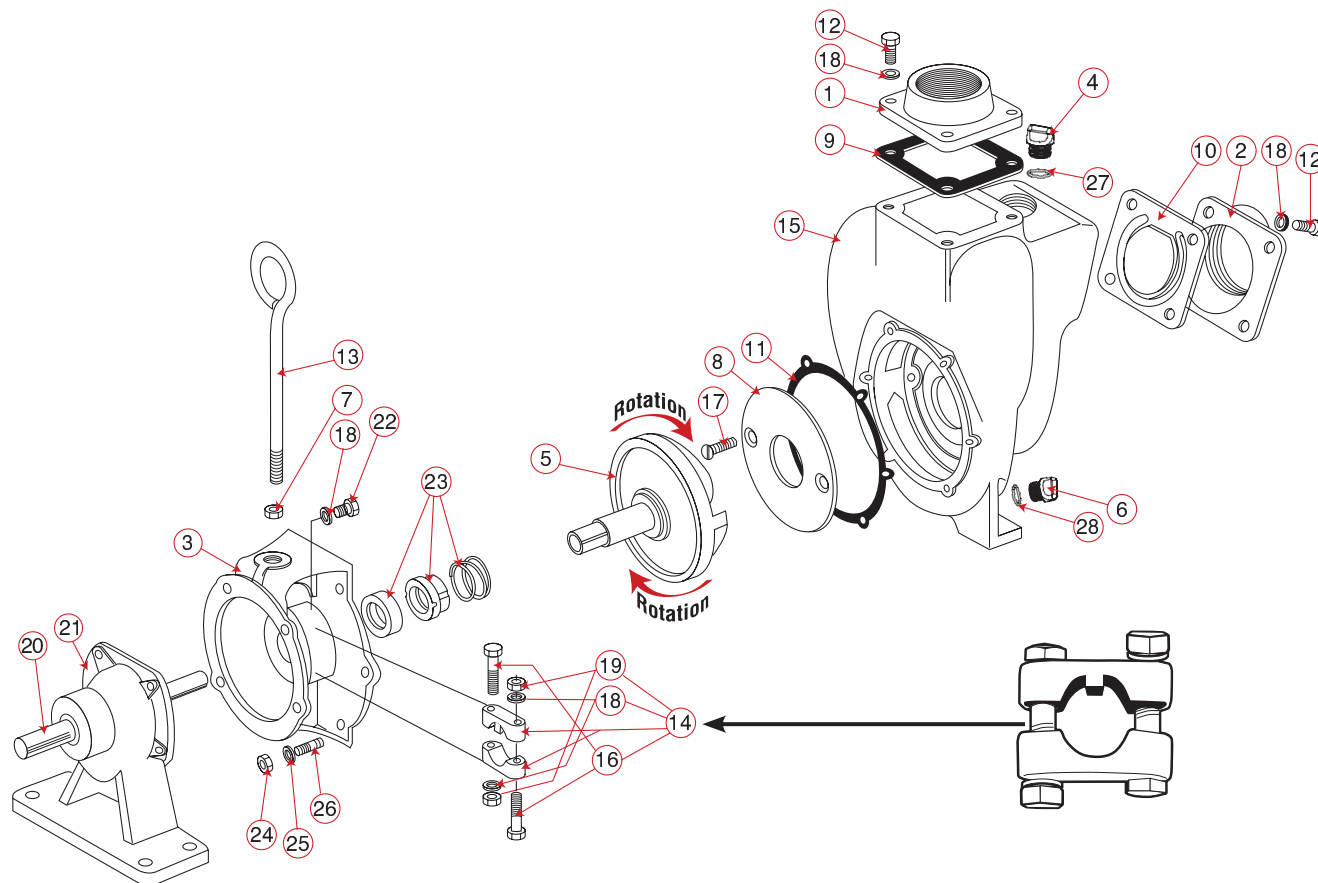
**CAUTION-WARNING:** Please do not run pumps dry, restrict or reduce port sizes or dead head pumps. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**

| 3" CAST IRON PUMP MANIFOLD FLANGES |                           |     |         |
|------------------------------------|---------------------------|-----|---------|
| PART NO                            | DESCRIPTION               | QTY | PRICE   |
| M18008                             | 3" Manifold Outlet Flange | 1   | \$50.22 |
| M18012                             | 3" Manifold Inlet Flange  | 1   | \$50.22 |

| POLYETHYLENE SUCTION BASKET STRAINER |                                             |     |         |
|--------------------------------------|---------------------------------------------|-----|---------|
| PART NO                              | DESCRIPTION                                 | QTY | PRICE   |
| 150SBS                               | 1 $\frac{1}{2}$ " Female Thread Poly Basket | 1   | \$15.16 |
| 200SBS                               | 2" Female Thread Poly Basket                | 1   | \$15.16 |
| 300SBS                               | 3" Female Thread Poly Basket                | 1   | \$34.19 |



**REPLACEMENT PARTS 3" CAST IRON PUMPS**

| ITEM | PART NO     | DESCRIPTION                                      | QTY | PRICE    |
|------|-------------|--------------------------------------------------|-----|----------|
| 1    | 18008       | NPT Outlet Flange                                | 1   | \$47.05  |
| 1    | M18008      | 3" Manifold Outlet Flange                        | 1   | \$50.22  |
| 2    | 18012       | NPT Inlet Flange                                 | 1   | \$50.22  |
| 2    | M18012      | 3" Manifold Inlet Flange                         | 1   | \$50.22  |
| 3    | 18026       | Adapter for Gas Engine & Bearing Pedestal        | 1   | \$151.71 |
| 3    | 18048       | C-Flange Adapter                                 | 1   | \$228.66 |
| 3    | 18049       | Hydraulic Motor Adapter                          | 1   | \$304.39 |
| N/S  | 18055       | Hydraulic Adapter Shaft                          | 1   | \$44.03  |
| 4    | 13777       | Plug                                             | 1   | \$2.95   |
| 5    | 18023       | 1" Impeller & Drive Shaft for Gas Engine         | 1   | \$271.94 |
| 5    | 18023-1.125 | 1 1/8" Impeller & Drive Shaft for Electric Motor | 1   | \$271.94 |
| 6    | 12777       | Plug                                             | 1   | \$2.24   |
| 7    | 18034       | 5/8" SS Jam Nut                                  | 1   | \$3.16   |
| 8    | 18004       | Wear Plate                                       | 1   | \$60.26  |
| 9    | 18009       | EPDM Outlet Gasket                               | 1   | \$9.45   |
| 10   | 18013       | Gasket Check Valve Assembly                      | 1   | \$46.20  |
| 11   | 18021       | Adapter Gasket                                   | 1   | \$7.34   |
| 12   | 18010SS     | 3/8" - 16 x 1 1/8" SS Cap Screw HXHD             | 8   | \$1.86   |
| 13   | 18033       | Handle                                           | 1   | \$18.16  |

**REPLACEMENT PARTS 3" CAST IRON PUMPS**

| ITEM | PART NO | DESCRIPTION                                        | QTY | PRICE    |
|------|---------|----------------------------------------------------|-----|----------|
| 14   | 18029   | Clamp Assembly (Old Style)                         | 1   | \$49.45  |
| 14   | 18129   | Clamp Assembly (New Style)                         | 1   | \$49.45  |
| 15   | 18001   | Pump Housing                                       | 1   | \$614.94 |
| 16   | 18030   | 3/8" -24 x 2 1/4" Bolt                             | 2   | \$4.39   |
| 17   | 18106   | Wear Plate Flat Head Screw                         | 2   | \$2.42   |
| 18   | V20018  | 3/8" Lock Washer                                   | 8   | \$0.42   |
| 19   | 18032   | 3/8" x 24 SS Hex Nut                               | 2   | \$0.76   |
| 20   | 18504   | 1" Shaft                                           | 1   | \$61.18  |
| 21   | 18500   | Bearing Pedestal                                   | 1   | \$440.36 |
| N/S  | 18502   | Bearing SKF 66306-2RS1/C3                          | 2   | \$134.40 |
| 22   | 17704   | Bolt                                               | 4   | \$3.08   |
| 23   | 18025   | FKM (viton type) Seal Assembly                     | 1   | \$112.01 |
| 23   | 18025SD | Severe Duty Seal                                   | 1   | \$432.61 |
| 24   | V20019  | 3/8" 16 SS Hex Nut                                 | 6   | \$1.03   |
| 25   | V20018  | 3/8" SS Lock Washer                                | 6   | \$0.42   |
| 26   | 18218   | 3/8" -16 x 3/8" -24 x 1 1/2" SS Stud               | 6   | \$17.49  |
| 27   | 13778   | O-Ring                                             | 1   | \$1.86   |
| 28   | UV15163 | O-Ring                                             | 1   | \$0.44   |
| N/S  | 18035   | Z-Rail Mounting Bracket (Pair)                     | 1   | \$43.73  |
| N/S  | 18100   | Repair Kit (Consist of items 5, 8, 11, 17 & 18005) | 1   | \$358.45 |

# 3" Hydraulic Motor Driven Self-Priming Pump

## PUMP FEATURES

- Rugged construction for dependable service.
- Carbon ceramic seal with stainless steel cup and spring with FKM (viton type) rubber.
- Replaceable inlet and outlet flanges.
- Dynamically balanced impeller.

## HYDRAULIC MOTOR

- Hydraulic fluid capacity  
Minimum 9 Gallons / Maximum 13 Gallons.
- 21 H.P. Motor.
- Open system.
- Minimum 600 P.S.I. / Maximum 3000 P.S.I.

**CAUTION-WARNING:** Please do not run pumps dry, restrict or reduce port sizes or dead head pumps. This could cause component failure to pump.

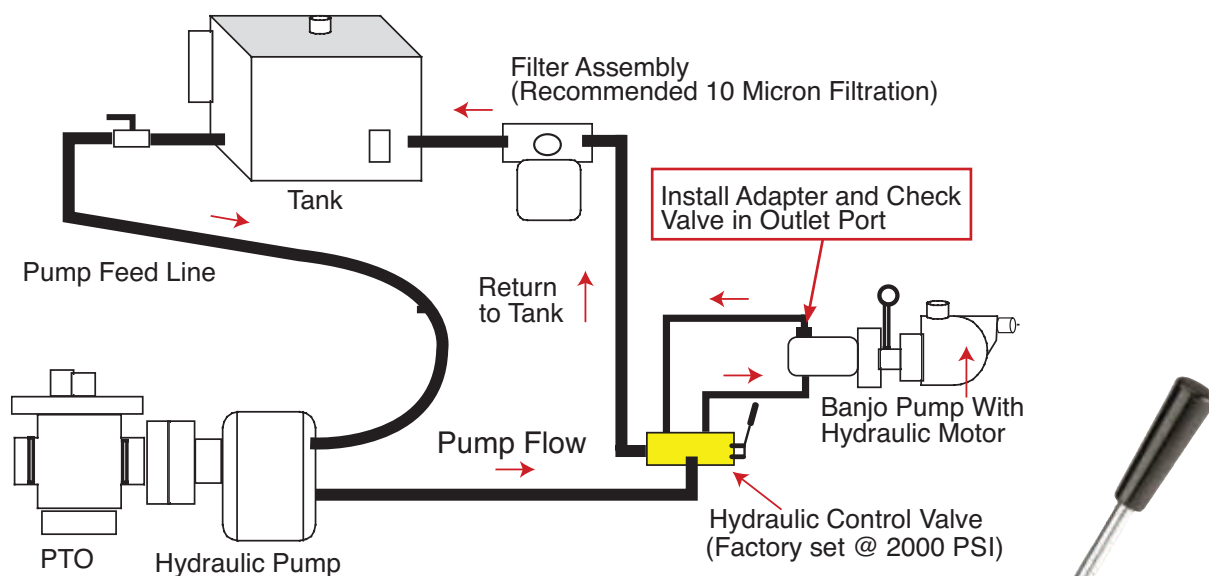
**DO NOT USE WITH FLAMMABLE LIQUIDS.**



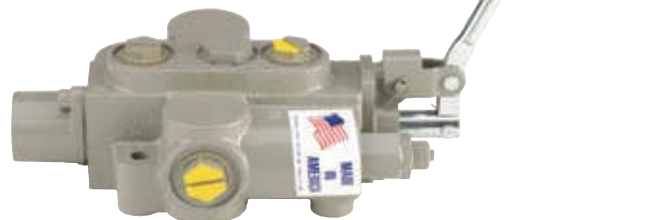
## 3" CAST IRON HYDRAULIC PUMPS

| PART NO | DESCRIPTION                               | HP | QTY | PRICE      |
|---------|-------------------------------------------|----|-----|------------|
| 300PIHY | 3" Cast Iron Pump w/21 HP Hydraulic Motor | 21 | 1   | \$4,861.28 |

## SPOOL VALVE ASSEMBLY DIAGRAM



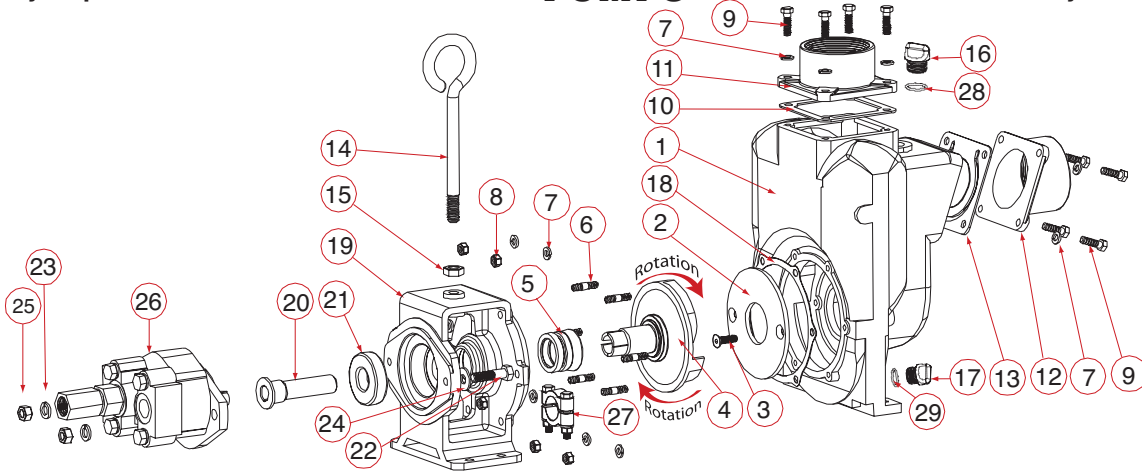
**Recommendation:**  
We recommend using the motor spool control valve or a suitable equivalent. The lack of such a valve in this circuit may cause failure to the hydraulic motor.



## HYDRAULIC MOTOR SPOOL VALVE

| PART NO | DESCRIPTION                 | HP  | QTY | PRICE    |
|---------|-----------------------------|-----|-----|----------|
| HSV1000 | Hydraulic Motor Spool Valve | N/A | 1   | \$649.23 |



**HYDRAULIC MOTOR DATA**

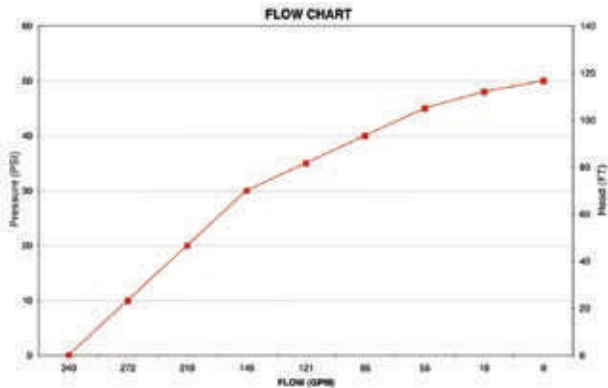
|                        |                 |
|------------------------|-----------------|
| U.S. Gallons/Rev.      | 0.0038          |
| Cubic Inches/Rev.      | 0.878           |
| Liters/Rev.            | 0.0144          |
| Max Hydraulic Pressure | 3000 PSI        |
| Min Hydraulic Pressure | 600 PSI         |
| Inlet Port             | 1-1/16-12UN-2B  |
| Outlet Port            | 1-5/16-12UN-2B  |
| Minimum GPM Required   | 9 GPM 2370 RPM  |
| Maximum GPM Required   | 13 GPM 3450 RPM |
| Ideal GPM Required     | 9 GPM 3600 RPM  |

**CONNECTION INFORMATION**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Inlet                                                                                                                                                                                                                                                                                                                                                                                                                                           | "A" Port |
| Outlet                                                                                                                                                                                                                                                                                                                                                                                                                                          | "B" Port |
| Supplied check valve is to ensure proper rotation of the Banjo pump. Place check valve in outlet port (marked "B") for proper right hand rotation. It is recommended that a minimum 3/4" inlet line & a minimum 1" outlet line be used. The outlet port must be connected directly back to the hydraulic fluid reservoir & not to any valving, regulators or flow diverters. The outlet port/return line back pressure must not exceed 250 PSI. |          |

**SPOOL VALVE INFORMATION**

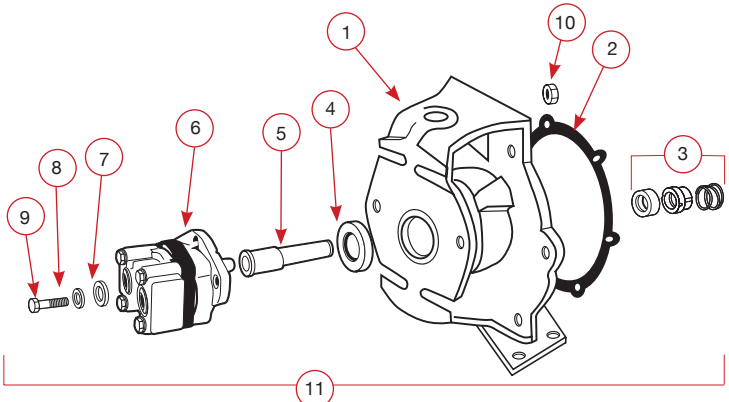
|                          |                            |
|--------------------------|----------------------------|
| Required Outlet Flow     | Min 9 GPM / Max 13 GPM     |
| Required System Pressure | Min 600 PSI / Max 3000 PSI |

**REPLACEMENT PARTS 3" HYDRAULIC ADAPTER**

| ITEM | PART NO | DESCRIPTION                      | QTY | PRICE      |
|------|---------|----------------------------------|-----|------------|
| 1    | 18049   | C-Flange Hydraulic Motor Adapter | 1   | \$304.39   |
| 2    | 18021   | Gasket Adapter                   | 1   | \$7.34     |
| 3    | 18025   | Seal Assembly                    | 1   | \$112.01   |
| 4    | 18502   | SKF 63306-2RS1/C3 Bearing        | 1   | \$134.40   |
| 5    | 18055   | Hydraulic Adapter Shaft Sleeve   | 1   | \$44.03    |
| 6    | HY1012  | Tyrone® UM16 Hydraulic Motor     | 1   | \$1,451.43 |
| 7    | 18059   | 1/2" Flat Washer                 | 2   | \$2.01     |
| 8    | 18058   | 1/2" Split Lock Washer           | 2   | \$0.71     |
| 9    | 18056   | 1/2" - 13" x 2" HHCS Bolt        | 2   | \$4.61     |
| 10   | 17010   | 1/2" Hex Nut                     | 2   | \$1.17     |
| 11   | 18600   | Hydraulic Motor Adapter Assembly | 1   | \$1,963.04 |

**REPLACEMENT PARTS 3" CAST IRON HYDRAULIC PUMPS**

| ITEM | PART NO | DESCRIPTION                                    | QTY | PRICE      |
|------|---------|------------------------------------------------|-----|------------|
| 1    | 18001   | Pump Housing                                   | 1   | \$614.94   |
| 2    | 18004   | Wear Plate                                     | 1   | \$60.26    |
| 3    | 18106   | 3/8" - 16 x 1.25" HHCS                         | 2   | \$2.42     |
| 4    | 18023   | Impeller & Drive Shaft                         | 1   | \$271.94   |
| 5    | 18025   | FKM (viton type) Mechanical Seal               | 1   | \$112.01   |
| 5    | 18025SD | Severe Duty Seal                               | 1   | \$432.61   |
| 6    | 18218   | Pump Housing Stud                              | 6   | \$17.49    |
| 7    | V20018  | 3/8" 16 SS Lock Washer                         | 14  | \$0.42     |
| 8    | V20019  | 3/8" 16 SS Hex Nut                             | 6   | \$1.03     |
| 9    | 18010SS | 3/8" - 16 x 1.25" HHCS                         | 8   | \$1.86     |
| 10   | 18009   | EPDM Outlet Gasket                             | 1   | \$9.45     |
| 11   | 18008   | NPT Outlet Flange                              | 1   | \$47.05    |
| 12   | 18012   | NPT Inlet Flange                               | 1   | \$50.22    |
| 13   | 18013   | Inlet/Check EPDM Gasket                        | 1   | \$46.20    |
| 14   | 18033   | Handle                                         | 1   | \$18.16    |
| 15   | 18034   | 5/8" - 11 Hex Nut                              | 1   | \$3.16     |
| 16   | 13777   | Plug                                           | 1   | \$2.95     |
| 17   | 12777   | Plug                                           | 1   | \$2.24     |
| 18   | 18021   | Adapter Gasket                                 | 1   | \$7.34     |
| 19   | 18049   | Hydraulic Motor Adapter                        | 1   | \$304.39   |
| 20   | 18055   | Hydraulic Adapter Shaft                        | 1   | \$44.03    |
| 21   | 18502   | Bearing SKF 66306-2RS1/C3                      | 1   | \$134.40   |
| 22   | 18056   | 1/2" - 13 x 2" HHCS                            | 2   | \$4.61     |
| 23   | 18058   | 1/2" Split Washer                              | 2   | \$0.71     |
| 24   | 18059   | 1/2" Flat Washer                               | 2   | \$2.01     |
| 25   | 17010   | 1/2" - 13 Hex Nut                              | 2   | \$1.17     |
| 26   | HY1012  | UM16-45A-HX Hydraulic Motor Assembly           | 1   | \$1,451.43 |
| 27   | 18029   | Clamp Assembly Unkeyed                         | 1   | \$49.45    |
| 28   | 13778   | O-Ring                                         | 1   | \$1.86     |
| 29   | UV15163 | O-Ring                                         | 1   | \$0.44     |
| N/S  | 18100   | Repair Kit (Consist of 2, 3, 4, 5, 18 & 18005) | 1   | \$358.45   |



# 2" Wet Seal Cast Iron Self-Priming Centrifugal Pump

## FEATURES

- Run Dry Capability!
- FKM (viton type) double seal contained in ethylene glycol reservoir.
- Dynamically balanced impeller.
- All stainless steel hardware.
- Available in cast iron or 316 stainless steel, with bearing pedestal, gas engine or pump only.



| 2" CAST IRON WET SEAL PUMPS W/GAS ENGINES |                                                                          |     |     |            |
|-------------------------------------------|--------------------------------------------------------------------------|-----|-----|------------|
| PART NO                                   | DESCRIPTION                                                              | HP  | QTY | PRICE      |
| 201PIH5W                                  | 2" Cast Iron Wet Seal Pump w/5.5 HP Honda® Engine                        | 5.5 | 1   | \$2,686.45 |
| 201PI6PROW                                | 2" Cast Iron Wet Seal Pump w/6.5 HP Briggs & Stratton® Engine Pro Series | 6.5 | 1   | \$2,249.90 |

Truck shipments only.



Seal reservoir double seals!

\*See page 192 for available base plate.



Bearing Pedestal  
3/4" shaft for electric motors



Pump Only  
for gas engine

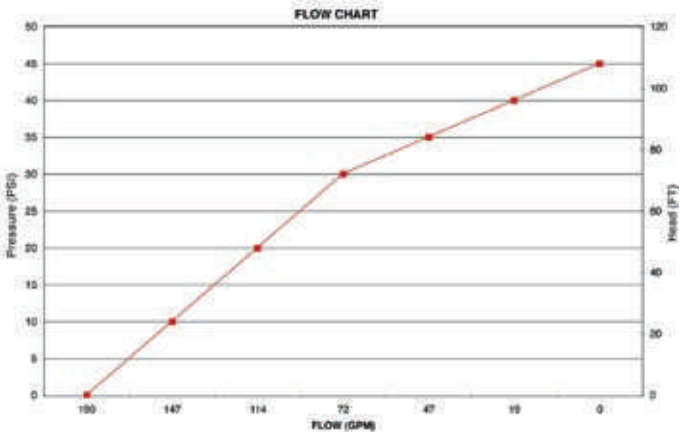
| POLYETHYLENE SUCTION BASKET STRAINER |                               |     |         |
|--------------------------------------|-------------------------------|-----|---------|
| PART NO                              | DESCRIPTION                   | QTY | PRICE   |
| 150SBS                               | 1½" Female Thread Poly Basket | 1   | \$15.16 |
| 200SBS                               | 2" Female Thread Poly Basket  | 1   | \$15.16 |
| 300SBS                               | 3" Female Thread Poly Basket  | 1   | \$34.19 |

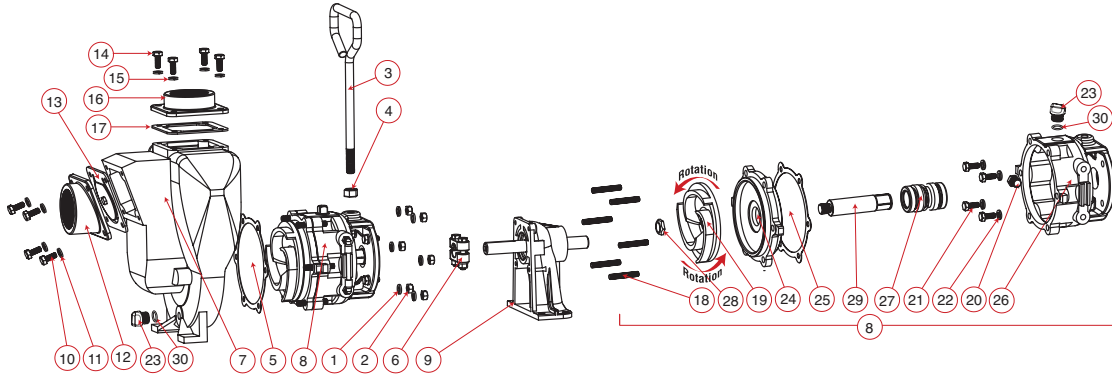


| 2" CAST IRON WET SEAL BEARING PEDESTALS |                                               |     |     |            |
|-----------------------------------------|-----------------------------------------------|-----|-----|------------|
| PART NO                                 | DESCRIPTION                                   | HP  | QTY | PRICE      |
| 201PBIW                                 | 2" Cast Iron Wet Seal Pump w/Bearing Pedestal | N/A | 1   | \$1,415.98 |

| 2" CAST IRON WET SEAL PUMP ONLYS |                                 |     |     |            |
|----------------------------------|---------------------------------|-----|-----|------------|
| PART NO                          | DESCRIPTION                     | HP  | QTY | PRICE      |
| 201POIW                          | 2" Cast Iron Wet Seal Pump Only | N/A | 1   | \$1,203.31 |

DO NOT USE WITH FLAMMABLE LIQUIDS.

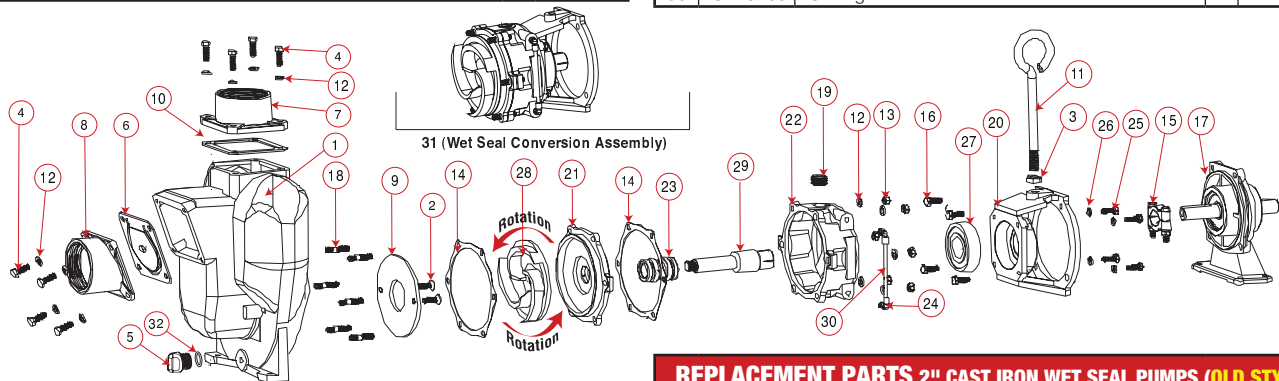


**REPLACEMENT PARTS 2" CAST IRON WET SEAL PUMPS (NEW STYLE)**

| ITEM | PART NO | DESCRIPTION                           | QTY | PRICE      |
|------|---------|---------------------------------------|-----|------------|
| 1    | V10118  | 5/16" Lock Washer                     | 6   | \$0.42     |
| 2    | V10119  | 5/16" -18 Hex Nut                     | 6   | \$0.56     |
| 3    | 15022   | Handle                                | 1   | \$11.59    |
| 4    | 17010   | 1/2" Hex Nut                          | 1   | \$1.17     |
| 5    | 17018   | Gasket Adapter                        | 1   | \$6.56     |
| 6    | 17123   | 5/8" Clamp, 3/4" Shaft Assembly Keyed | 1   | \$42.49    |
| 7    | 17226   | Pump Housing                          | 1   | \$235.77   |
| 8    | 17200A  | Wet Seal Assembly                     | 1   | \$1,120.20 |
| 9    | 12882A  | Bearing Pedestal                      | 1   | \$213.64   |
| 10   | 17019   | 5/16"-18 x 3/4" HHCS                  | 4   | \$1.17     |
| 11   | V10118  | 5/16" Lock Washer                     | 4   | \$0.42     |
| 12   | 17002   | Inlet Flange                          | 1   | \$27.07    |
| 13   | 17016   | EPDM Check Valve Gasket Assembly      | 1   | \$17.77    |
| 14   | 17019   | 5/16" -18 x 3/4" HHCS                 | 4   | \$1.17     |
| 15   | V10118  | 5/16" Lock Washer                     | 4   | \$0.42     |

**REPLACEMENT PARTS 2" CAST IRON WET SEAL PUMPS (NEW STYLE)**

| ITEM | PART NO | DESCRIPTION                               | QTY | PRICE    |
|------|---------|-------------------------------------------|-----|----------|
| 16   | 17000   | Outlet Flange                             | 1   | \$23.95  |
| 17   | 17013   | EPDM Outlet Gasket                        | 1   | \$6.10   |
| 18   | 17242   | Housing Stud                              | 6   | \$5.80   |
| 19   | 17208   | Impeller                                  | 1   | \$73.38  |
| 20   | 17032   | Pipe Plug                                 | 1   | \$2.09   |
| 21   | 17019   | 5/16"-18 x 3/4" Cap Screw                 | 4   | \$1.17   |
| 22   | V10118  | 5/16" Lock Washer                         | 4   | \$0.42   |
| 23   | 12777   | Fill Plug                                 | 2   | \$2.24   |
| 24   | 17202   | Cover Plate                               | 1   | \$67.98  |
| 25   | 17018   | Gasket Adapter                            | 1   | \$6.56   |
| 26   | 17201A  | Reservoir                                 | 1   | \$108.93 |
| 27   | 17235   | FKM (viton type) Mechanical Seal Assembly | 1   | \$151.41 |
| 28   | 17009B  | 5/8" Impeller Nut                         | 1   | \$7.88   |
| 29   | 17206A  | Adapter Shaft                             | 1   | \$78.80  |
| 30   | UV15163 | O-Ring                                    | 2   | \$0.44   |

**REPLACEMENT PARTS 2" CAST IRON WET SEAL PUMPS (OLD STYLE)**

| ITEM | PART NO | DESCRIPTION                              | QTY | PRICE    |
|------|---------|------------------------------------------|-----|----------|
| 1    | 17026   | Pump Housing                             | 1   | \$235.77 |
| 2    | 17130   | Flat Head C Sink Screw                   | 2   | \$2.42   |
| 3    | 17010   | 1/2" Hex Nut                             | 1   | \$1.17   |
| 4    | 17019   | 5/16" Cap Screw                          | 8   | \$1.17   |
| 5    | 12777   | Drain Plug                               | 1   | \$2.24   |
| 6    | 17016   | EPDM Gasket                              | 1   | \$17.77  |
| 7    | 17000   | 2" Outlet Flange                         | 1   | \$23.95  |
| 8    | 17002   | 2" Inlet Flange                          | 1   | \$27.07  |
| 9    | 17011   | Wear Plate                               | 1   | \$37.06  |
| 10   | 17013   | EPDM Outlet Gasket                       | 1   | \$6.10   |
| 11   | 15022   | Handle                                   | 1   | \$11.59  |
| 12   | V10118  | 5/16" Lock Washer                        | 18  | \$0.42   |
| 13   | V10119  | 5/16" -18 SS Hex Nut                     | 8   | \$0.56   |
| 14   | 17018   | Gasket Adapter                           | 2   | \$6.56   |
| 15   | 17023   | 5/8" Clamp for 3/4" Shaft Assembly       | 1   | \$42.49  |
| 15   | 17123   | 5/8" Clamp for 3/4" Shaft Assembly Keyed | 1   | \$42.49  |
| 15   | 17024   | 7/8" Clamp Shaft Assembly                | 1   | \$42.49  |

**REPLACEMENT PARTS 2" CAST IRON WET SEAL PUMPS (OLD STYLE)**

| ITEM | PART NO | DESCRIPTION                                       | QTY | PRICE      |
|------|---------|---------------------------------------------------|-----|------------|
| 16   | 17040   | 5/16" -24 x 1" HHCS                               | 4   | \$3.71     |
| 17   | 12882A  | Bearing Pedestal                                  | 1   | \$213.64   |
| 18   | 17242   | Housing Stud                                      | 6   | \$5.80     |
| 19   | 17210   | 1/2" Fill Plug                                    | 1   | \$2.79     |
| 20   | 17203A  | Wet Seal Adapter                                  | 1   | \$68.16    |
| 21   | 17202   | Cover Plate                                       | 1   | \$67.98    |
| 22   | 17201   | Reservoir                                         | 1   | \$108.93   |
| 23   | 17235   | FKM (viton type) Seal Assembly                    | 1   | \$151.41   |
| 24   | 17211   | 3/16" Legris Male Elbow                           | 2   | \$17.77    |
| 25   | 17019   | 5/16" - 18 x 3/4" Bolt                            | 4   | \$1.17     |
| 26   | V10118  | 5/16" Lock Washer                                 | 4   | \$0.42     |
| 27   | 12213A  | Bearing                                           | 1   | \$199.23   |
| 28   | 17208   | Impeller                                          | 1   | \$73.38    |
| 29   | 17206   | 3/4" Sleeve Drive                                 | 1   | \$78.80    |
| 30   | 17212   | Liquid Level Tube                                 | 1   | \$1.86     |
| 31   | 17200   | Wet Seal Assembly Conversion                      | 1   | \$1,120.20 |
| 32   | UV15163 | O-Ring                                            | 1   | \$0.44     |
| N/S  | 17100W  | Pump Repair Kit (Consist of 2, 10, 15, 25, 29-32) | 1   | \$383.20   |

# 3" Wet Seal Cast Iron Self-Priming Centrifugal Pump

## FEATURES

- New compact design!
- Run Dry Capability!
- Durable cast iron construction.
- Dynamically balanced impeller.
- Replaceable inlet & outlet flanges.
- Graphite loaded silicon carbide seal with stainless steel cup and spring with FKM (viton type) rubber.
- Pump end separated from engine.
- Double seal contained in ethylene glycol reservoir.
- 350 gallons per minute.
- 63 P.S.I. maximum pressure.



Seal reservoir  
Double Seals!



| 3" CAST IRON WET SEAL PUMPS W/GAS ENGINES |                                                                                |    |     |            |
|-------------------------------------------|--------------------------------------------------------------------------------|----|-----|------------|
| PART NO                                   | DESCRIPTION                                                                    | HP | QTY | PRICE      |
| 301PIH13W                                 | 3" Cast Iron Wet Seal Pump w/13 HP Honda® Engine w/ Electric Start & Pull Rope | 13 | 1   | \$5,251.10 |

\*Truck shipments only.

DO NOT USE WITH FLAMMABLE LIQUIDS.



Bearing Pedestal  
1" shaft for electric motors

Pump Only  
for gas engine

| 3" CAST IRON WET SEAL BEARING PEDESTALS |                                               |     |     |            |
|-----------------------------------------|-----------------------------------------------|-----|-----|------------|
| PART NO                                 | DESCRIPTION                                   | HP  | QTY | PRICE      |
| 301PBIW                                 | 3" Cast Iron Wet Seal Pump w/Bearing Pedestal | N/A | 1   | \$3,750.85 |

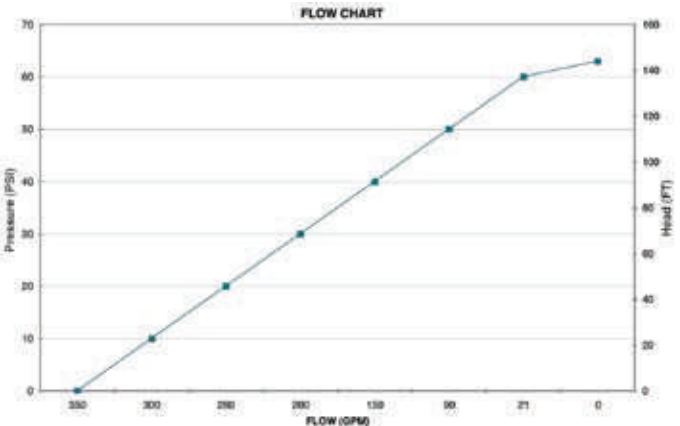
| 3" CAST IRON WET SEAL PUMP ONLYS |                                 |     |     |            |
|----------------------------------|---------------------------------|-----|-----|------------|
| PART NO                          | DESCRIPTION                     | HP  | QTY | PRICE      |
| 301POIW                          | 3" Cast Iron Wet Seal Pump Only | N/A | 1   | \$3,041.64 |

\*Truck shipments only.

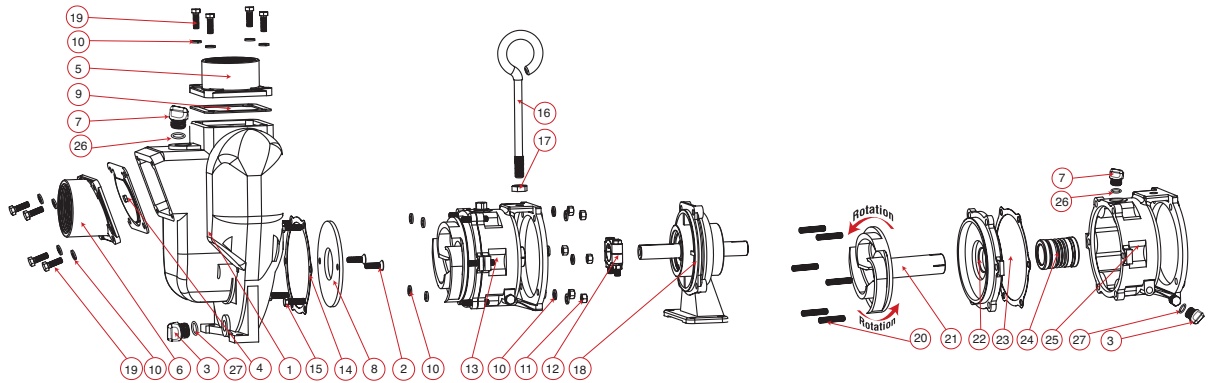
\*See page 192 for available base plate.



| POLYETHYLENE SUCTION BASKET STRAINER |                               |     |         |
|--------------------------------------|-------------------------------|-----|---------|
| PART NO                              | DESCRIPTION                   | QTY | PRICE   |
| 150SBS                               | 1½" Female Thread Poly Basket | 1   | \$15.16 |
| 200SBS                               | 2" Female Thread Poly Basket  | 1   | \$15.16 |
| 300SBS                               | 3" Female Thread Poly Basket  | 1   | \$34.19 |



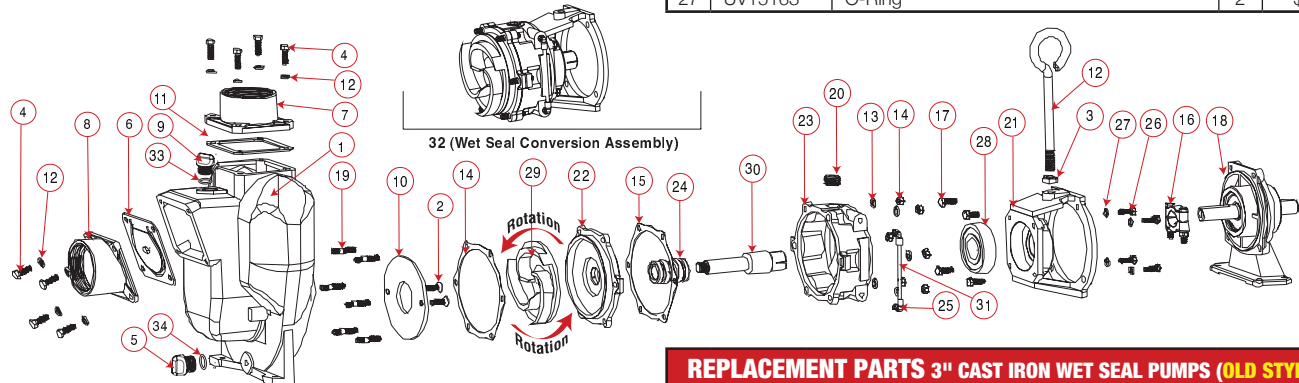


**REPLACEMENT PARTS 3" CAST IRON WET SEAL PUMPS (NEW STYLE)**

| ITEM | PART NO | DESCRIPTION                | QTY | PRICE      |
|------|---------|----------------------------|-----|------------|
| 1    | 18001   | Pump Housing               | 1   | \$614.94   |
| 2    | 18106   | Flat Head Socket Cap Screw | 2   | \$2.42     |
| 3    | 12777   | Fill Plug                  | 2   | \$2.24     |
| 4    | 18013   | Inlet/Check EPDM Gasket    | 1   | \$46.20    |
| 5    | 18008   | NPT Outlet Flange          | 1   | \$47.05    |
| 6    | 18012   | NPT Inlet Flange           | 1   | \$50.22    |
| 7    | 13777   | Plug                       | 2   | \$2.95     |
| 8    | 18004   | Wear Plate                 | 1   | \$60.26    |
| 9    | 18009   | EPDM Outlet Gasket         | 1   | \$9.45     |
| 10   | V20018  | 3/8" Lock Washer           | 18  | \$0.42     |
| 11   | V20019  | 3/8" 16 SS Hex Nut         | 6   | \$1.03     |
| 12   | 18129   | Clamp Assembly Keyed       | 1   | \$49.45    |
| 13   | 18200A  | Wet Seal Assembly          | 1   | \$1,375.11 |

**REPLACEMENT PARTS 3" CAST IRON WET SEAL PUMPS (NEW STYLE)**

| ITEM | PART NO | DESCRIPTION              | QTY | PRICE    |
|------|---------|--------------------------|-----|----------|
| 14   | 18021   | Adapter Gasket           | 1   | \$7.34   |
| 15   | 17704   | 3/8" -16 x 1 1/4" HHCS   | 4   | \$3.08   |
| 16   | 18033   | Handle                   | 1   | \$18.16  |
| 17   | 18034   | 5/8" -11 Jam Nut         | 1   | \$3.16   |
| 18   | 18500   | Bearing Pedestal         | 1   | \$440.36 |
| 19   | 18010SS | 3/8" - 16 x 1 1/8" HHCS  | 8   | \$1.86   |
| 20   | 18218   | Pump Housing Stud        | 6   | \$17.49  |
| 21   | 18206   | Impeller                 | 1   | \$324.58 |
| 22   | 18202A  | Cover Plate              | 1   | \$137.74 |
| 23   | 18021   | Adapter Gasket           | 1   | \$7.34   |
| 24   | 15035   | Mechanical Seal Assembly | 1   | \$222.14 |
| 25   | 18203A  | Wet Seal Reservoir       | 1   | \$191.63 |
| 26   | 13778   | O-Ring                   | 2   | \$1.86   |
| 27   | UV15163 | O-Ring                   | 2   | \$0.44   |

**REPLACEMENT PARTS 3" CAST IRON WET SEAL PUMPS (OLD STYLE)**

| ITEM | PART NO | DESCRIPTION                | QTY | PRICE    |
|------|---------|----------------------------|-----|----------|
| 1    | 18001   | Pump Housing               | 1   | \$614.94 |
| 2    | 18106   | Flat Head Socket Cap Screw | 2   | \$2.42   |
| 3    | 18034   | 5/8" -11 Jam Nut           | 1   | \$3.16   |
| 4    | 18010SS | 3/8" - 16 x 1 1/8" HHCS    | 8   | \$1.86   |
| 5    | 12777   | Plug                       | 1   | \$2.24   |
| 6    | 18013   | Inlet/Check EPDM Gasket    | 1   | \$46.20  |
| 7    | 18008   | NPT Outlet Flange          | 1   | \$47.05  |
| 8    | 18012   | NPT Inlet Flange           | 1   | \$50.22  |
| 9    | 13777   | Plug                       | 1   | \$2.95   |
| 10   | 18004   | Wear Plate                 | 1   | \$60.26  |
| 11   | 18009   | EPDM Outlet Gasket         | 1   | \$9.45   |
| 12   | 18033   | Handle                     | 1   | \$18.16  |
| 13   | V20018  | 3/8" Lock Washer           | 18  | \$0.42   |
| 14   | V20019  | 3/8" 16 SS Hex Nut         | 6   | \$1.03   |
| 15   | 18021   | Adapter Gasket             | 1   | \$7.34   |
| 16   | 18029   | Clamp Assembly             | 1   | \$49.45  |
| 16   | 18129   | Clamp Assembly Keyed       | 1   | \$49.45  |

**REPLACEMENT PARTS 3" CAST IRON WET SEAL PUMPS (OLD STYLE)**

| ITEM | PART NO | DESCRIPTION                                       | QTY | PRICE      |
|------|---------|---------------------------------------------------|-----|------------|
| 17   | 17704   | 3/8" -16 x 1 1/4" HHCS                            | 4   | \$3.08     |
| 18   | 18500   | Bearing Pedestal                                  | 1   | \$440.36   |
| 19   | 18218   | Pump Housing Stud                                 | 6   | \$17.49    |
| 20   | 18205   | 3/4" Fill Plug                                    | 1   | \$2.79     |
| 21   | 18203   | Wet Seal Adapter                                  | 1   | \$154.13   |
| 22   | 18202   | Cover Plate                                       | 1   | \$132.49   |
| 23   | 18201   | Reservoir                                         | 1   | \$225.19   |
| 24   | 17235   | FKM (viton type) Seal Assembly                    | 1   | \$151.41   |
| 25   | 17211   | 3/16" Legris Male Elbow                           | 2   | \$17.77    |
| 26   | 17040   | 5/16" - 24 x 3/4" Bolt                            | 4   | \$3.71     |
| 27   | V10118  | 5/16" Lock Washer                                 | 4   | \$0.42     |
| 28   | 18204   | Bearing                                           | 1   | \$183.87   |
| 29   | 18223   | Impeller                                          | 1   | \$324.46   |
| 30   | 18222   | Shaft                                             | 1   | \$204.70   |
| 31   | 17212   | Liquid Level Tube                                 | 1   | \$1.86     |
| 32   | 18200   | Wet Seal Assembly Conversion                      | 1   | \$1,375.11 |
| 33   | 13778   | O-Ring                                            | 2   | \$1.86     |
| 34   | UV15163 | O-Ring                                            | 2   | \$0.44     |
| N/S  | 18100W  | Pump Repair Kit (Consist of 2, 10, 15, 25, 29-32) | 1   | \$497.52   |



# M222 Series Manifold Wet Seal Cast Iron Self-Priming Centrifugal Pump

## FEATURES

- Durable cast iron construction.
- Dynamically balanced impeller.
- Carbon ceramic seal with stainless steel cup and spring with FKM (viton type) rubber.
- Pump end separated from engine.
- Large weep holes between pump end and engine or motor.
- "V" Shaped for quicker priming.

**NEW!**

**Run Dry Capability!**

**DO NOT USE WITH FLAMMABLE LIQUIDS.**



**Wet seal reservoir double seals!**

## 2" MANIFOLD WET SEAL CI PUMPS W/GAS ENGINES

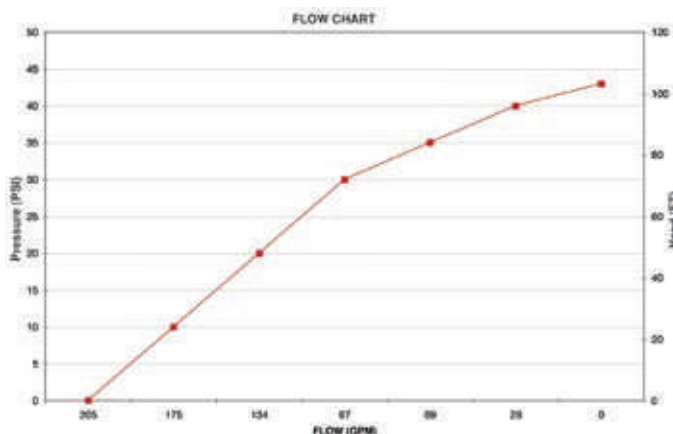
| PART NO     | DESCRIPTION                                                                       | HP  | QTY | PRICE      |
|-------------|-----------------------------------------------------------------------------------|-----|-----|------------|
| M222PI6PROW | 2" Manifold Cast Iron Wet Seal Pump w/6.5 HP Briggs & Stratton® Pro Series Engine | 6.5 | 1   | \$1,930.89 |
| M222PIH6W   | 2" Manifold Cast Iron Wet Seal Pump w/6.5 HP Honda® Engine                        | 6.5 | 1   | \$2,363.08 |

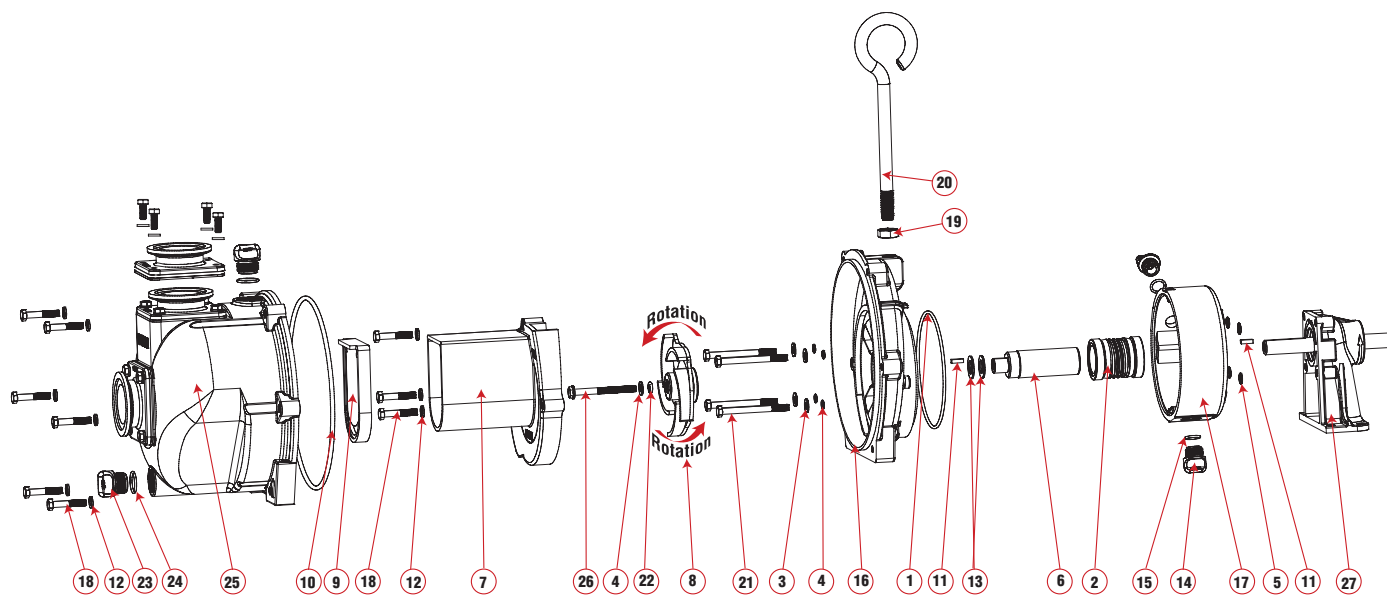
## 2" MANIFOLD WET SEAL CI PUMPS W/ELECTRIC MOTORS

| PART NO    | DESCRIPTION                                                           | HP | QTY | PRICE      |
|------------|-----------------------------------------------------------------------|----|-----|------------|
| M222PIE5W  | 2" Manifold Cast Iron Wet Seal Pump w/5HP Three Phase Electric Motor  | 5  | 1   | \$3,141.50 |
| M222PIE51W | 2" Manifold Cast Iron Wet Seal Pump w/5HP Single Phase Electric Motor | 5  | 1   | \$3,697.70 |

## 2" MANIFOLD WET SEAL CI PUMPS W/BEARING PEDESTAL

| PART NO  | DESCRIPTION                                                      | HP  | QTY | PRICE      |
|----------|------------------------------------------------------------------|-----|-----|------------|
| M222PBIW | 2" Manifold Cast Iron Wet Seal Pump w/Bearing Pedestal w/¾ Shaft | N/A | 1   | \$1,498.65 |



**REPLACEMENT PARTS M222 WET SEAL CAST IRON PUMPS**

| ITEM | PART NO | DESCRIPTION              | QTY | PRICE    |
|------|---------|--------------------------|-----|----------|
| 1    | 13719   | O-Ring                   | 1   | \$2.64   |
| 2    | 15035   | Mechanical Seal Assembly | 1   | \$222.14 |
| 3    | 12901   | 5/16" Flat Washer        | 4   | \$0.44   |
| 4    | 12717   | O-Ring for Bracket Screw | 4   | \$0.66   |
| 5    | 12709   | O-Ring                   | 4   | \$0.70   |
| 6    | 15055   | Adapter Shaft            | 1   | \$109.70 |
| 7    | 15702   | Volute                   | 1   | \$99.66  |
| 8    | 15772   | 5 Vane Impeller          | 1   | \$64.89  |
| 9    | 12705   | Check Valve              | 1   | \$15.16  |
| 10   | 12719A  | Body O-Ring              | 1   | \$13.26  |
| 11   | 12902A  | Impeller Key             | 2   | \$1.55   |
| 12   | V10118  | 5/16" Lock Washer        | 9   | \$0.42   |
| 13   | CV10175 | Gasket                   | 2   | \$1.30   |
| 14   | 12777   | Prime/Drain Plug         | 2   | \$2.24   |

**REPLACEMENT PARTS M222 WET SEAL CAST IRON PUMPS**

| ITEM | PART NO | DESCRIPTION              | QTY | PRICE    |
|------|---------|--------------------------|-----|----------|
| 15   | UV15163 | O-Ring                   | 2   | \$0.44   |
| 16   | 15703W  | Rear Bracket             | 1   | \$165.83 |
| 17   | 15201W  | Wet Seal Reservoir       | 1   | \$109.70 |
| 18   | 12715A  | 5/16" - 24 x 1 3/4" HHCS | 9   | \$3.69   |
| 19   | 18034   | 5/8" - 11 Jam Nut        | 1   | \$3.16   |
| 20   | 18033   | Pump Handle              | 1   | \$18.16  |
| 21   | V10117  | 5/16" - 18 x 3 1/2" HFS  | 4   | \$1.38   |
| 22   | A203V   | O-Ring                   | 1   | \$1.55   |
| 23   | 13777   | 3/4" Drain Plug          | 2   | \$2.95   |
| 24   | 13778   | O-Ring                   | 2   | \$1.86   |
| 25   | M15712  | Pump Body                | 1   | \$200.85 |
| 26   | 12766   | 5/16" - 24 x 3 1/4" HFS  | 1   | \$6.47   |
| 27   | 12882A  | Bearing Pedestal         | 1   | \$213.64 |

# M332 Series Manifold Wet Seal Cast Iron Self-Priming Centrifugal Pump



## FEATURES

- Durable cast iron construction.
- Dynamically balanced impeller.
- Carbon ceramic seal with stainless steel cup and spring with FKM (viton type) rubber.
- Pump end separated from engine.
- Large weep holes between pump end and engine or motor.
- “V” Shaped for quicker priming.

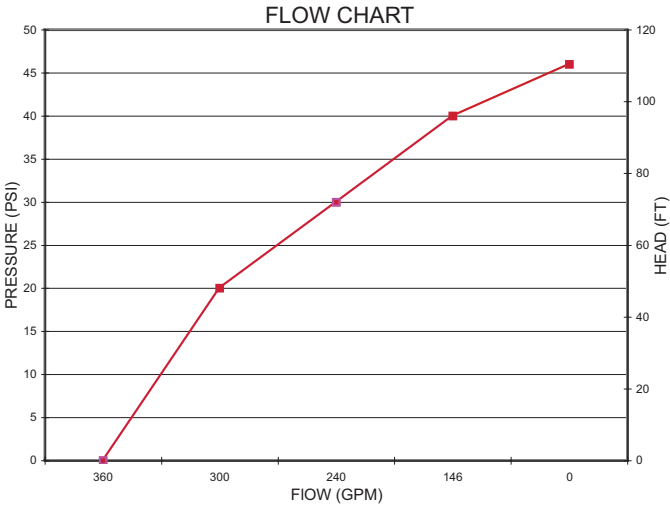


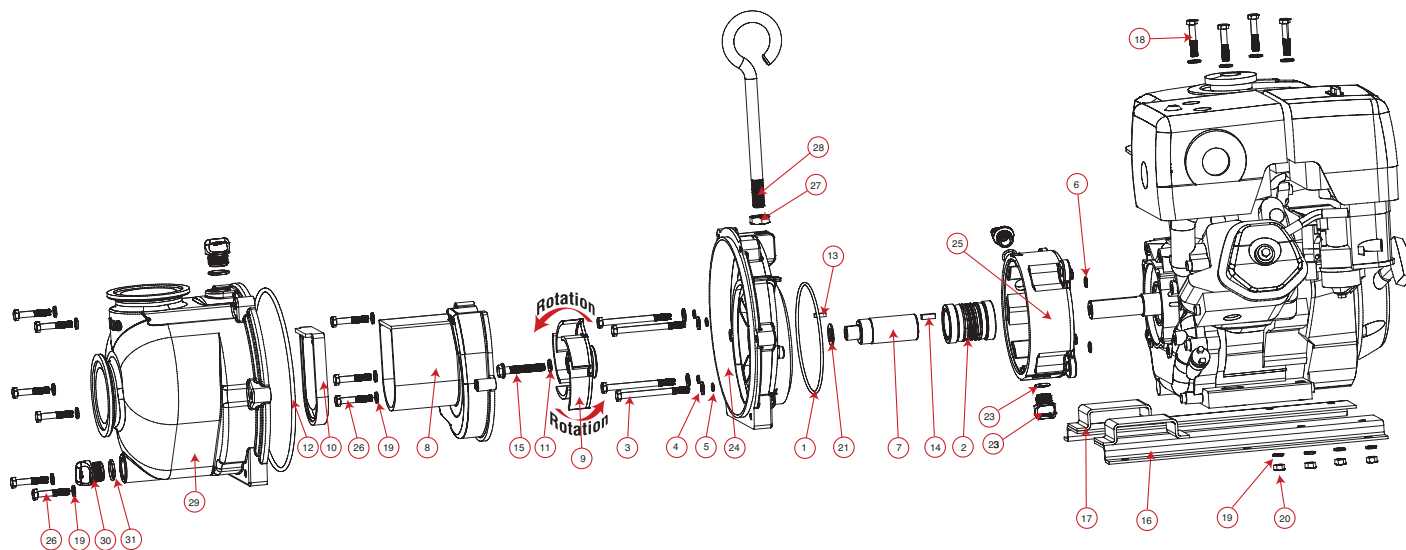
DO NOT USE WITH FLAMMABLE LIQUIDS.



| 3" MANIFOLD WET SEAL CI PUMPS W/GAS ENGINES |                                                                                        |    |     |            |
|---------------------------------------------|----------------------------------------------------------------------------------------|----|-----|------------|
| PART NO                                     | DESCRIPTION                                                                            | HP | QTY | PRICE      |
| M332PIH13W                                  | 3" Manifold Cast Iron Wet Seal Pump w/13 HP Honda® Engine w/Electric Start & Pull Rope | 13 | 1   | \$4,477.41 |

| 3" MANIFOLD WET SEAL CI PUMPS W/ELECTRIC MOTORS |                                                                        |    |     |            |
|-------------------------------------------------|------------------------------------------------------------------------|----|-----|------------|
| PART NO                                         | DESCRIPTION                                                            | HP | QTY | PRICE      |
| M332PIE10W                                      | 3" Manifold Cast Iron Wet Seal Pump w/10HP Three Phase Electric Motor  | 10 | 1   | \$4,477.41 |
| M332PIE101W                                     | 3" Manifold Cast Iron Wet Seal Pump w/10HP Single Phase Electric Motor | 10 | 1   | \$5,988.53 |



**REPLACEMENT PARTS M332 WET SEAL CAST IRON PUMPS**

| ITEM | PART NO | DESCRIPTION              | QTY | PRICE    |
|------|---------|--------------------------|-----|----------|
| 1    | 13719   | O-Ring                   | 1   | \$2.64   |
| 2    | 15035   | Mechanical Seal Assembly | 1   | \$222.14 |
| 3    | 12034   | 5/16" - 24 x 3 3/4" HHCS | 4   | \$8.52   |
| 4    | 12901   | 5/16" Flat Washer        | 8   | \$0.44   |
| 5    | 12717   | O-Ring for Bracket Screw | 4   | \$0.66   |
| 6    | 12709   | O-Ring                   | 4   | \$0.70   |
| 7    | 13055   | Adapter Shaft            | 1   | \$109.70 |
| 8    | 19702   | Volute                   | 1   | \$101.66 |
| 9    | 19772   | 5 Vane Impeller          | 1   | \$67.60  |
| 10   | 12705   | Check Valve              | 1   | \$15.16  |
| 11   | 12774VA | Impeller Bolt Gasket     | 1   | \$1.39   |
| 12   | 12719A  | Body O-Ring              | 1   | \$13.26  |
| 13   | 12902A  | Impeller Key             | 1   | \$1.55   |
| 14   | 16901   | 1/4" sq x 3/4" Key Stock | 1   | \$3.08   |
| 15   | 13766   | 3/8" - 24 x 2 1/4" HFS   | 1   | \$3.64   |

**REPLACEMENT PARTS M332 WET SEAL CAST IRON PUMPS**

| ITEM | PART NO | DESCRIPTION              | QTY | PRICE    |
|------|---------|--------------------------|-----|----------|
| 16   | 18135B  | Z-Rail                   | 1   | \$21.87  |
| 17   | 18135A  | Z-Rail                   | 1   | \$21.87  |
| 18   | 17029   | 5/16" - 18 x 1 3/4" HHCS | 4   | \$1.17   |
| 19   | V10118  | 5/16" Lock Washer        | 13  | \$0.42   |
| 20   | V10119  | 5/16" Hex Nut            | 4   | \$0.56   |
| 21   | CV10175 | Gasket                   | 2   | \$1.30   |
| 22   | 12777   | Prime/Drain Plug         | 2   | \$2.24   |
| 23   | UV15163 | O-Ring                   | 2   | \$0.44   |
| 24   | 19703W  | Rear Bracket             | 1   | \$130.86 |
| 25   | 19201W  | Wet Seal Reservoir       | 1   | \$98.42  |
| 26   | 12715A  | 5/16" - 24 x 1 3/4" HHCS | 9   | \$3.69   |
| 27   | 18034   | 5/8"-11 Jam Nut          | 1   | \$3.16   |
| 28   | 18033   | Pump Handle              | 1   | \$18.16  |
| 29   | M19712X | Pump Body                | 1   | \$207.65 |
| 30   | 13777   | 3/4" Drain Plug          | 2   | \$2.95   |
| 31   | 13778   | O-Ring                   | 2   | \$1.86   |

# M222 Series Manifold Wet Seal Hydraulic Cast Iron Self-Priming Centrifugal Pump

## FEATURES

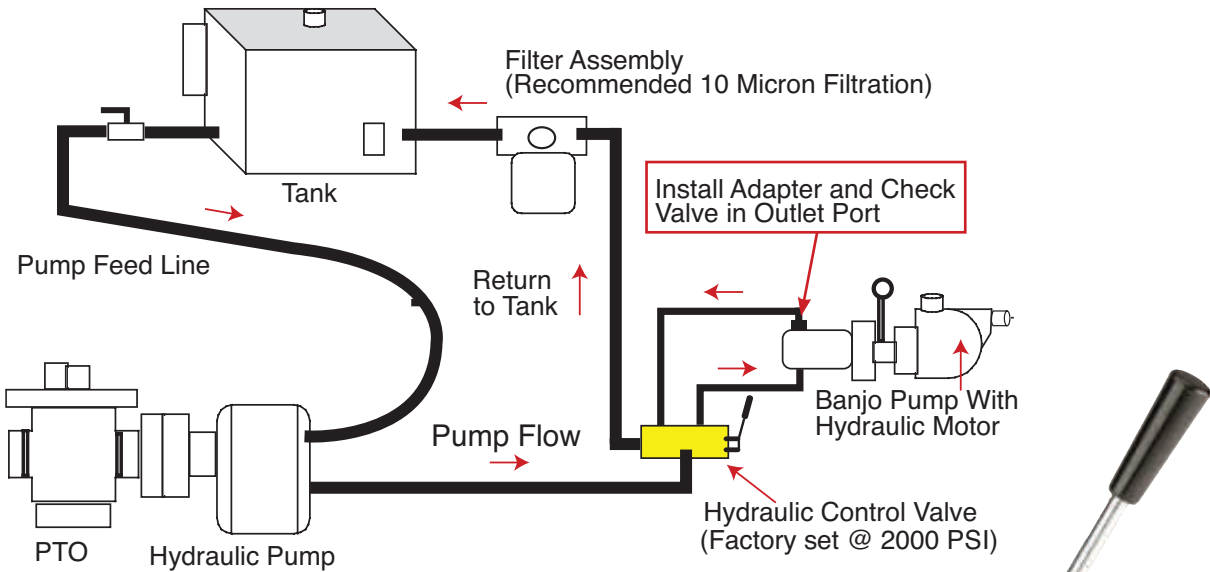
- Durable cast iron construction.
- Dynamically balanced impeller.
- Carbon ceramic seal with stainless steel cup and spring with FKM (viton type) rubber.
- Pump end separated from engine.
- Large weep holes between pump end and motor.
- “V” Shaped for quicker priming.

DO NOT USE WITH FLAMMABLE LIQUIDS.

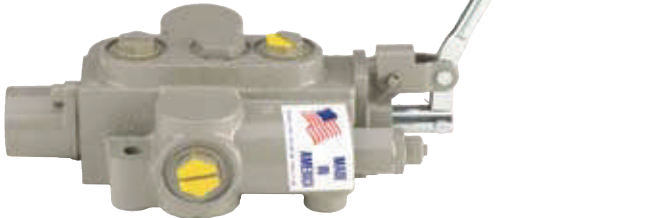
| 2" MANIFOLD WET SEAL CI HYDRAULIC PUMP |                                                             |    |     |            |
|----------------------------------------|-------------------------------------------------------------|----|-----|------------|
| PART NO                                | DESCRIPTION                                                 | HP | QTY | PRICE      |
| M222PIHYW                              | 2" Manifold Cast Iron Wet Seal Pump w/12 HP Hydraulic Motor | 12 | 1   | \$2,652.25 |



SPOOL VALVE ASSEMBLY DIAGRAM



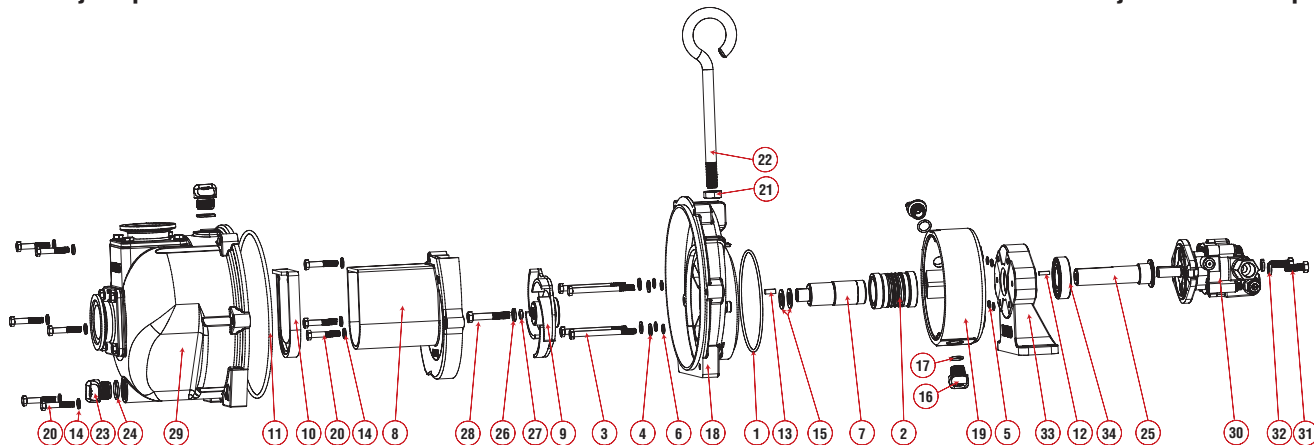
**Recommendation:**  
We recommend using the motor spool control valve or a suitable equivalent. The lack of such a valve in this circuit may cause failure to the hydraulic motor.



| HYDRAULIC MOTOR SPOOL VALVE |                             |     |     |          |
|-----------------------------|-----------------------------|-----|-----|----------|
| PART NO                     | DESCRIPTION                 | HP  | QTY | PRICE    |
| HSV1000                     | Hydraulic Motor Spool Valve | N/A | 1   | \$649.23 |





**HYDRAULIC MOTOR DATA**

|                        |                        |
|------------------------|------------------------|
| U.S. Gallons/Rev.      | 0.0025                 |
| Cubic Inches/Rev.      | 0.580                  |
| Liters/Rev.            | 0.0097                 |
| Max Hydraulic Pressure | 2000 PSI               |
| Min Hydraulic Pressure | 200 PSI                |
| Inlet Port             | SAE 10 (7/8-14 UNF-2B) |
| Outlet Port            | SAE 10 (7/8-14 UNF-2B) |
| Minimum GPM Required   | 6 GPM 2400 RPM         |
| Maximum GPM Required   | 10 GPM 4000 RPM        |
| Ideal GPM Required     | 9 GPM 3600 RPM         |

**CONNECTION INFORMATION**

|        |          |
|--------|----------|
| Inlet  | "A" Port |
| Outlet | "B" Port |

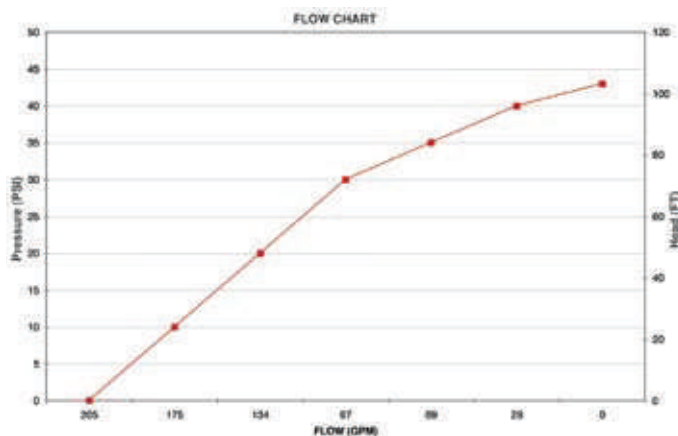
Supplied check valve is to ensure proper rotation of the Banjo pump. Place check valve in outlet port (marked "B") for proper right hand rotation.

**SPOOL VALVE INFORMATION**

|                          |                            |
|--------------------------|----------------------------|
| Required Outlet Flow     | Min 8 GPM / Max 13 GPM     |
| Required System Pressure | Min 600 PSI / Max 3000 PSI |

**REPLACEMENT PARTS M222 WET SEAL HYRAULIC PUMP**

| ITEM | PART NO | DESCRIPTION                               | QTY | PRICE      |
|------|---------|-------------------------------------------|-----|------------|
| 1    | 13719   | O-Ring                                    | 1   | \$2.64     |
| 2    | 15035   | FKM (viton type) Mechanical Seal Assembly | 1   | \$222.14   |
| 3    | 12034   | 5/16" -24 x 3 3/4" HHCS                   | 4   | \$8.52     |
| 4    | 12901   | SS Rear Bracket Washer                    | 4   | \$0.44     |
| 5    | 12717   | O-Ring for Screw Head                     | 4   | \$0.66     |
| 6    | 12709   | O-Ring                                    | 4   | \$0.70     |
| 7    | 13055   | Adapter Shaft                             | 1   | \$109.70   |
| 8    | 15702   | Volute                                    | 1   | \$99.66    |
| 9    | 15772   | 5 Vane Impeller                           | 1   | \$64.89    |
| 10   | 12705   | Check Valve                               | 1   | \$15.16    |
| 11   | 12719A  | Body O-Ring                               | 1   | \$13.26    |
| 12   | 12902A  | Impeller Key                              | 1   | \$1.55     |
| 13   | 16901   | 1/4" SQ. 3/4" Key Stock                   | 1   | \$3.08     |
| 14   | V10118  | 5/16" SS Lock Washer                      | 9   | \$0.42     |
| 15   | CV10175 | Gasket                                    | 2   | \$1.30     |
| 16   | 12777   | Prime/Drain Plug                          | 2   | \$2.24     |
| 17   | UV15163 | Prime/Drain Plug O-Ring                   | 2   | \$0.44     |
| 18   | 15703W  | Rear Bracket                              | 1   | \$165.83   |
| 19   | 15201W  | Wet Seal Reservoir                        | 1   | \$109.70   |
| 20   | 12715A  | SS Bracket Screws                         | 9   | \$3.69     |
| 21   | 18034   | 5/8" SS Jam Nut                           | 1   | \$3.16     |
| 22   | 18033   | Handle                                    | 1   | \$18.16    |
| 23   | 13777   | Prime/Drain Plug                          | 2   | \$2.95     |
| 24   | 13778   | Prime/Drain Plug O-Ring                   | 2   | \$1.86     |
| 25   | 15055H  | Hydraulic Motor Adapter Shaft             | 1   | \$104.30   |
| 26   | 19766   | 3/8" Flat Washer                          | 1   | \$0.68     |
| 27   | A203V   | O-Ring                                    | 1   | \$1.55     |
| 28   | BF207   | 3/8" - 16 x 2 1/4" HHCS                   | 1   | \$2.12     |
| 29   | M15712  | Pump Body                                 | 1   | \$200.85   |
| 30   | HY1013  | Gresen® Hydraulic Motor                   | 1   | \$1,264.49 |
| 31   | 18010SS | Bolt                                      | 2   | \$1.86     |
| 32   | V20018  | Lock Washer                               | 2   | \$0.42     |
| 33   | 12049B  | Hydraulic Pedestal Housing                | 1   | \$150.27   |
| 34   | 17056   | SKF 6206-2RS1 Bearing                     | 1   | \$41.73    |



# M332 Series Manifold Wet Seal Hydraulic Cast Iron Self-Priming Centrifugal Pump

## FEATURES

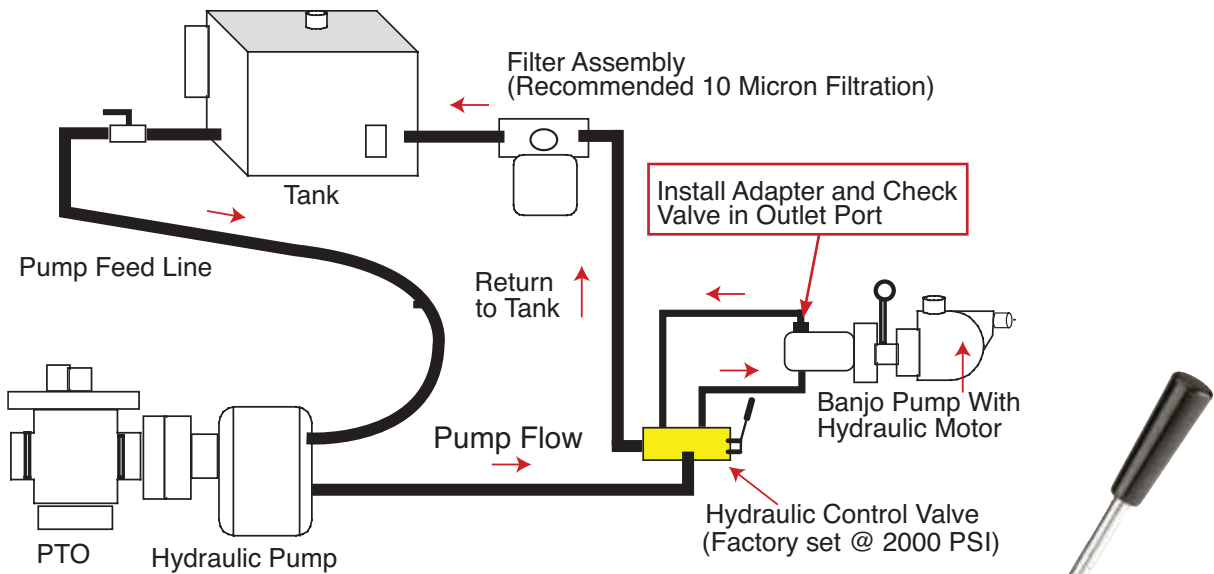
- Durable cast iron construction.
- Dynamically balanced impeller.
- Carbon ceramic seal with stainless steel cup and spring with FKM (viton type) rubber.
- Pump end separated from engine.
- Large weep holes between pump end and motor.
- "V" Shaped for quicker priming.

DO NOT USE WITH FLAMMABLE LIQUIDS.

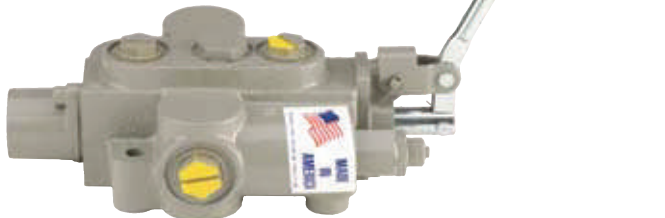
| 3" MANIFOLD WET SEAL CI HYDRAULIC PUMP |                                                             |    |     |            |
|----------------------------------------|-------------------------------------------------------------|----|-----|------------|
| PART NO                                | DESCRIPTION                                                 | HP | QTY | PRICE      |
| M332PIHYW                              | 3" Manifold Cast Iron Wet Seal Pump w/21 HP Hydraulic Motor | 21 | 1   | \$3,682.25 |



## SPOOL VALVE ASSEMBLY DIAGRAM

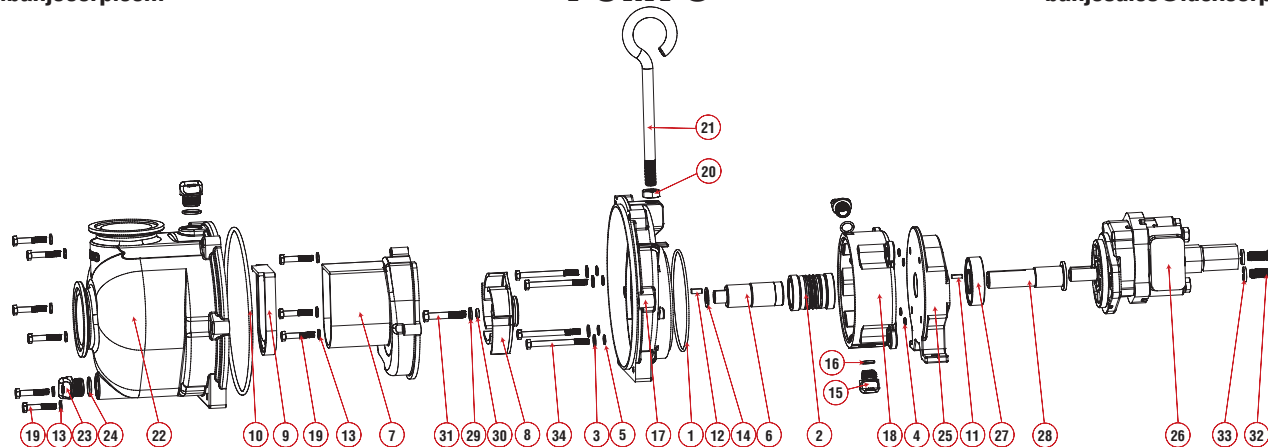


**Recommendation:**  
We recommend using the motor spool control valve or a suitable equivalent. The lack of such a valve in this circuit may cause failure to the hydraulic motor.



| HYDRAULIC MOTOR SPOOL VALVE |                             |     |     |          |
|-----------------------------|-----------------------------|-----|-----|----------|
| PART NO                     | DESCRIPTION                 | HP  | QTY | PRICE    |
| HSV1000                     | Hydraulic Motor Spool Valve | N/A | 1   | \$649.23 |



**HYDRAULIC MOTOR DATA**

|                        |                 |
|------------------------|-----------------|
| U.S. Gallons/Rev.      | 0.0038          |
| Cubic Inches/Rev.      | 0.878           |
| Liters/Rev.            | 0.0144          |
| Max Hydraulic Pressure | 3000 PSI        |
| Min Hydraulic Pressure | 600 PSI         |
| Inlet Port             | 1-1/16-12UN-2B  |
| Outlet Port            | 1-5/16-12UN-2B  |
| Minimum GPM Required   | 9 GPM 2370 RPM  |
| Maximum GPM Required   | 13 GPM 3450 RPM |
| Ideal GPM Required     | 9 GPM 3600 RPM  |

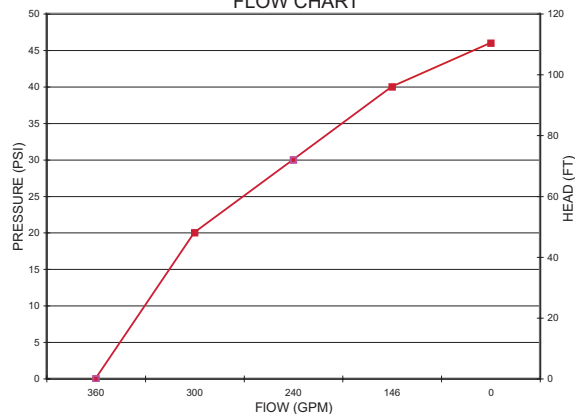
**CONNECTION INFORMATION**

|        |          |
|--------|----------|
| Inlet  | "A" Port |
| Outlet | "B" Port |

Supplied check valve is to ensure proper rotation of the Banjo pump. Place check valve in outlet port (marked "B") for proper right hand rotation. It is recommended that a minimum 3/4" inlet line & a minimum 1" outlet line be used. The outlet port must be connected directly back to the hydraulic fluid reservoir & not to any valving, regulators or flow diverters. The outlet port/return line back pressure must not exceed 250 PSI.

**SPOOL VALVE INFORMATION**

|                          |                            |
|--------------------------|----------------------------|
| Required Outlet Flow     | Min 9 GPM / Max 13 GPM     |
| Required System Pressure | Min 600 PSI / Max 3000 PSI |

**FLOW CHART****REPLACEMENT PARTS M332 WET SEAL HYDRAULIC PUMP**

| ITEM | PART NO | DESCRIPTION                               | QTY | PRICE      |
|------|---------|-------------------------------------------|-----|------------|
| 1    | 13719   | O-Ring                                    | 1   | \$2.64     |
| 2    | 15035   | FKM (viton type) Mechanical Seal Assembly | 1   | \$222.14   |
| 3    | 12901   | SS Rear Bracket Washer                    | 4   | \$0.44     |
| 4    | 12717   | O-Ring for Screw Head                     | 4   | \$0.66     |
| 5    | 12709   | O-Ring                                    | 4   | \$0.70     |
| 6    | 13055   | Adapter Shaft                             | 1   | \$109.70   |
| 7    | 19702   | Volute                                    | 1   | \$101.66   |
| 8    | 19772   | 5 Vane Impeller                           | 1   | \$67.60    |
| 9    | 12705   | Check Valve                               | 1   | \$15.16    |
| 10   | 12719A  | Body O-Ring                               | 1   | \$13.26    |
| 11   | 12902A  | Impeller Key                              | 1   | \$1.55     |
| 12   | 16901   | 1/4" SQ. 3/4" Key Stock                   | 1   | \$3.08     |
| 13   | V10118  | 5/16" SS Lock Washer                      | 9   | \$0.42     |
| 14   | CV10175 | Gasket                                    | 2   | \$1.30     |
| 15   | 12777   | Prime/Drain Plug                          | 2   | \$2.24     |
| 16   | UV15163 | Prime/Drain Plug O-Ring                   | 2   | \$0.44     |
| 17   | 19703W  | Rear Bracket                              | 1   | \$130.86   |
| 18   | 19201W  | Wet Seal Reservoir                        | 1   | \$98.42    |
| 19   | 12715A  | SS Bracket Screws                         | 9   | \$3.69     |
| 20   | 18034   | 5/8" SS Jam Nut                           | 1   | \$3.16     |
| 21   | 18033   | Handle                                    | 1   | \$18.16    |
| 22   | M19712X | Pump Body                                 | 1   | \$207.65   |
| 23   | 13777   | Prime/Drain Plug                          | 2   | \$2.95     |
| 24   | 13778   | Prime/Drain Plug O-Ring                   | 2   | \$1.86     |
| 25   | 19001H  | Reservoir Backing Plate                   | 1   | \$119.76   |
| 26   | HY1012  | Tyrone® UM16 Hydraulic Motor              | 1   | \$1,451.43 |
| 27   | 18502   | SKF 63306-2RS1/C3 Bearing                 | 1   | \$134.40   |
| 28   | 18055H  | Hydraulic Motor Adapter Shaft             | 1   | \$123.20   |
| 29   | 19766   | 3/8" Flat Washer                          | 1   | \$1.86     |
| 30   | A203V   | O-Ring                                    | 1   | \$1.55     |
| 31   | BF207   | 3/8" - 16 x 2 1/4" HHCS                   | 1   | \$2.12     |
| 32   | 17449   | Bolt                                      | 2   | \$3.08     |
| 33   | 18058   | 1/2" Split Lock Washer                    | 2   | \$0.71     |
| 34   | V10117  | 5/16" x 3 1/2" SS Body Bolt               | 4   | \$1.38     |

# 2" & 3" 316 Stainless Steel Self-Priming Centrifugal Pump

## FEATURES

- Carbon ceramic seal consists of 316 stainless steel cup and spring with FKM (viton type) Elastomer.
- All 316 stainless steel wettable internal components:  
–Impeller –Sleeve –Wear plate –Fasteners
- 316 stainless steel housing.
- Dynamically balanced impeller.

**CAUTION-WARNING:** Please do not run pumps dry, restrict or reduce port sizes or dead head pumps. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**

### 2" STAINLESS STEEL PUMPS W/GAS ENGINES

| PART NO    | DESCRIPTION                                                               | HP  | QTY | PRICE      |
|------------|---------------------------------------------------------------------------|-----|-----|------------|
| 200PH5-SS  | 2" SS Pump w/5.5 HP Honda® Engine w/ Pull Rope Only                       | 5.5 | 1   | \$4,611.17 |
| 200P6PROSS | 2" SS Pump w/6.5 HP Briggs & Stratton® Engine Pro Series w/Pull Rope Only | 6.5 | 1   | \$4,313.40 |

### 3" STAINLESS STEEL PUMPS W/GAS ENGINES

| PART NO    | DESCRIPTION                                                   | HP | QTY | PRICE       |
|------------|---------------------------------------------------------------|----|-----|-------------|
| 300PH11-SS | 3" SS Pump w/11 HP Honda® Engine w/Electric Start & Pull Rope | 11 | 1   | \$11,013.80 |
| 300PH13SS  | 3" SS Pump w/13 HP Honda® Engine w/Electric Start & Pull Rope | 13 | 1   | \$11,619.34 |

\*Truck Shipments Only with the exception of 200PH5-SS

**NOTE:** Engine warranty service available at authorized Honda and Briggs & Stratton dealers.



## Stainless Steel Pump Only/Pedestal Pump/C-Flanged Pump

## FEATURES

- Bearing pedestal pump is easily adaptable to electric motor.
- Pump only packs complete and ready for attachment to gasoline engine.

### 2" & 3" SS BEARING PEDESTAL PUMPS

| PART NO  | DESCRIPTION                                    | HP  | QTY | PRICE      |
|----------|------------------------------------------------|-----|-----|------------|
| 200PB-SS | 2" SS Bearing Pedestal w/ 3/4" Straight Shaft* | N/A | 1   | \$3,156.84 |
| 300PB-SS | 3" SS Bearing Pedestal w/ 1" Straight Shaft*   | N/A | 1   | \$5,925.97 |

### 2" & 3" SS PUMP ONLYS

| PART NO  | DESCRIPTION                             | HP  | QTY | PRICE      |
|----------|-----------------------------------------|-----|-----|------------|
| 200PO-SS | 2" SS Pump Only w/ 3/4" Straight Shaft* | N/A | 1   | \$3,022.04 |
| 300PO-SS | 3" SS Pump Only w/ 1" Straight Shaft*   | N/A | 1   | \$5,805.97 |

\*Truck Shipments Only.

### 2" & 3" SS C-FLANGE PUMPS

| PART NO      | DESCRIPTION                                | HP  | QTY | PRICE      |
|--------------|--------------------------------------------|-----|-----|------------|
| 200POSSCF5/8 | 2" SS C-Flange Pump w/ 5/8" Shaft Sleeve   | N/A | 1   | \$3,112.52 |
| 200POSSCF7/8 | 2" SS C-Flange Pump w/ 7/8" Shaft Sleeve   | N/A | 1   | \$3,112.52 |
| 300PO-SSCF   | 3" SS C-Flange Pump w/ 1 1/8" Shaft Sleeve | N/A | 1   | \$5,972.13 |

Note: \* 3/4" straight shaft for long coupling to electric motors

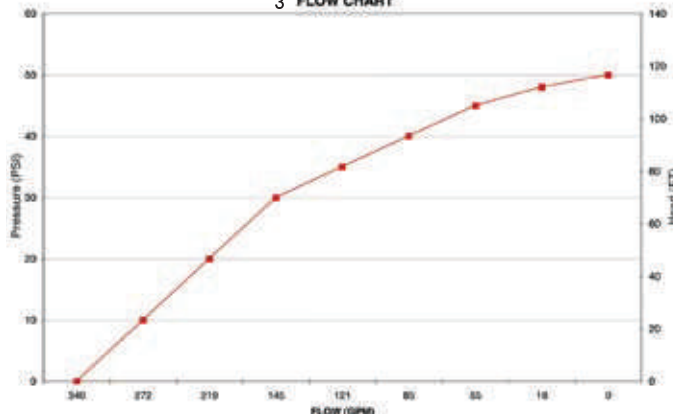
Note: \*Recommendation for 5/8" Shaft: 56C Frame Size, 3 HP, 3450 RPM, & 5" Max Impeller for close coupling to electric motors.

\*Recommendation for 7/8" Shaft: 145TC Frame Size, 3 HP, 3450 RPM, & 5" Max Impeller for close coupling to electric motors.

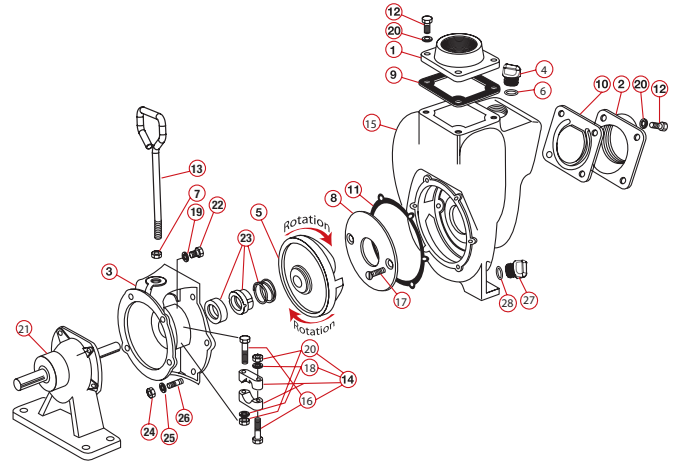
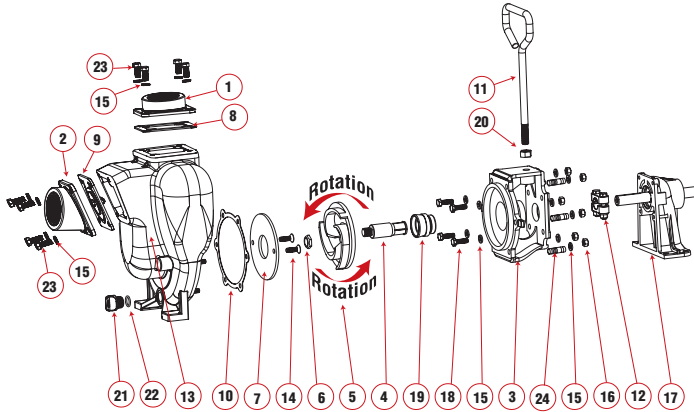
\*See page 192 for available base plate.



3" FLOW CHART



**\*NOTE:** See page 178 for old style replacement parts.



### REPLACEMENT PARTS 2" SS PUMPS

| ITEM | PART NO     | DESCRIPTION                                  | QTY | PRICE      |
|------|-------------|----------------------------------------------|-----|------------|
| 1    | 17000SS     | SS Outlet Flange                             | 1   | \$87.76    |
| 2    | 17002SS     | SS Inlet Flange                              | 1   | \$127.03   |
| 3    | 17004SS     | SS Adapter for Gas Engine                    | 1   | \$315.66   |
| 3    | 17046SS     | CF Adapter for Electric Motor                | 1   | \$407.29   |
| 4    | 17005SS     | 5/8" SS Sleeve Drive                         | 1   | \$244.39   |
| 4    | 17006SS*    | 3/4" SS Sleeve Drive                         | 1   | \$244.39   |
| 4    | 17007SS     | 7/8" SS Sleeve Drive                         | 1   | \$244.39   |
| 5    | 17008SS*    | SS Impeller                                  | 1   | \$256.04   |
| 5    | 17008-4.1SS | 4.1" SS Impeller                             | 1   | \$256.04   |
| 5    | 17008-4.6SS | 4.6" SS Impeller                             | 1   | \$256.04   |
| 6    | 17009B      | 5/8" Impeller Nut                            | 1   | \$7.88     |
| 7    | 17011SS*    | SS Wear Plate                                | 1   | \$164.87   |
| 8    | 17014       | FKM (viton type) Outlet Gasket               | 1   | \$81.47    |
| 9    | 17017       | FKM (viton type) Check Valve Assembly Gasket | 1   | \$153.81   |
| 10   | 17018       | Adapter Gasket                               | 1   | \$6.56     |
| 11   | 15022       | Handle                                       | 1   | \$11.59    |
| 12   | 17023       | 5/8" Clamp, 3/4" SS Shaft (Old Style)        | 1   | \$42.49    |
| 12   | 17123       | 5/8" Clamp, 3/4" SS Shaft (Keyed Clamp)      | 1   | \$42.49    |
| 12   | 17024       | 7/8" Clamp, 3/4" SS Shaft                    | 1   | \$42.49    |
| 13   | 17026SS     | SS Pump Housing                              | 1   | \$1,018.25 |
| 14   | 17130SS     | 3/8" -16 x 1" Bolt                           | 2   | \$14.53    |
| 15   | V10118      | 5/16" Lock Washer                            | 18  | \$0.42     |
| 16   | V10119      | 5/16" -18 SS Hex Nut                         | 6   | \$0.56     |
| 17   | 12882A      | Bearing Pedestal Assembly w/ 3/4" Shaft      | 1   | \$213.64   |
| 18   | 17040       | Bolt                                         | 4   | \$3.71     |
| 19   | 17035SS     | FKM (viton type) SS Seal Assembly            | 1   | \$174.54   |
| 20   | 17010       | 1/2" - 24 x 1" HHCS                          | 1   | \$1.17     |
| 21   | 12777       | Drain Plug                                   | 1   | \$2.24     |
| 22   | UV15163     | O-Ring for Drain Plug                        | 1   | \$0.44     |
| 23   | 17019       | 5/16" - 18 x 3/4" Cap Screw                  | 8   | \$1.17     |
| 24   | 17042       | Stud                                         | 6   | \$1.94     |
| N/S  | 17032SS     | 1/4" SS Drain Plug                           | 1   | \$14.53    |
| N/S  | 17100SS     | Pump Repair Kit(Consists of 4,5,7,10,14,19)  | 1   | \$737.00   |

### REPLACEMENT PARTS 3" SS PUMPS

| ITEM | PART NO       | DESCRIPTION                                         | QTY | PRICE      |
|------|---------------|-----------------------------------------------------|-----|------------|
| 1    | 18008SS       | NPT Outlet Flange                                   | 1   | \$178.45   |
| 2    | 18012SS       | NPT Inlet Flange                                    | 1   | \$248.27   |
| 3    | 18026SS       | Adapter for Gas Engine                              | 1   | \$824.29   |
| 3    | 18048SS       | SS C-Flange Adapter                                 | 1   | \$1,600.12 |
| 4    | 13777         | Plug                                                | 1   | \$2.95     |
| 5    | 18023SS       | 1" SS Impeller & Drive Shaft for Gas Engine         | 1   | \$766.12   |
| 5    | 18023-1.125SS | 1 1/8" SS Impeller & Drive Shaft for Electric Motor | 1   | \$766.12   |
| 6    | 13778         | O-Ring                                              | 1   | \$1.86     |
| 7    | 18034         | 5/8" SS Jam Nut                                     | 1   | \$3.16     |
| 8    | 18004SS       | SS Wear Plate                                       | 1   | \$236.60   |
| 9    | 18044         | FKM (viton type) Outlet Gasket                      | 1   | \$123.58   |
| 10   | 18042         | FKM (viton type)Gasket Check Valve Assembly         | 1   | \$193.16   |
| 11   | 18021         | Adapter Gasket                                      | 1   | \$7.34     |
| 12   | 18010SS       | 3/8" - 16 x 1 1/8" SS Cap Screw HXHD                | 8   | \$1.86     |
| 13   | 18033         | Handle                                              | 1   | \$18.16    |
| 14   | 18029         | Clamp Assembly (Old Style)                          | 1   | \$49.45    |
| 14   | 18129         | Clamp Assembly (New Style)                          | 1   | \$49.45    |
| 15   | 18001SS       | SS Pump Housing                                     | 1   | \$1,735.86 |
| 16   | 18030         | 3/8" -24 x 2 1/4" SS Bolt                           | 2   | \$4.39     |
| 17   | 18106SS       | Wear Plate Flat Head Screw                          | 2   | \$14.83    |
| 18   | V20018        | 3/8" Lock Washer                                    | 8   | \$0.42     |
| 19   | 18032         | 3/8" x 24 SS Hex Nut                                | 2   | \$0.76     |
| 20   | 18504         | 1" Shaft                                            | 1   | \$61.18    |
| 21   | 18500         | Bearing Pedestal                                    | 1   | \$440.36   |
| 22   | 18027         | 3/8" -16 x 1 1/2" HHCS                              | 1   | \$1.86     |
| 23   | 18025SS       | FKM (viton type) Seal Assembly                      | 1   | \$310.33   |
| 24   | V20019        | 3/8" 16 SS Hex Nut                                  | 6   | \$1.03     |
| 25   | V20018        | 3/8" SS Lock Washer                                 | 6   | \$0.42     |
| 26   | 18218         | 3/8" -16 x 3/8" -24 x 1 1/2" SS Stud                | 6   | \$17.49    |
| 27   | 12777         | Plug                                                | 1   | \$2.24     |
| 28   | UV15163       | O-Ring                                              | 1   | \$0.44     |
| N/S  | 18100SS       | Repair Kit(Consist of items 5, 8, 11, 17 & 25)      | 1   | \$1,338.24 |



# 2" Close Coupled Stainless Steel Electric Driven Pumps

## FEATURES

- Stainless steel construction for rugged dependable service.
- Stainless steel shaft sleeve to protect engine shaft.
- Carbon ceramic seal with stainless steel cup and spring with FKM (viton type) rubber.
- Replaceable inlet and outlet flanges.
- Dynamically balanced impeller.

**CAUTION-WARNING:** Please do not run pumps dry, restrict or reduce port sizes or dead head pumps. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**



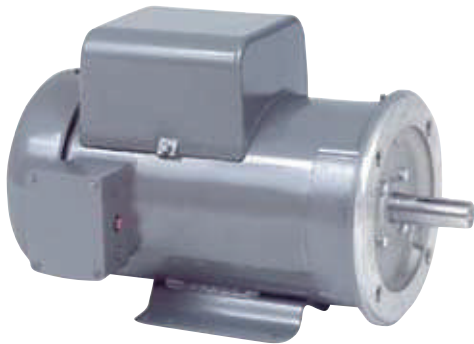
| 2" SS PUMPS W/ELECTRIC MOTORS |                                                 |     |     |            |
|-------------------------------|-------------------------------------------------|-----|-----|------------|
| PART NO                       | DESCRIPTION                                     | HP  | QTY | PRICE      |
| 234PE3SS                      | 2" SS Pump w/3.0 HP Three Phase Electric Motor  | 3.0 | 1   | \$6,437.31 |
| 234PE5SS                      | 2" SS Pump w/5.0 HP Three Phase Electric Motor  | 5.0 | 1   | \$7,292.08 |
| 234PE51SS                     | 2" SS Pump w/5.0 HP Single Phase Electric Motor | 5.0 | 1   | \$7,988.03 |

**NOTE:** Truck shipments only. Motor warranty service available at authorized dealers.

## COMPLETE PUMP WITH EFFICIENT INDUSTRIAL ELECTRIC MOTORS!

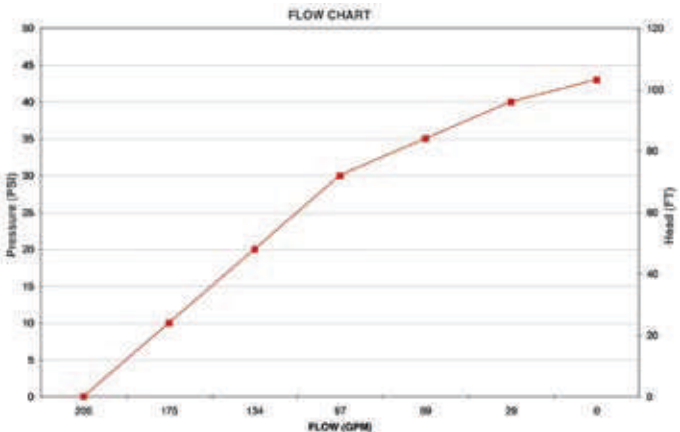
### MOTOR FEATURES

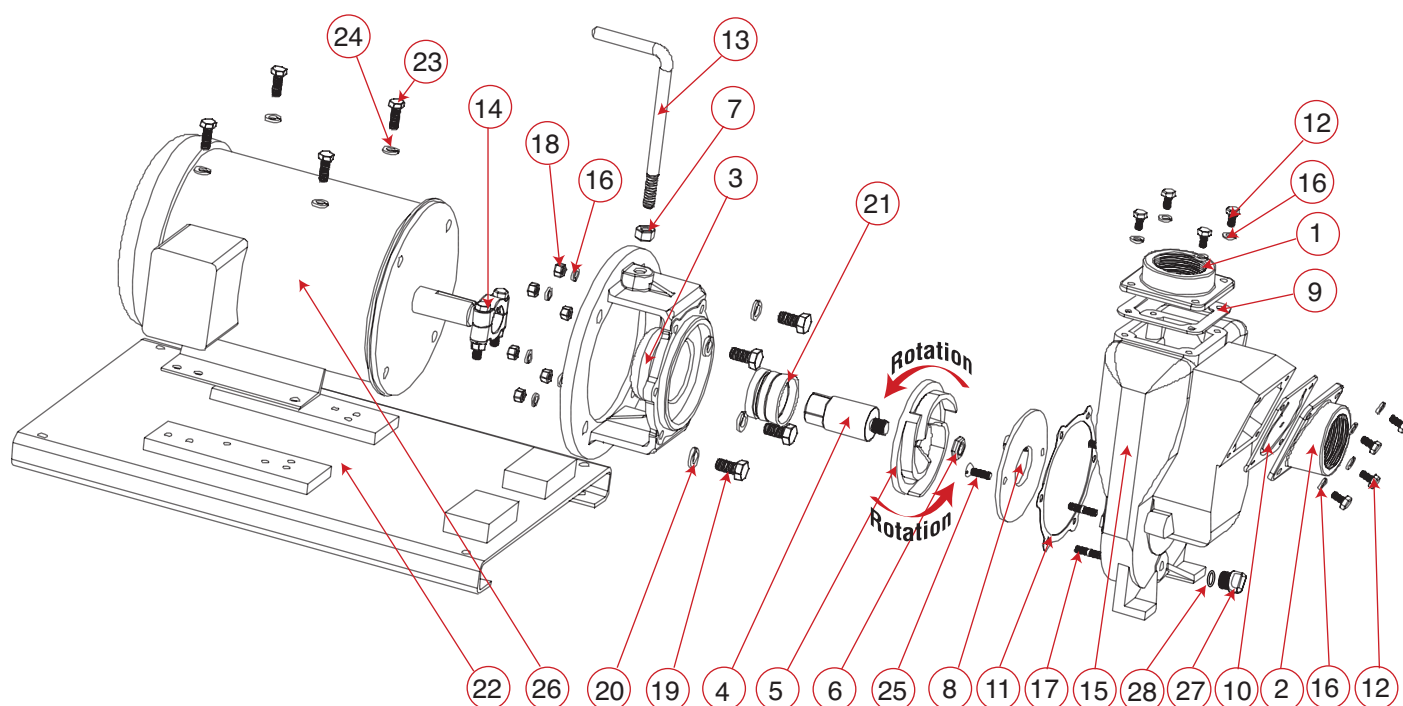
- Pressure cast aluminum end plates with ribbed design for rigidity.
- Ball bearings, locked drive end bearing.
- Heavy gauge steel frame.
- Motors wound with inverter spike resistance magnet wire.
- Mounted complete on heavy duty cast iron base plate.
- 230 V Motors.



### POLYETHYLENE SUCTION BASKET STRAINER

| PART NO | DESCRIPTION                   | QTY | PRICE   |
|---------|-------------------------------|-----|---------|
| 150SBS  | 1½" Female Thread Poly Basket | 1   | \$15.16 |
| 200SBS  | 2" Female Thread Poly Basket  | 1   | \$15.16 |
| 300SBS  | 3" Female Thread Poly Basket  | 1   | \$34.19 |



**REPLACEMENT PARTS 234PE3SS**

| ITEM | PART NO | DESCRIPTION                           | QTY | PRICE      |
|------|---------|---------------------------------------|-----|------------|
| 1    | 17000SS | Outlet Flange                         | 1   | \$87.76    |
| 2    | 17002SS | Inlet Flange                          | 1   | \$127.03   |
| 3    | 17046SS | C-Flange Adapter                      | 1   | \$407.29   |
| 4    | 17007SS | Impeller Shaft                        | 1   | \$244.39   |
| 5    | 17008SS | Impeller                              | 1   | \$256.04   |
| 6    | 17009B  | 5/8" Impeller Nut                     | 1   | \$7.88     |
| 7    | 17010   | 1/2" Hex Nut                          | 1   | \$1.17     |
| 8    | 17011SS | Wear Plate                            | 1   | \$164.87   |
| 9    | 17014   | FKM (viton type) Outlet Gasket        | 1   | \$81.47    |
| 10   | 17017   | FKM (viton type) Gasket & Check Valve | 1   | \$153.81   |
| 11   | 17018   | Adapter Gasket                        | 1   | \$6.56     |
| 12   | 17019   | Bolt                                  | 8   | \$1.17     |
| 13   | 15022   | Handle                                | 1   | \$11.59    |
| 14   | 17024   | Clamp Assembly w/Key                  | 1   | \$42.49    |
| 15   | 17026SS | Pump Housing                          | 1   | \$1,018.25 |
| 16   | V10118  | 5/16" Lock Washer                     | 20  | \$0.42     |
| 17   | 17042   | Housing Stud                          | 6   | \$1.94     |
| 18   | V10119  | Hex Nut                               | 8   | \$0.56     |
| 19   | 17449   | Bolt                                  | 4   | \$3.08     |
| 20   | 18058   | Washer                                | 4   | \$0.71     |
| 21   | 17035SS | Seal Assembly                         | 1   | \$174.54   |
| 22   | 17701   | Base Plate Assembly                   | 1   | \$278.12   |
| 23   | 17704   | Bolt                                  | 4   | \$3.08     |
| 24   | V20018  | 3/8" Lock Washer                      | 4   | \$0.42     |
| 25   | 17130SS | Flat Head Screw                       | 2   | \$14.53    |
| 26   | BEM3    | Electric Motor                        | 1   | \$1,251.52 |
| 27   | 12777   | Plug                                  | 1   | \$2.24     |
| 28   | UV15163 | O-Ring                                | 1   | \$0.44     |

**REPLACEMENT PARTS 234PIE5SS & 234PIE51SS**

| ITEM | PART NO | DESCRIPTION                           | QTY | PRICE      |
|------|---------|---------------------------------------|-----|------------|
| 1    | 17000SS | Outlet Flange                         | 1   | \$87.76    |
| 2    | 17002SS | Inlet Flange                          | 1   | \$127.03   |
| 3    | 17446SS | C-Flange Adapter                      | 1   | \$756.38   |
| 4    | 17406   | Impeller Shaft                        | 1   | \$131.35   |
| 5    | 17408SS | Impeller                              | 1   | \$166.85   |
| 6    | 17009B  | 5/8" Impeller Nut                     | 1   | \$7.88     |
| 7    | 17010   | 1/2" Hex Nut                          | 1   | \$1.17     |
| 8    | 17011SS | Wear Plate                            | 1   | \$164.87   |
| 9    | 17014   | Outlet Gasket                         | 1   | \$81.47    |
| 10   | 17017   | FKM (viton type) Gasket & Check Valve | 1   | \$153.81   |
| 11   | 17018   | Adapter Gasket                        | 1   | \$6.56     |
| 12   | 17019   | Bolt                                  | 8   | \$1.17     |
| 13   | 15022   | Handle                                | 1   | \$11.59    |
| 14   | 18129   | Clamp Assembly w/Key                  | 1   | \$49.45    |
| 15   | 17026SS | Pump Housing                          | 1   | \$1,018.25 |
| 16   | V10118  | 5/16" Lock Washer                     | 20  | \$0.42     |
| 17   | 17042   | Housing Stud                          | 6   | \$1.94     |
| 18   | V10119  | Hex Nut                               | 8   | \$0.56     |
| 19   | 17449   | Bolt                                  | 4   | \$3.08     |
| 20   | 18058   | Washer                                | 4   | \$0.71     |
| 21   | 18025SS | Seal Assembly                         | 1   | \$310.33   |
| 22   | 17701   | Base Plate Assembly                   | 1   | \$278.12   |
| 23   | 17704   | Bolt                                  | 4   | \$3.08     |
| 24   | V20018  | 3/8" Lock Washer                      | 4   | \$0.42     |
| 25   | 17130SS | Flat Head Screw                       | 2   | \$14.53    |
| 26   | BEM5    | Electric Motor                        | 1   | \$1,514.18 |
| 26   | BEM51   | Electric Motor                        | 1   | \$2,163.12 |
| 27   | 12777   | Plug                                  | 1   | \$2.24     |
| 28   | UV15163 | O-Ring                                | 1   | \$0.44     |

# 2" Hydraulic Motor Driven Stainless Steel Pumps

## PUMP FEATURES

- Rugged construction for dependable service.
- Carbon ceramic seal with stainless steel cup and spring with FKM (viton type) rubber.
- Replaceable inlet and outlet flanges.
- Dynamically balanced impeller.

## HYDRAULIC MOTOR FEATURES

- Hydraulic fluid capacity  
Minimum 6 Gallons / Maximum 10 Gallons.
- 12 H.P. Motor.
- Open or closed system.
- Minimum 500 P.S.I. / Maximum 2000 P.S.I.

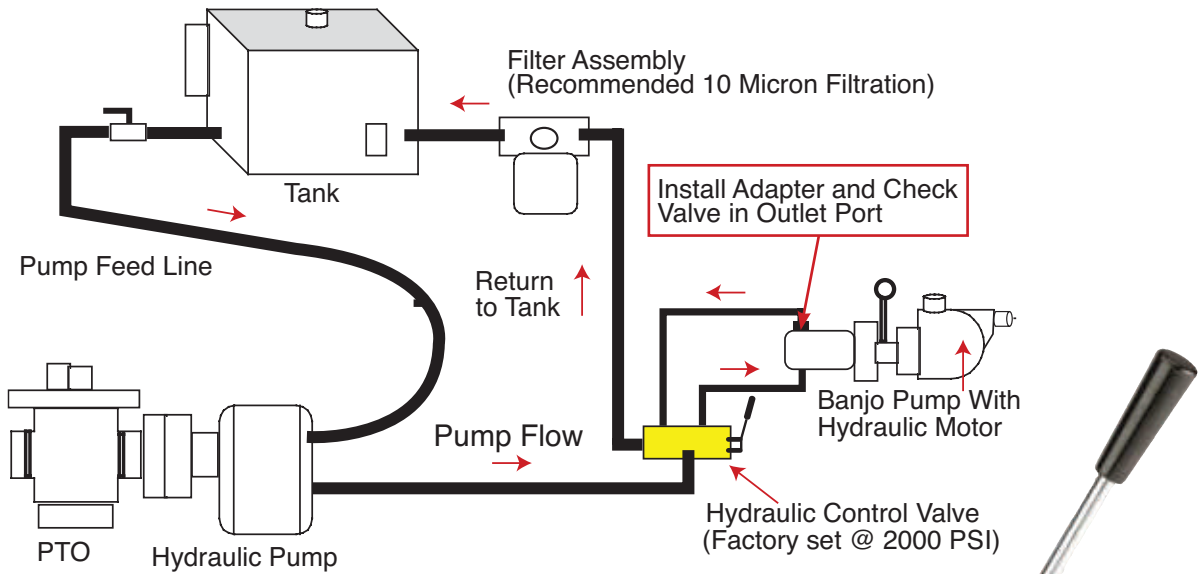
**CAUTION-WARNING:** Please do not run pumps dry, restrict or reduce port sizes or dead head pumps. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**



| 2" SS HYDRAULIC PUMPS |                                    |     |     |            |
|-----------------------|------------------------------------|-----|-----|------------|
| PART NO               | DESCRIPTION                        | HP  | QTY | PRICE      |
| 200PHASS              | 2" SS Pump without Hydraulic Motor | N/A | 1   | \$3,612.59 |
| 200PHYSS              | 2" SS Pump w/12 HP Hydraulic Motor | 12  | 1   | \$5,290.00 |

## SPOOL VALVE ASSEMBLY DIAGRAM

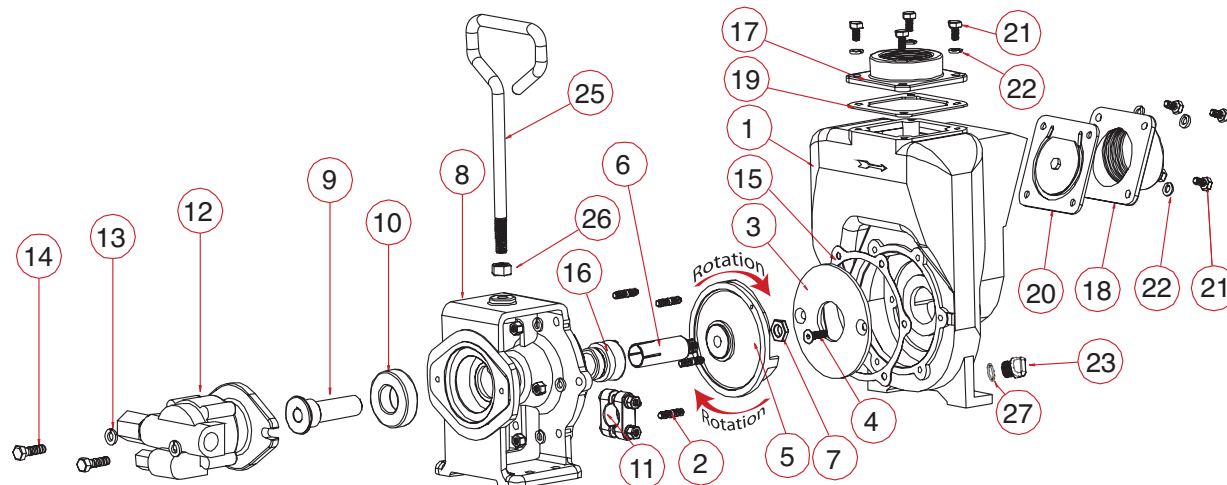


**Recommendation:**  
We recommend using the motor spool control valve or a suitable equivalent. The lack of such a valve in this circuit may cause failure to the hydraulic motor.



| HYDRAULIC MOTOR SPOOL VALVE |                             |     |     |          |
|-----------------------------|-----------------------------|-----|-----|----------|
| PART NO                     | DESCRIPTION                 | HP  | QTY | PRICE    |
| HSV1000                     | Hydraulic Motor Spool Valve | N/A | 1   | \$649.23 |



**HYDRAULIC MOTOR DATA**

|                        |                        |
|------------------------|------------------------|
| U.S. Gallons/Rev.      | 0.0025                 |
| Cubic Inches/Rev.      | 0.580                  |
| Liters/Rev.            | 0.0097                 |
| Max Hydraulic Pressure | 2000 PSI               |
| Min Hydraulic Pressure | 200 PSI                |
| Inlet Port             | SAE 10 (7/8-14 UNF-2B) |
| Outlet Port            | SAE 10 (7/8-14 UNF-2B) |
| Minimum GPM Required   | 6 GPM 2400 RPM         |
| Maximum GPM Required   | 10 GPM 4000 RPM        |
| Ideal GPM Required     | 9 GPM 3600 RPM         |

**CONNECTION INFORMATION**

|        |          |
|--------|----------|
| Inlet  | "A" Port |
| Outlet | "B" Port |

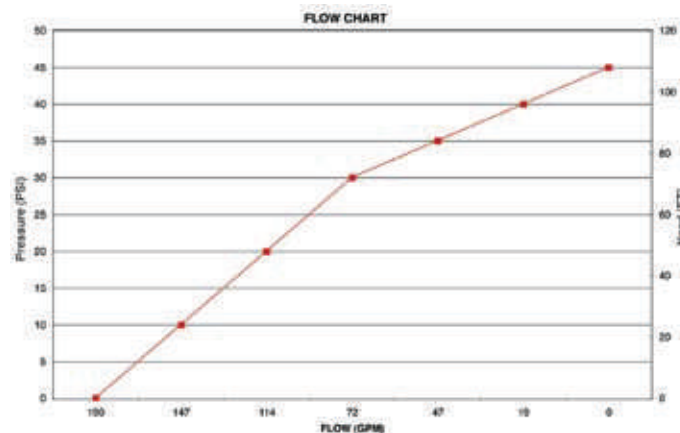
Supplied check valve is to ensure proper rotation of the Banjo pump. Place check valve in outlet port (marked "B") for proper right hand rotation.

**SPOOL VALVE INFORMATION**

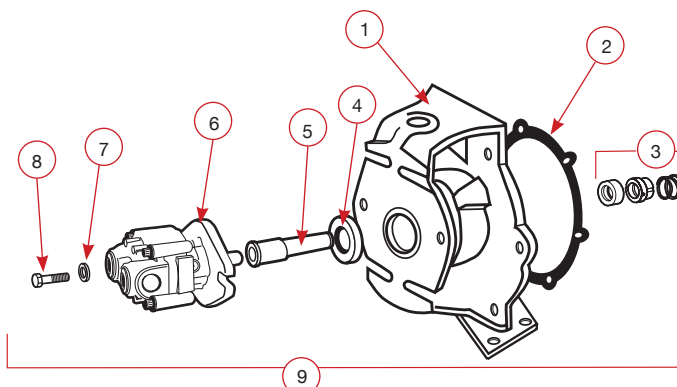
|                          |                            |
|--------------------------|----------------------------|
| Required Outlet Flow     | Min 6 GPM / Max 10 GPM     |
| Required System Pressure | Min 500 PSI / Max 2000 PSI |

**REPLACEMENT PARTS 2" SS PUMPS**

| ITEM | PART NO  | DESCRIPTION                                     | QTY | PRICE      |
|------|----------|-------------------------------------------------|-----|------------|
| 1    | 17026SS  | Pump Housing                                    | 1   | \$1,018.25 |
| 2    | 17042    | Pump Housing Stud                               | 6   | \$1.94     |
| 3    | 17011SS  | Wear Plate                                      | 1   | \$164.87   |
| 4    | 17130SS  | 5/16" -18 x 1.00" Cap Screw                     | 2   | \$14.53    |
| 5    | 17008SS  | 5" Impeller                                     | 1   | \$256.04   |
| 6    | 17007SS  | 7/8" Sleeve Drive for Electric Motor            | 1   | \$244.39   |
| 7    | 17009B   | 5/8" Impeller Nut                               | 1   | \$7.88     |
| 8    | 17049ASS | Hydraulic Adapter                               | 1   | \$712.20   |
| 9    | 17055A   | Hydraulic Adapter Shaft                         | 1   | \$119.78   |
| 10   | 17056    | SKF 6206-2RS1 Bearing                           | 1   | \$41.73    |
| 11   | 17024    | 7/8" Clamp, no key                              | 1   | \$42.49    |
| 12   | HY1013   | MGG@0025BC1D3 Hydraulic Motor Assembly          | 1   | \$1,264.49 |
| 13   | V20018   | 3/8" Lock Washer                                | 2   | \$0.42     |
| 14   | 18010SS  | 3/8" - 16 x 1.25" HHHCS                         | 2   | \$1.86     |
| 15   | 17018    | Gasket Adapter                                  | 1   | \$6.56     |
| 16   | 17035SS  | FKM (viton type) Seal Assembly                  | 1   | \$174.54   |
| 17   | 17000SS  | 2" Outlet Flange                                | 1   | \$87.76    |
| 18   | 17002SS  | 2" Inlet Flange                                 | 1   | \$127.03   |
| 19   | 17014    | FKM (viton type) Gasket                         | 1   | \$81.47    |
| 20   | 17017    | Gasket Check Valve Assembly                     | 1   | \$153.81   |
| 21   | 17019    | 5/16" -18 x 0.75" Cap Screw                     | 8   | \$1.17     |
| 22   | V10118   | 5/16" Split Lock Washer                         | 14  | \$0.42     |
| 23   | 12777    | Plug                                            | 1   | \$2.24     |
| 24   | V10119   | 5/16"-18 Hex Nut                                | 6   | \$0.56     |
| 25   | 15022    | Handle                                          | 1   | \$11.59    |
| 26   | 17010    | 1/2" Hex Nut -13UNF-RH                          | 1   | \$1.17     |
| 27   | UV15163  | O-Ring                                          | 1   | \$0.44     |
| N/S  | 17100SS  | Repair Kit (Consists of items 3, 4, 5, 15 & 16) | 1   | \$737.00   |

**REPLACEMENT PARTS 2" SS HYDRAULIC ADAPTER**

| ITEM | PART NO  | DESCRIPTION                         | QTY | PRICE      |
|------|----------|-------------------------------------|-----|------------|
| 1    | 17049ASS | SS Hydraulic Motor Adapter          | 1   | \$712.20   |
| 2    | 17018    | Gasket Adapter                      | 1   | \$6.56     |
| 3    | 17035SS  | Seal Assembly                       | 1   | \$174.54   |
| N/S  | 17007SS  | 7/8" SS Shaft Sleeve                | 1   | \$244.39   |
| N/S  | 12214A   | Shim                                | 1   | \$8.69     |
| 4    | 17056    | SKF 6206-2RS1 Bearing               | 1   | \$41.73    |
| 5    | 17055A   | Hydraulic Adapter Shaft             | 1   | \$119.78   |
| 6    | HY1013   | Gresen® Hydraulic Motor             | 1   | \$1,264.49 |
| 7    | V20018   | Lock Washer                         | 2   | \$0.42     |
| 8    | 18010SS  | Bolt                                | 2   | \$1.86     |
| 9    | 17600ASS | Hydraulic Motor Conversion Assembly | 1   | \$2,002.04 |



# 3" Hydraulic Motor Driven Stainless Steel Pumps

## PUMP FEATURES

- Rugged construction for dependable service.
- Carbon ceramic seal with stainless steel cup and spring with FKM (viton type) rubber.
- Replaceable inlet and outlet flanges.
- Dynamically balanced impeller.

## HYDRAULIC MOTOR

- Hydraulic fluid capacity  
Minimum 9 Gallons / Maximum 13 Gallons.
- 21 H.P. Motor.
- Open system.
- Minimum 600 P.S.I. / Maximum 3000 P.S.I.

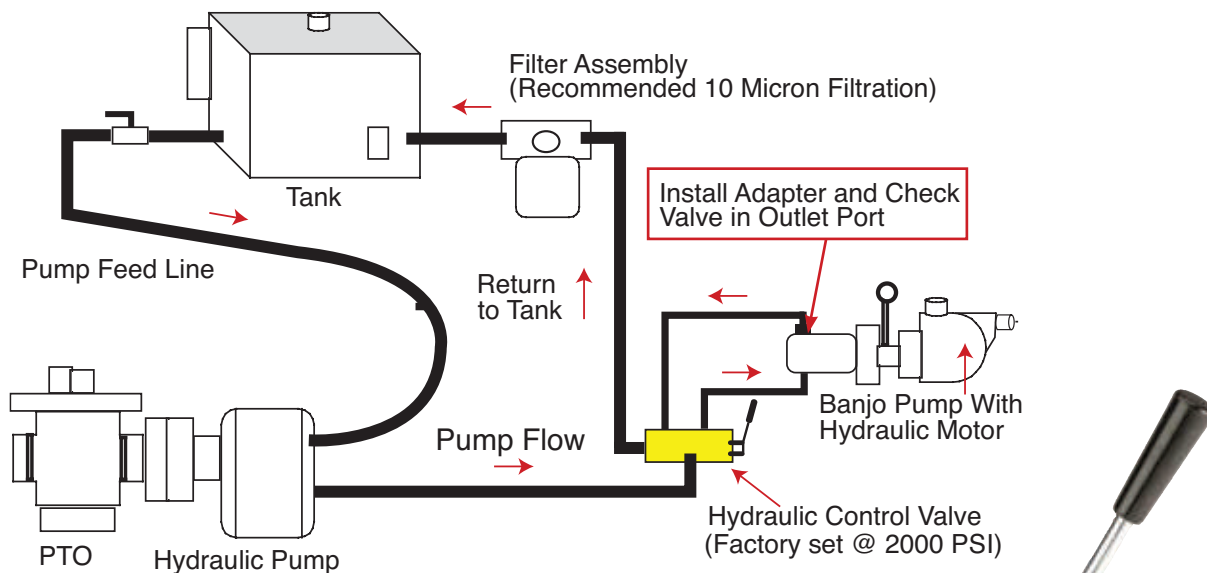
**CAUTION-WARNING:** Please do not run pumps dry, restrict or reduce port sizes or dead head pumps. This could cause component failure to pump.

**DO NOT USE WITH FLAMMABLE LIQUIDS.**

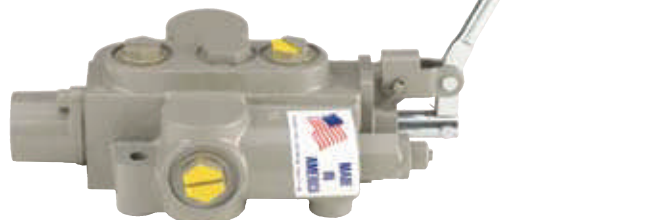


| 3" SS HYDRAULIC PUMPS |                                    |    |     |            |
|-----------------------|------------------------------------|----|-----|------------|
| PART NO               | DESCRIPTION                        | HP | QTY | PRICE      |
| 300PHYSS              | 3" SS Pump w/21 HP Hydraulic Motor | 21 | 1   | \$8,809.21 |

## SPOOL VALVE ASSEMBLY DIAGRAM



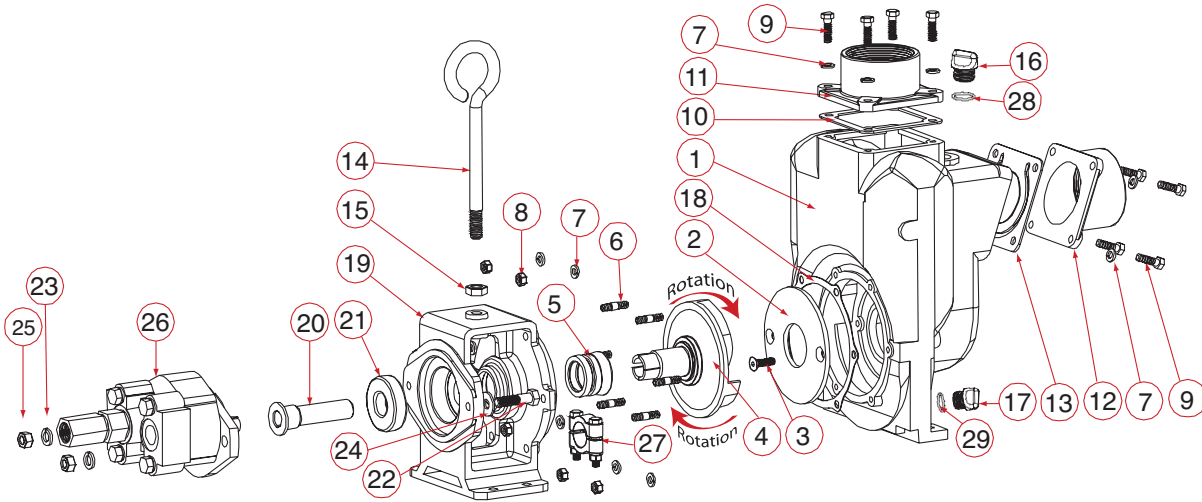
**Recommendation:**  
We recommend using the motor spool control valve or a suitable equivalent. The lack of such a valve in this circuit may cause failure to the hydraulic motor.



| HYDRAULIC MOTOR SPOOL VALVE |                             |     |     |          |
|-----------------------------|-----------------------------|-----|-----|----------|
| PART NO                     | DESCRIPTION                 | HP  | QTY | PRICE    |
| HSV1000                     | Hydraulic Motor Spool Valve | N/A | 1   | \$649.23 |





**HYDRAULIC MOTOR DATA**

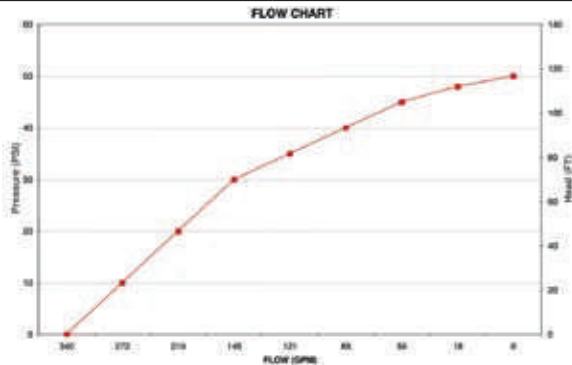
|                        |                 |
|------------------------|-----------------|
| U.S. Gallons/Rev.      | 0.0038          |
| Cubic Inches/Rev.      | 0.878           |
| Liters/Rev.            | 0.0144          |
| Max Hydraulic Pressure | 3000 PSI        |
| Min Hydraulic Pressure | 600 PSI         |
| Inlet Port             | 1-1/16-12UN-2B  |
| Outlet Port            | 1-5/16-12UN-2B  |
| Minimum GPM Required   | 9 GPM 2370 RPM  |
| Maximum GPM Required   | 13 GPM 3450 RPM |
| Ideal GPM Required     | 9 GPM 3600 RPM  |

**CONNECTION INFORMATION**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Inlet                                                                                                                                                                                                                                                                                                                                                                                                                                           | "A" Port |
| Outlet                                                                                                                                                                                                                                                                                                                                                                                                                                          | "B" Port |
| Supplied check valve is to ensure proper rotation of the Banjo pump. Place check valve in outlet port (marked "B") for proper right hand rotation. It is recommended that a minimum 3/4" inlet line & a minimum 1" outlet line be used. The outlet port must be connected directly back to the hydraulic fluid reservoir & not to any valving, regulators or flow diverters. The outlet port/return line back pressure must not exceed 250 PSI. |          |

**SPOOL VALVE INFORMATION**

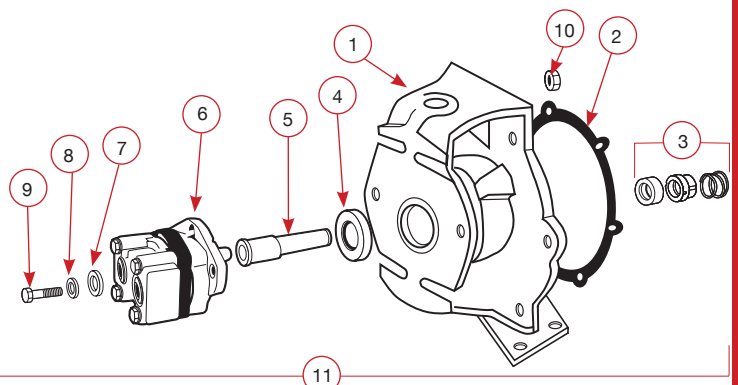
|                          |                            |
|--------------------------|----------------------------|
| Required Outlet Flow     | Min 9 GPM / Max 13 GPM     |
| Required System Pressure | Min 600 PSI / Max 3000 PSI |

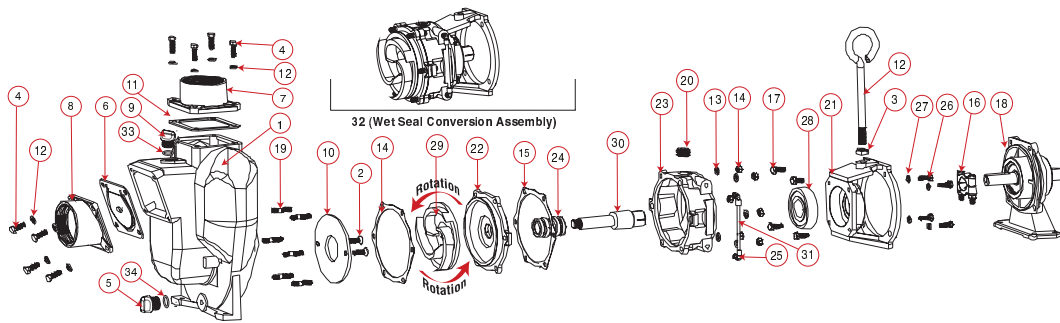
**REPLACEMENT PARTS 3" SS HYDRAULIC ADAPTER**

| ITEM | PART NO | DESCRIPTION                      | QTY | PRICE      |
|------|---------|----------------------------------|-----|------------|
| 1    | 18049SS | C-Flange Hydraulic Motor Adapter | 1   | \$1,183.12 |
| 2    | 18021   | Gasket Adapter                   | 1   | \$7.34     |
| 3    | 18025SS | Seal Assembly                    | 1   | \$310.33   |
| 4    | 18502   | SKF 66306-2RS1/C3 Bearing        | 1   | \$134.40   |
| 5    | 18055   | Hydraulic Adapter Shaft          | 1   | \$44.03    |
| 6    | HY1012  | Tyrone® Hydraulic Motor          | 1   | \$1,451.43 |
| 7    | 18059   | 1/2" Lock Washer                 | 2   | \$2.01     |
| 8    | 18058   | 1/2" Split Lock Washer Bolt      | 2   | \$0.71     |
| 9    | 18056   | 1/2"-13 x 2" HHCS Bolt           | 2   | \$4.61     |
| 10   | 17010   | 1/2" Hex Nut                     | 2   | \$1.17     |
| 11   | 18600SS | Hydraulic Motor Adapter Assembly | 1   | \$3,253.51 |

**REPLACEMENT PARTS 3" SS PUMPS**

| ITEM | PART NO | DESCRIPTION                                  | QTY | PRICE      |
|------|---------|----------------------------------------------|-----|------------|
| 1    | 18001SS | Pump Housing                                 | 1   | \$1,735.86 |
| 2    | 18004SS | Wear Plate                                   | 1   | \$236.60   |
| 3    | 18106SS | 3/8"-16 x 1.25" HHCS                         | 2   | \$14.83    |
| 4    | 18023SS | Impeller & Drive Shaft                       | 1   | \$766.12   |
| 5    | 18025SS | FKM (viton type) Mechanical Seal             | 1   | \$310.33   |
| 6    | 18218   | 3/8"-16 x 3/8"-24 x 1 1/2" SS Stud           | 6   | \$17.49    |
| 7    | V20018  | 3/8" Split Lock Washer                       | 14  | \$0.42     |
| 8    | V20019  | 3/8" 16 SS Hex Nut                           | 6   | \$1.03     |
| 9    | 18010SS | 3/8" - 16 x 1.25" HHCS                       | 8   | \$1.86     |
| 10   | 18044   | FKM (viton type) Outlet Gasket               | 1   | \$123.58   |
| 11   | 18008SS | NPT Outlet Flange                            | 1   | \$178.45   |
| 12   | 18012SS | NPT Inlet Flange                             | 1   | \$248.27   |
| 13   | 18042   | FKM(viton type) Gasket Check Valve Assembly  | 1   | \$193.16   |
| 14   | 18033   | Handle                                       | 1   | \$18.16    |
| 15   | 18034   | 5/8" SS Jam Nut                              | 1   | \$3.16     |
| 16   | 13777   | Plug                                         | 1   | \$2.95     |
| 17   | 12777   | Plug                                         | 1   | \$2.24     |
| 18   | 18021   | Adapter Gasket                               | 1   | \$7.34     |
| 19   | 18049SS | Hydraulic Motor Adapter                      | 1   | \$1,183.12 |
| 20   | 18055   | Hydraulic Adapter Shaft                      | 1   | \$44.03    |
| 21   | 18502   | Bearing Pedestal                             | 1   | \$134.40   |
| 22   | 18056   | 1/2"-13 x 2" HHCS                            | 2   | \$4.61     |
| 23   | 18058   | 1/2" Split Lock Washer                       | 2   | \$0.71     |
| 24   | 18059   | 1/2" Flat Washer                             | 2   | \$2.01     |
| 25   | 17010   | 1/2" Hex Nut                                 | 2   | \$1.17     |
| 26   | HY1012  | UM16-45A-HX Hydraulic Motor Assembly         | 1   | \$1,451.43 |
| 27   | 18029   | Clamp Assembly Unkeyed                       | 1   | \$49.45    |
| 28   | 13778   | O-Ring                                       | 1   | \$1.86     |
| 29   | UV15163 | O-Ring                                       | 1   | \$0.44     |
| N/S  | 18100SS | Repair Kit(Consist of items 2, 3, 4, 5 & 18) | 1   | \$1,338.24 |





### REPLACEMENT PARTS 2" SS WET SEAL PUMPS (OLD STYLE)

| ITEM | PART NO  | DESCRIPTION                                             | QTY | PRICE      |
|------|----------|---------------------------------------------------------|-----|------------|
| 1    | 17026SS  | Pump Housing                                            | 1   | \$1,018.25 |
| 2    | 17130SS  | Flat Head C Sink Screw                                  | 2   | \$14.53    |
| 3    | 17010    | 1/2" Hex Nut                                            | 1   | \$1.17     |
| 4    | 17019    | 5/16" Cap Screw                                         | 8   | \$1.17     |
| 5    | 12777    | Plug                                                    | 1   | \$2.24     |
| 6    | 17017    | FKM (viton type) Gasket                                 | 1   | \$153.81   |
| 7    | 17000SS  | 2" Outlet Flange                                        | 1   | \$87.76    |
| 8    | 17002SS  | 2" Inlet Flange                                         | 1   | \$127.03   |
| 9    | 13777    | Plug                                                    | 1   | \$2.95     |
| 10   | 17011SS  | Wear Plate                                              | 1   | \$164.87   |
| 11   | 17014    | FKM (viton type) Outlet Gasket                          | 1   | \$81.47    |
| 12   | 15022    | Handle                                                  | 1   | \$11.59    |
| 13   | V10118   | 5/16" Lock Washer                                       | 18  | \$0.42     |
| 14   | V10119   | 5/16" -18 SS Hex Nut                                    | 8   | \$0.56     |
| 15   | 17018    | Gasket Adapter                                          | 2   | \$6.56     |
| 16   | 17023    | 5/8" Clamp for 3/4" Shaft Assembly                      | 1   | \$42.49    |
| 16   | 17123    | 5/8" Clamp for 3/4" Shaft Assembly Keyed                | 1   | \$42.49    |
| 16   | 17024    | 7/8" Clamp Shaft Assembly                               | 1   | \$42.49    |
| 17   | 17040    | 5/16" -24 x 1" HHCS                                     | 4   | \$3.71     |
| 18   | 12882A   | Bearing Pedestal                                        | 1   | \$213.64   |
| 19   | 17242    | Housing Stud                                            | 6   | \$5.80     |
| 20   | 17210    | 1/2" Fill Plug                                          | 1   | \$2.79     |
| 21   | 17203A   | Wet Seal Adapter                                        | 1   | \$68.16    |
| 22   | 17202SS  | Cover Plate                                             | 1   | \$213.35   |
| 23   | 17201    | Reservoir                                               | 1   | \$108.93   |
| 24   | 17235    | FKM (viton type) Seal Assembly                          | 1   | \$151.41   |
| 25   | 17211    | 3/16" Legris Male Elbow                                 | 2   | \$17.77    |
| 26   | 17019    | 5/16" -18 x 3/4" Bolt                                   | 4   | \$1.17     |
| 27   | V10118   | 5/16" Lock Washer                                       | 4   | \$0.42     |
| 28   | 12213A   | Bearing                                                 | 1   | \$199.23   |
| 29   | 17208SS  | Impeller                                                | 1   | \$248.27   |
| 30   | 17206    | 3/4" Sleeve Drive                                       | 1   | \$78.80    |
| 31   | 17212    | Liquid Level Tube                                       | 1   | \$1.86     |
| 32   | 17200SS  | Wet Seal Assembly Conversion                            | 1   | \$1,939.50 |
| 33   | UV15163  | O-Ring                                                  | 1   | \$0.44     |
| 34   | 13778    | O-Ring                                                  | 1   | \$1.86     |
| N/S  | 17100WSS | Repair Kit (Consist of items: 2,10, 25, 29, 30, 31, 32) | 1   | \$591.55   |

### REPLACEMENT PARTS 3" SS WET SEAL PUMPS (OLD STYLE)

| ITEM | PART NO  | DESCRIPTION                                                 | QTY | PRICE      |
|------|----------|-------------------------------------------------------------|-----|------------|
| 1    | 18001SS  | Pump Housing                                                | 1   | \$1,735.86 |
| 2    | 18106SS  | Flat Head C Sink Screw                                      | 2   | \$14.83    |
| 3    | 18034    | 5/8" Jam Nut                                                | 1   | \$3.16     |
| 4    | 18010SS  | 3/8" HHCS                                                   | 8   | \$1.86     |
| 5    | 12777    | Plug                                                        | 1   | \$2.24     |
| 6    | 18042    | FKM (viton type) Check Valve Assembly Gasket                | 1   | \$193.16   |
| 7    | 18008SS  | 3" Outlet Flange                                            | 1   | \$178.45   |
| 8    | 18012SS  | 3" Inlet Flange                                             | 1   | \$248.27   |
| 9    | 13777    | Plug                                                        | 1   | \$2.95     |
| 10   | 18004SS  | Wear Plate                                                  | 1   | \$236.60   |
| 11   | 18044    | FKM (viton type) Outlet Gasket                              | 1   | \$123.58   |
| 12   | 18033    | Handle                                                      | 1   | \$18.16    |
| 13   | V20018   | 3/8" Lock Washer                                            | 18  | \$0.42     |
| 14   | V20019   | 3/8" Hex Nut                                                | 8   | \$1.03     |
| 15   | 18021    | Gasket Adapter                                              | 2   | \$7.34     |
| 16   | 18029    | Clamp Assembly                                              | 1   | \$49.45    |
| 16   | 18129    | Clamp Assembly Keyed                                        | 1   | \$49.45    |
| 17   | 17704    | 3/8" -16 x 1 1/4" HHCS                                      | 4   | \$3.08     |
| 18   | 18500    | Bearing Pedestal                                            | 1   | \$440.36   |
| 19   | 18218    | Housing Stud                                                | 6   | \$17.49    |
| 20   | 18205    | 1/2" Fill Plug                                              | 1   | \$2.79     |
| 21   | 18203    | Wet Seal Adapter                                            | 1   | \$154.13   |
| 22   | 18202SS  | Cover Plate                                                 | 1   | \$332.21   |
| 23   | 18201    | Reservoir                                                   | 1   | \$225.19   |
| 24   | 17235    | FKM (viton type) Seal Assembly                              | 1   | \$151.41   |
| 25   | 17211    | 3/16" Legris Male Elbow                                     | 2   | \$17.77    |
| 26   | 17040    | 5/16" - 24 x 3/4" Bolt                                      | 4   | \$3.71     |
| 27   | V10118   | 5/16" Lock Washer                                           | 4   | \$0.42     |
| 28   | 18204    | Bearing                                                     | 1   | \$183.87   |
| 29   | 18223    | Impeller                                                    | 1   | \$324.46   |
| 30   | 18222    | Wet Seal Shaft                                              | 1   | \$204.70   |
| 31   | 17212    | Liquid Level Tube                                           | 1   | \$1.86     |
| 32   | 18200SS  | Wet Seal Assembly Conversion                                | 1   | \$2,288.62 |
| 33   | UV15163  | O-Ring                                                      | 1   | \$0.44     |
| 34   | 13778    | O-Ring                                                      | 1   | \$1.86     |
| N/S  | 18100WSS | Repair Kit (Consist of items: 2,10, 15, 25, 29, 30, 31, 32) | 1   | \$756.38   |

### UNIVERSAL BASE PLATE ASSEMBLY

| PART NO | DESCRIPTION                                                                                              | QTY | PRICE    |
|---------|----------------------------------------------------------------------------------------------------------|-----|----------|
| 18700   | Base Plate Assembly for 1 1/2", 2" & 3" Cast Iron or Poly Pump (Plate, Coupling Guard, Bolt Bag & Shims) | 1   | \$446.74 |
| 18702   | Replacement Coupling Guard                                                                               | 1   | \$32.43  |



18700



| ENGINE REFERENCE    |                               |                                     |                               |                            |
|---------------------|-------------------------------|-------------------------------------|-------------------------------|----------------------------|
| BANJO PART NO       | E3                            | E6.5PRO                             | E11PRO                        | E11PRO100                  |
| MANUFACTURER        | Briggs & Stratton®            | Briggs & Stratton®                  | Briggs & Stratton®            | Briggs & Stratton®         |
| MODEL NO            | 91200                         | 122032013738C1040                   | 2123320139B1G1032             | 2123320140B1G1016          |
| RATED HP            | 3.5 HP @ 3600 RPM             | 6.5 HP @ 3600                       | 11 HP @ 3600                  | 11 HP @ 3600               |
| RATED TORQUE        | 4.9 ft-lbs @ 2800 RPM         | 9 ft-lbs @ 2800 RPM                 | 15.50 ft-lbs @ 2800 RPM       | 15.50 ft-lbs @ 2800 RPM    |
| SHAFT SIZE          | 3/4" Diameter w/ 3/16" Keyway | 3/4" Diameter w/ 3/16" Keyway       | 3/4" Diameter w/ 3/16" Keyway | 1" Diameter w/ 1/4" Keyway |
| SHAFT ID THREAD     | 5/16"-24 UNF 2B               | 5/16"-24 UNF 2B                     | 5/16"-24 UNF 2B               | 3/8"-24 UNF 2B             |
| ENGINE OIL REQUIRED | Synthetic 5W30                | Above 40°F: 30W<br>Below 40°F: 5W30 | Synthetic 10W30               | Synthetic 10W30            |
| ENGINE OIL CAPACITY | 21 oz                         | 20 oz                               | 28 oz                         | 28 oz                      |
| FUEL REQUIRED       | 77                            | 77                                  | 77                            | 77                         |
| FUEL TANK CAPACITY  | .50 Gallon                    | 1 Gallon                            | 1 Gallon                      | 1 Gallon                   |
| OIL ALERT           | N                             | N                                   | N                             | N                          |
| ELCTRIC START       | N                             | N                                   | N                             | N                          |
| OVER HEAD VALVE     | N                             | N                                   | N                             | N                          |

| ENGINE REFERENCE    |                               |                               |
|---------------------|-------------------------------|-------------------------------|
| BANJO PART NO       | E5H                           | E5HE                          |
| MANUFACTURER        | Honda®                        | Honda®                        |
| MODEL NO            | GX160                         | GX160                         |
| RATED HP            | 5.4 HP @ 3600                 | 5.4 HP @ 3600                 |
| RATED TORQUE        | 8.0 ft-lbs @ 2500 RPM         | 8.0 ft-lbs @ 2500 RPM         |
| SHAFT SIZE          | 3/4" Diameter w/ 3/16" Keyway | 3/4" Diameter w/ 3/16" Keyway |
| SHAFT ID THREAD     | 5/16"-24 UNF 2B               | 5/16"-24 UNF 2B               |
| ENGINE OIL REQUIRED | 10W30                         | 10W30                         |
| ENGINE OIL CAPACITY | .63 qt                        | .63 qt                        |
| FUEL REQUIRED       | 86                            | 86                            |
| FUEL TANK CAPACITY  | .95 Gallon                    | .95 Gallon                    |
| OIL ALERT           | Y                             | Y                             |
| ELCTRIC START       | N                             | Y                             |
| OVER HEAD VALVE     | Y                             | Y                             |

**For Engine Warranty Service Contact:**

**Briggs and Stratton: (414) 259-5262 or  
www.briggsandstratton.com**



**Honda: (800) 426-7701  
or www.honda.com**



| ENGINE REFERENCE    |                               |                            |                            |                            |
|---------------------|-------------------------------|----------------------------|----------------------------|----------------------------|
| BANJO PART NO       | E6H                           | E8H                        | E11H                       | E13H                       |
| MANUFACTURER        | Honda®                        | Honda®                     | Honda®                     | Honda®                     |
| MODEL NO            | GX200                         | GX240                      | GX340                      | GX390                      |
| RATED HP            | 6.4 HP @ 3600                 | 8.0 HP @ 3600              | 11.0 HP @ 3600             | 13.0 HP @ 3600             |
| RATED TORQUE        | 7.76 ft-lbs @ 2600 RPM        | 12.3 ft-lbs @ 2500 RPM     | 17.4 ft-lbs @ 2500 RPM     | 19.5 ft-lbs @ 2500 RPM     |
| SHAFT SIZE          | 3/4" Diameter w/ 3/16" Keyway | 1" Diameter w/ 1/4" Keyway | 1" Diameter w/ 1/4" Keyway | 1" Diameter w/ 1/4" Keyway |
| SHAFT ID THREAD     | 5/16"-24 UNF 2B               | 3/8"-24 UNF 2B             | 3/8"-24 UNF 2B             | 3/8"-24 UNF 2B             |
| ENGINE OIL REQUIRED | 10W30                         | 10W30                      | 10W30                      | 10W30                      |
| ENGINE OIL CAPACITY | .63 qt                        | 1.16 qt                    | 1.16 qt                    | 1.16 qt                    |
| FUEL REQUIRED       | 86                            | 86                         | 86                         | 86                         |
| FUEL TANK CAPACITY  | .95 Gallon                    | 1.59 Gallon                | 1.72 Gallon                | 1.72 Gallon                |
| OIL ALERT           | Y                             | Y                          | Y                          | Y                          |
| ELCTRIC START       | N                             | Y                          | Y                          | Y                          |
| OVER HEAD VALVE     | Y                             | Y                          | Y                          | Y                          |

| ENGINE REFERENCE |             |             |              |             |              |
|------------------|-------------|-------------|--------------|-------------|--------------|
| BANJO PART NO    | BEM3        | BEM5        | BEM51        | BEM10       | BEM15        |
| MANUFACTURER     | Marathon®   | Marathon®   | Marathon®    | Marathon®   | Marathon®    |
| MODEL NO         | C236        | C385        | 184TBFR17009 | C392        | 215TTFW14010 |
| RATED HP         | 3 HP        | 5 HP        | 5 HP         | 10 HP       | 15 HP        |
| SHAFT SIZE       | 7/8"        | 1 1/8"      | 1 1/8"       | 1 3/8"      | 1 3/8"       |
| DESCRIPTION      | TEFC        | TEFC        | TEFC         | TEFC        | TEFC         |
| PHASE            | 3           | 3           | 1            | 3           | 3            |
| RPM @ 60 HZ      | 3450        | 3450        | 3600         | 3450        | 3450         |
| NEMA FRAME SIZE  | 145TC       | 184TC       | 184TC        | 215TC       | 215TC        |
| VOLTAGE          | 208-230/460 | 208-230/460 | 230          | 208-230/460 | 208-230/460  |
| EFF@FULL LOAD    | 85.5        | 87.5        | 88.5         | 88.5        | 88.5         |

# TANK WALL GUIDE FOR BANJO TANK FITTINGS

| PART NO   | DESCRIPTION                                                         | MAX TANK WALL THICKNESS | AVAILABILITY                  |
|-----------|---------------------------------------------------------------------|-------------------------|-------------------------------|
| BF075     | ¾" Blind Hole Tank Flange                                           | .250                    | Stock                         |
| BF075BD   | ¾" x 1" Bottom Drain Flange EPDM Thread                             | .250                    | Stock                         |
| BF075BDV  | ¾" x 1" Bottom Drain Flange FKM (viton type) Thread                 | .250                    | Stock                         |
| BF075V    | ¾" Bolted Tank Flange FKM (viton type) Thread                       | .250                    | Stock                         |
| BF100     | 1" Blind Hole Bolted Tank Flange                                    | .250                    | Stock                         |
| BF100BD   | 1" x 1" Bottom Drain Flange EPDM Thread                             | .250                    | Stock                         |
| BF100BDV  | 1" x 1" Bottom Drain Flange FKM (viton type) Thread                 | .250                    | Stock                         |
| BF100V    | 1" Bolted Tank Flange FKM (viton type) Thread                       | .250                    | Stock                         |
| BF125     | 1¼" Bolted Tank Flange                                              | .250                    | Stock                         |
| BF125BD   | 1¼" x 1" Bottom Drain Flange EPDM Thread                            | .270                    | Stock                         |
| BF125BDV  | 1¼" x 1" Bottom Drain Flange FKM (viton type) Thread                | .270                    | Stock                         |
| BF150     | 1½" Bolted Tank Flange                                              | .280                    | Stock                         |
| BF150BD   | 1½" x 2" Bottom Drain Flange EPDM Thread                            | .220                    | Stock                         |
| BF150BDV  | 1½" x 2" Bottom Drain Flange FKM (viton type) Thread                | .220                    | Stock                         |
| BF150V    | 1½" Bolted Tank Flange FKM (viton type) Thread                      | .280                    | Stock                         |
| BF200     | 2" Blind Hole Bolted Tank Flange                                    | .280                    | Stock                         |
| BF200BD   | 2" x 2" Bottom Drain Flange EPDM Thread                             | .220                    | Stock                         |
| BF200BDV  | 2" x 2" Bottom Drain Flange FKM (viton type) Thread                 | .220                    | Stock                         |
| BF205BD   | 2" Bottom Drain Fittings with ¾" Bolts                              | .750                    | Non-Stock (1-2 week delivery) |
| BF220     | 2" Full Port Bolted Tank Flange                                     | .250                    | Stock                         |
| BF220BD   | 2" x 2" Full Port Bottom Drain Flange EPDM Thread                   | .250                    | Stock                         |
| BF220BDV  | 2" x 2" Full Port Bottom Drain Flange FKM (viton type) Thread       | .250                    | Stock                         |
| BF220V    | 2" Full Port Bolted Tank Flange FKM (viton type) Thread             | .250                    | Stock                         |
| BF222BD   | 2" Full Port Bolted Flange with ¾" All Thread Bolt                  | .750                    | Non-Stock (1-2 week delivery) |
| BF223     | 2" Full Port Bolted Flange with 3" Bolts                            | 1.000                   | Non-Stock (1-2 week delivery) |
| BF223BD   | 2" x 2" Flange with 3" All Thread Bolt                              | 1.060                   | Non-Stock (1-2 week delivery) |
| BF224     | 2" Full Port Bolted Flange with 4" Bolts                            | 1.810                   | Non-Stock (1-2 week delivery) |
| BF230     | 2" Bolted Flange with 3" All Thread Bolt                            | 1.060                   | Non-Stock (1-2 week delivery) |
| BF235     | 2" Bolted Flange with 3½" All Thread Bolt                           | 1.310                   | Non-Stock (1-2 week delivery) |
| BF235BD   | 2" Bottom Drain Flange with 3½" Bolts                               | 1.000                   | Non-Stock (1-2 week delivery) |
| BF300     | 3" x 3" Bolted Tank Flange                                          | .500                    | Stock                         |
| BF300BD   | 3" x 3" Bottom Drain Flange EPDM Thread                             | .500                    | Stock                         |
| BF300BDV  | 3" x 3" Bottom Drain Flange FKM (viton type) Thread                 | .500                    | Stock                         |
| BF300V    | 3" Bolted Tank Flange with FKM (viton type) Thread                  | .500                    | Stock                         |
| BF330     | 3" Bolted Tank Flange with 3" All Thread Bolt                       | .750                    | Non-Stock (1-2 week delivery) |
| BF335     | 3" Bolted Tank Flange with 3½" All Thread Bolt                      | 1.250                   | Non-Stock (1-2 week delivery) |
| BF335BD   | 3" Bottom Drain Bolted Tank Flange with 3½" All Thread Bolt         | .750                    | Non-Stock (1-2 week delivery) |
| MBF100    | 1" Bolted Manifold Tank Flange with 2¼" Bolts                       | .280                    | Stock                         |
| MBF100BD  | 1" Bottom Drain Manifold Bolted Tank Flange EPDM Thread             | .280                    | Stock                         |
| MBF100BDV | 1" Bottom Drain Manifold Bolted Tank Flange FKM (viton type) Thread | .280                    | Stock                         |
| MBF100V   | 1" Bolted Tank Flange Full Port with FKM (viton type) Thread        | .280                    | Stock                         |
| MBF105    | 1" Bolted Manifold Tank Flange with 2¾" Bolts                       | .750                    | Non-Stock (1-2 week delivery) |
| MBF106    | 1" Bolted Manifold Tank Flange with ¾" Bolts                        | .750                    | Non-Stock (1-2 week delivery) |
| MBF200    | 2" Bolted Manifold Tank Flange with 2½" Bolts                       | .210                    | Stock                         |
| MBF200BD  | 2" Bottom Drain Manifold Tank Flange                                | .500                    | Stock                         |
| MBF200V   | 2" Standard Port Flange x 2" Female FKM (viton type) Thread         | .210                    | Stock                         |
| MBF205BD  | 2" Bottom Drain Tank Flanged Tank Fitting with ¾" Bolt              | .650                    | Non-Stock (1-2 week delivery) |
| MBF220    | 2" Full Port Manifold Flange with 2½" Bolts                         | .320                    | Stock                         |
| MBF220BD  | 2" Full Port Manifold Bottom Drain Flange EPDM Thread               | .550                    | Stock                         |
| MBF220BDV | 2" Full Port Manifold Bottom Drain Flange FKM (viton type) Thread   | .550                    | Stock                         |
| MBF222    | 2" Full Port Manifold Tank Flange with ¾" Bolts                     | 1.050                   | Non-Stock (1-2 week delivery) |
| MBF222BD  | 2" Full Port Manifold Bottom Drain Tank Flange with ¾" Bolts        | 1.050                   | Non-Stock (1-2 week delivery) |
| MBF223    | 2" Full Port Manifold Bolted Tank Flange with 3" Bolts              | .800                    | Non-Stock (1-2 week delivery) |
| MBF235    | 2" Manifold Tank Flange with 3½" Bolts                              | 1.320                   | Non-Stock (1-2 week delivery) |
| MBF300    | 3" Bolted Manifold Tank Flange EPDM Thread                          | .500                    | Stock                         |
| MBF300BD  | 3" Bottom Drain Manifold Tank Flange EPDM Thread                    | .500                    | Stock                         |
| MBF300BDV | 3" Bottom Drain Manifold Bolted Tank Flange FKM (viton type) Thread | .500                    | Stock                         |
| MBF335    | 3" Bolted Manifold Tank Flange with 3½" Bolts                       | 1.250                   | Non-Stock (1-2 week delivery) |
| MBF335BD  | 3" Bolted Manifold Tank Flange with ¾" Bolts                        | .500                    | Non-Stock (1-2 week delivery) |

| BRITISH PIPE THREAD |                                                                                                    |          |
|---------------------|----------------------------------------------------------------------------------------------------|----------|
| PART NO             | DESCRIPTION                                                                                        | PAGE NO. |
| DM100ABSS           | 1" Stainless Steel Male Dry Mate with British Standard Pipe Thread & All PTFE Seals                | 84       |
| DM100DBSS           | 1" Stainless Steel Female Dry Mate with British Standard Pipe Thread & FKM (viton type) Face Seal  | 84       |
| DM100DBSSE          | 1" Stainless Steel Female Dry Mate with British Standard Pipe Thread & EPDM Face Seal              | 84       |
| DM100DBSST          | 1" Stainless Steel Female Dry Mate with British Standard Pipe Thread & Kalrez Face Seal            | 84       |
| DM150AB             | 1½" Poly Male Dry Mate with British Standard Pipe Thread & FKM(viton type) Face Seal               | 82       |
| DM150ABSS           | 1½" Stainless Steel Male Dry Mate with British Standard Pipe Thread & All PTFE Seals               | 86       |
| DM150DB             | 1½" Poly Female Dry Mate with British Standard Pipe Thread                                         | 82       |
| DM150DBSS           | 1½" Stainless Steel Female Dry Mate with British Standard Pipe Thread & FKM (viton type) Face Seal | 86       |
| DM150DBSSE          | 1½" Stainless Steel Female Dry Mate with British Standard Pipe Thread & EPDM Face Seal             | 86       |
| DM150DBSST          | 1½" Stainless Steel Female Dry Mate with British Standard Pipe Thread & Kalrez Face Seal           | 86       |
| DM200AB             | 2" Poly Male Dry Mate with British Standard Pipe Threads & FKM (viton type) Face Seal              | 82       |
| DM200ABSS           | 2" Stainless Steel Male Dry Mate with British Standard Pipe Thread                                 | 88       |
| DM200DB             | 2" Poly Female Dry Mate with British Standard Pipe Threads & FKM (viton type) Face Seal            | 82       |
| DM200DBSS           | 2" Stainless Steel Female Dry Mate with British Standard Pipe Thread & FKM (viton type) Face Seal  | 88       |
| DM200DBSSE          | 2" Stainless Steel Female Dry Mate with British Standard Pipe Thread & EPDM Face Seal              | 88       |
| DM200DBSST          | 2" Stainless Steel Female Dry Mate with British Standard Pipe Thread & Kalrez Face Seal            | 88       |
| DM220ABSS           | 2" Male x BSP Threads w/PTFE Seals                                                                 | 6        |
| DM220DBSS           | 2" FP Female x BSP Threads                                                                         | 6        |
| DM220DBSSE          | 2" FP Female x BSP Threads w/EPDM Seals                                                            | 6        |
| DM220DBSSTS         | 2" FP Female x BSP Threads w/ TFE Encap O-Ringw/ TFE Encap O-Ring                                  | 6        |
| M100BSP             | 1" Manifold Flange x 1" Male British Standard Pipe Thread                                          | 74       |
| M200BSP             | 2" Manifold Flange x 2" Male British Standard Pipe Thread                                          | 74       |
| M220BSP             | 2" Full Port Manifold Flange x 2" Male British Standard Pipe Thread                                | 74       |
| M300BSP             | 3" Full Port Manifold Flange x 3" Male British Standard Pipe Thread                                | 74       |
| NIP2101             | 2" NPT x British Standard Pipe Thread-White                                                        | 92       |
| TF200BSP            | 2" Poly Bulkhead British Standard Pipe Thread Tank Fitting                                         | 98       |
| TF300BSP            | 3" Poly Bulkhead British Standard Pipe Thread Tank Fitting                                         | 98       |
| WV050FPB            | ½" Poly Spinweld Valve with British Standard Pipe Threads                                          | 30       |
| WV075FPB            | ¾" Poly Spinweld Valve with British Standard Pipe Threads                                          | 30       |
| WV100FPB            | 1" Poly Spinweld Valve with British Standard Pipe Threads                                          | 30       |
| WV125FPB            | 1¼" Poly Spinweld Valve with British Standard Pipe Threads                                         | 30       |
| WV150FPB            | 1½" Poly Spinweld Valve with British Standard Pipe Threads                                         | 30       |
| WV200FPB            | 2" Full Port Poly Spinweld Valve with British Standard Pipe Threads                                | 30       |



| PART NO     | PAGE        | WEIGHT |
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| 050C        | 107         | 0.14   |
| 050D        | 107         | 0.16   |
| 050E        | 107         | 0.05   |
| 050F        | 107         | 0.06   |
| 075ASS      | 102         | 0.27   |
| 075BSS      | 102         | 0.49   |
| 075C        | 107         | 0.15   |
| 075CAP      | 107         | 0.13   |
| 075CAP/SS   | 102         | 0.49   |
| 075CAPFD    | 105         | 0.13   |
| 075CFD      | 105         | 0.56   |
| 075CSS      | 102         | 0.54   |
| 075D        | 107         | 0.15   |
| 075D3/8     | 107         | 0.17   |
| 075DFD      | 105         | 0.51   |
| 075DSS      | 102         | 0.50   |
| 075E        | 107         | 0.06   |
| 075EFD      | 105         | 0.06   |
| 075ESS      | 102         | 0.42   |
| 075F        | 107         | 0.06   |
| 075FFD      | 105         | 0.06   |
| 075FSS      | 102         | 0.37   |
| 075GXT      | 108         | 0.01   |
| 075PL/SS    | 102         | 0.17   |
| 100125CAP   | 107         | 0.27   |
| 100125CAPFD | 105         | 0.27   |
| 100125PL    | 107         | 0.06   |
| 100125PLFD  | 105         | 0.29   |
| 100A        | 107         | 0.09   |
| 100AFD      | 105         | 0.10   |
| 100ASS      | 102         | 0.32   |
| 100B        | 107         | 0.29   |
| 100BFD      | 105         | 0.25   |
| 100BSS      | 102         | 0.71   |
| 100C        | 107         | 0.27   |
| 100CAP/SS   | 102         | 0.66   |
| 100CFD      | 105         | 0.27   |
| 100CSS      | 102         | 0.73   |
| 100D        | 107         | 0.31   |
| 100DFD      | 105         | 0.31   |
| 100DSS      | 102         | 0.75   |
| 100E        | 107         | 0.10   |
| 100EFD      | 105         | 0.10   |
| 100ESS      | 102         | 0.58   |
| 100F        | 107         | 0.11   |
| 100FFD      | 105         | 0.11   |
| 100FSS      | 102         | 0.58   |
| 100G        | 98,108      | 0.20   |
| 100GB       | 103,108     | 1.20   |
| 100GV       | 98,103,108  | 0.20   |
| 100GW       | 105         |        |
| 100GXT      | 108         | 0.01   |
| 100K        | 103,105,108 | 0.13   |
| 100P        | 85,103,105  | 0.15   |
|             | 108         |        |

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| 100PL/SS | 102          | 0.27   |
| 100RING  | 85,103,105   | 0.12   |
|          | 108          |        |
| 12000A   | 131,133      | 0.75   |
| 12000AV  | 131,133      | 0.90   |
| 12003A   | 131,133      | 0.75   |
| 12003VAT | 135          |        |
| 12005VAT | 135          |        |
| 12034    | 145,147,     |        |
|          | 179,181      |        |
| 12046    | 135,137,153  |        |
| 12048    | 135          | 0.50   |
| 12049B   | 139,143,181  | 8.00   |
| 12051    | 135          | 0.13   |
| 12052    | 137          |        |
| 12055B   | 139,143      | 0.50   |
| 12099    | 131,133,135  | 0.03   |
|          | 137,141,149  |        |
|          | 151,153,     |        |
| 12155    | 145,147      |        |
| 12201W   | 147          |        |
| 12202W   | 145,147      |        |
| 12213A   | 173,192      |        |
| 12214A   | 165,189      | 0.03   |
| 125A     | 107          | 0.10   |
| 125B     | 107          | 0.30   |
| 125C     | 107          | 0.29   |
| 125CFD   | 105          | 0.29   |
| 125D     | 107          | 0.31   |
| 125DFD   | 105          |        |
| 125E     | 107          | 0.11   |
| 125F     | 107          |        |
| 12600B   | 139,143,     | 14.00  |
|          | 149,151      |        |
| 12702A   | 131,133,135, | 1.13   |
|          | 137,139,145  |        |
| 12703A   | 131,133,135, | 2.07   |
|          | 137,139,141, |        |
|          | 143          |        |
| 12703AW  | 147          |        |
| 12705    | 131,133,139, | 0.24   |
|          | 141,143,145, |        |
|          | 147,149,151, |        |
|          | 153,177,177  |        |
|          | 179,181,183  |        |
| 12705V   | 131,133,135, | 0.24   |
|          | 137,139,141  |        |
|          | 143          |        |
| 12707W   | 145,147      |        |
| 12709    | 145,147,177, |        |
|          | 179,181,183, |        |
| 12710    | 131,133,139  | 0.01   |
|          | 141,143,149  |        |
|          | 151,153      |        |
| 12710V   | 131,133,     | 0.01   |

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| 12711A  | 131,133  |        |
| 12712A  | 131,133, | 3.25   |
|         | 139,145  |        |
| 12712AV | 135,137  |        |
| 12713   | 131,133, | 0.11   |
|         | 135,139, |        |
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| 12713SD | 149,151, | 0.10   |
|         | 153      |        |
| 12713V  | 131,133, | 0.12   |
|         | 137,141, |        |
|         | 149,151, |        |
|         | 153      |        |
| 12715A  | 131,133, | 0.04   |
|         | 139,141, |        |
|         | 143,149, |        |
|         | 151,153, |        |
|         | 177,179, |        |
|         | 181,183  |        |
| 12715AT | 135      | 0.05   |
| 12716   | 131,133, | 0.02   |
|         | 135,141, |        |
|         | 149,151  |        |
| 12717   | 131,133, | 0.01   |
|         | 139,141, |        |
|         | 143,145, |        |
|         | 147,149, |        |
|         | 151,153, |        |
|         | 177,179, |        |
|         | 181,183  |        |
| 12717V  | 131,133, | 0.01   |
|         | 135,137, |        |
|         | 139,141, |        |
|         | 143      |        |
| 12719A  | 131,133, | 0.03   |
|         | 139,141, |        |
|         | 143,145, |        |
|         | 147,149, |        |
|         | 151,153, |        |
|         | 177,179, |        |
|         | 181,183  |        |
| 12719AV | 131,133, | 0.05   |
|         | 135,137, |        |
|         | 141      |        |
| 12720   | 131,133, | 0.03   |
|         | 135,137, |        |
|         | 139,141, |        |
|         | 143,145, |        |
|         | 147      |        |
| 12723   | 31,125   | 0.02   |
| 12724   | 31,125   | 0.01   |
| 12725   | 131,133, | 0.02   |

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| 12725T  | 135      |        |
| 12729VA | 135      |        |
| 12754   | 131,133, | 0.01   |
|         | 139,141, |        |
|         | 143,145, |        |
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| 12754V  | 131,133, | 0.01   |
|         | 135,137, |        |
|         | 139,141, |        |
|         | 143      |        |
| 12756   | 137      |        |
| 12758   | 135      |        |
| 12765A  | 131,133, | 0.05   |
|         | 137,139, |        |
|         | 141,143, |        |
|         | 149,151, |        |
|         | 153      |        |
| 12765AT | 135      | 0.07   |
| 12766   | 145,147, |        |
|         | 177      |        |
| 12771A  | 131,133, | 0.23   |
|         | 135      |        |
| 12772   | 131,133, | 0.20   |
|         | 135,137, |        |
|         | 139,145  |        |
| 12774VA | 131,133, | 0.01   |
|         | 135,137, |        |
|         | 139,141, |        |
|         | 143,145, |        |
|         | 147,149, |        |
|         | 151,153, |        |
|         | 179      |        |
| 12775A  | 131,133, | 0.03   |
|         | 135,137, |        |
|         | 139,141, |        |
|         | 143,145, |        |
|         | 147      |        |
| 12777   | 77,121,  | 0.02   |
|         | 125,131, |        |
|         | 133,135, |        |
|         | 137,139, |        |
|         | 145,147, |        |
|         | 159,161, |        |
|         | 163,165, |        |
|         | 167,169, |        |
|         | 171,173, |        |
|         | 175,179, |        |
|         | 181,185, |        |
|         | 187,189, |        |
|         | 191,192  |        |
| 12882A  | 131,133, | 7.60   |
|         | 135,141, |        |

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|         | 149,151, |        |
|         | 159,161, |        |
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|         | 185,192  |        |
| 12882R  | 159,161  | 6.13   |
| 12883B  | 159,161  | 0.20   |
| 12883R  | 159,161  | 0.88   |
| 12884   | 159,161  | 0.03   |
| 12900   | 131,133, | 0.02   |
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| 12900T  | 135      | 0.03   |
| 12901   | 131,133, | 0.01   |
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| 12999A  | 131,133  | 0.25   |
| 12999AV | 131,133  | 0.32   |
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| 13000   | 141      | 0.75   |
| 13000V  | 141      | 0.90   |
| 13055   | 147,179, | 161    |
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| 13712   | 141,143, | 4.00   |
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| 13719   | 145,147, |        |
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| 13765   | 141,155  | 0.03   |
| 13766   | 147,179  |        |
| 13771   | 141,143  | 0.15   |
| 13772   | 147      | 0.25   |
| 13777   | 79,128,  | 0.03   |
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| 13999V     | 141       | 0.35   |
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| 150A       | 107       | 0.18   |
| 150A90     | 110       | 0.24   |
| 150AFD     | 105       | 0.18   |
| 150ASS     | 103       | 0.75   |
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| 150FFD          | 105       | 0.22   |
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| 150G            | 75,98,108 | 0.30   |
| 150GB           | 103,108   | 0.02   |
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| 17035SS  | 185,187,189 | 0.18   |
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| 200PHASS        | 188      |        |
| 200PHY          | 138      | 25.00  |
| 200PHYSS        | 188      |        |
| 200PI-3         | 158      | 81.00  |
| 200PI6PRO       | 158      | 90.00  |
| 200PIH-5        | 158      | 105.00 |
| 200PIH5E        | 158      |        |
| 200PIHA         | 164      |        |
| 200PIHY         | 164      |        |
| 200PKL          | 109      | 0.06   |
| 200PL           | 107      | 0.21   |
| 200PL/SS        | 103      | 0.99   |
| 200PLFD         | 105      | 0.25   |
| 200PO           | 132      | 9.00   |
| 200POI          | 160      | 52.50  |
| 200POICF5/8     | 160      | 47.00  |
| 200POICF5/8-4.1 | 160      | 47.00  |
| 200POICF5/8-4.6 | 160      | 47.00  |
| 200POICF7/8     | 160      | 47.00  |
| 200POICF7/8-4.1 | 160      | 47.00  |
| 200POICF7/8-4.6 | 160      | 47.00  |
| 200PO-SS        | 184      | 47.00  |
| 200POSSCF5/8    | 184      | 47.00  |
| 200POSSCF7/8    | 184      | 90.00  |
| 200PO-V         | 132      |        |
| 200SBS          | 152,162, | 0.25   |
|                 | 168,172, |        |
|                 | 174,186  |        |
| 201B            | 109      | 0.63   |
| 201CAPSH        | 95       | 0.50   |
| 201FPT          | 95       | 0.03   |
| 201PBIW         | 172      |        |
| 201PI6PROW      | 172      | 98.00  |
| 201PIH5W        | 172      |        |
| 201POIW         | 172      | 59.00  |
| 202CAP          | 95       | 0.26   |
| 205PB           | 132      | 16.00  |
| 205PB-V         | 132      | 16.00  |
| 205PB-VA        | 134      |        |
| 205PO           | 132      | 9.00   |
| 205PO-V         | 132      | 9.00   |
| 211FPT          | 95       | 0.03   |
| 220FSWP90       | 109      | 0.70   |
| 222PBI          | 150      | 70.00  |
| 222PI6PRO       | 148      | 107.00 |
| 222PIE5         | 152      | 180.00 |
| 222PIE51        | 152      | 190.00 |
| 222PIH5         | 148      | 103.00 |
| 222PIH5E        | 148      | 110.00 |
| 222PIH6         | 148      | 110.00 |
| 222PIHY         | 150      |        |
| 222POI          | 150      | 60.00  |
| 225POI          | 150      | 60.00  |
| 231EPA          | 6,94     | 0.10   |
| 231MPT          | 94       | 0.03   |



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| 231MPTBN  | 94        |        |
| 234PE3SS  | 186       | 145.00 |
| 234PE51SS | 186       | 180.00 |
| 234PE5SS  | 186       | 185.00 |
| 234PIE3   | 162       | 140.00 |
| 234PIE5   | 162       | 175.00 |
| 234PIE51  | 162       | 200.00 |
| 234POI    | 162       |        |
| 234PPE5   | 136       | 135.00 |
| 234PPE51  | 136       |        |
| 234PPE51V | 136       | 145.00 |
| 234PPE5V  | 136       | 123.00 |
| 234PPE5VA | 134       |        |
| 250CAP    | 107       | 0.68   |
| 250G      | 108       | 0.35   |
| 250PL     | 107       | 0.42   |
| 300A      | 108       | 0.48   |
| 300AFD    | 105       | 0.49   |
| 300ASS    | 103       | 1.91   |
| 300B      | 108       | 1.17   |
| 300BFD    | 105       | 1.13   |
| 300BSS    | 103       | 3.30   |
| 300C      | 108       | 1.40   |
| 300CAP    | 108       | 1.07   |
| 300CAP/SS | 103       | 3.61   |
| 300CAPFD  | 105       | 0.54   |
| 300CFD    | 105       | 1.32   |
| 300CSS    | 103       | 5.06   |
| 300D      | 108       | 1.19   |
| 300DFD    | 105       | 1.07   |
| 300DSS    | 103       | 4.54   |
| 300E      | 108       | 0.78   |
| 300EFD    | 105       | 0.78   |
| 300ESS    | 103       | 4.62   |
| 300F      | 108       | 0.57   |
| 300FF     | 108       | 0.60   |
| 300FFD    | 105       | 0.57   |
| 300F200F  | 108       | 0.57   |
| 300FSS    | 103       | 3.81   |
| 300G      | 69,75,98, | 0.06   |
|           | 108       |        |
| 300GB     | 103,108   | 0.04   |
| 300GFD    | 105       | 0.05   |
| 300GV     | 75,98,103 | 0.06   |
|           | 108       |        |
| 300GVXT   | 108       | 0.07   |
| 300GXT    | 108       | 0.04   |
| 300K      | 105,108,  | 0.31   |
|           | 123       |        |
| 300K6     | 103       | 0.23   |
| 300MP     | 103       | 0.03   |
| 300P      | 105,108,  | 0.12   |
|           | 123       |        |
| 300P6PROW | 146       |        |
| 300P11PRO | 140       |        |

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| 300P11PROW | 146      | 67.00  |
| 300PB      | 140      | 20.00  |
| 300PBI     | 168      | 125.00 |
| 300PB-SS   | 184      | 100.00 |
| 300PBW     | 146      | 26.00  |
| 300PH11-SS | 184      | 150.00 |
| 300PH11W   | 146      |        |
| 300PH13SS  | 184      | 150.00 |
| 300PH-6    | 140      | 50.00  |
| 300PH6W    | 146      | 56.00  |
| 300PHY     | 142      | 26.00  |
| 300PHYSS   | 190      | 140.00 |
| 300PI11PRO | 166      |        |
| 300PIH-11  | 166      | 192.00 |
| 300PIH13   | 166      | 210.00 |
| 300PIH-8   | 166      | 195.00 |
| 300PIHY    | 170      | 140.00 |
| 300PL      | 108      | 0.43   |
| 300PL/SS   | 103      | 1.98   |
| 300PLFD    | 105      |        |
| 300PO      | 140      |        |
| 300POI     | 168      | 106.00 |
| 300POICF   | 168      | 90.00  |
| 300PO-SS   | 184      | 115.00 |
| 300PO-SSCF | 184      | 90.00  |
| 300SBS     | 152,162, | 0.25   |
|            | 168,172, |        |
|            | 174,186  |        |
| 301PBIW    | 174      | 135.00 |
| 301PIH13W  | 174      |        |
| 301POIW    | 174      | 130.00 |
| 303B       | 108,109  | 1.50   |
| 303B200A   | 109      | 1.42   |
| 303C       | 108,109  | 1.66   |
| 333PBI     | 154      | 185.00 |
| 333PIE15   | 154      | 242.00 |
| 333PIH13   | 154      | 285.00 |
| 400A       | 108      | 1.31   |
| 400ASS     | 103      | 3.70   |
| 400B       | 108      | 2.03   |
| 400BSS     | 103      | 5.26   |
| 400C       | 108      | 2.39   |
| 400CAP     | 108      | 1.44   |
| 400CAP/SS  | 103      | 5.11   |
| 400CSS     | 103      | 6.74   |
| 400D       | 108      | 2.07   |
| 400DSS     | 103      | 6.96   |
| 400E       | 108      | 2.11   |
| 400ESS     | 103      | 6.53   |
| 400F       | 108      | 1.47   |
| 400FSS     | 103      | 6.27   |
| 400G       | 108      | 0.06   |
| 400GB      | 103,108  | 0.07   |
| 400GV      | 108      | 0.19   |
| 400GXT     | 108      | 0.07   |

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| 400PL      | 108         | 1.11   |
| 400PL/SS   | 103         | 3.42   |
| 433PBI     | 156         | 185.00 |
| 444PBI     | 156         | 175.00 |
| 444PI23    | 156         |        |
| 444PIH24   | 156         | 345.00 |
| 60FDIN     | 95          | 0.05   |
| 75A1/2     | 107,110     | 0.07   |
| 75A1/2/SA  | 110         | 0.07   |
| 75A1/4     | 107,110     | 0.08   |
| 75A1/4/SA  | 110         | 0.08   |
| 75A3/4     | 107,110     | 0.05   |
| 75A3/4FD   | 105         | 0.05   |
| 75A3/4/SA  | 110         | 0.05   |
| 75A3/8     | 107,110     | 0.07   |
| 75A3/8/SA  | 110         | 0.07   |
| 75B1/2     | 107,110     | 0.14   |
| 75B3/4     | 107,110     | 0.14   |
| 75BFD      | 105         | 0.14   |
| 75G        | 108         | 0.10   |
| 75GB       | 103,108     | 0.90   |
| 75GFD      | 105         |        |
| 75GV       | 103,108     | 0.10   |
| 75K        | 103,105,    | 0.05   |
|            | 108         |        |
| 75P        | 103,105,108 | 0.04   |
| 75PL       | 107         | 0.05   |
| 75PLFD     | 105         | 0.07   |
| A203V      | 177,181,183 |        |
| AF100      | 101         | 0.30   |
| AF100G     | 101         | 0.06   |
| AF100GV    | 101         | 0.06   |
| AF150      | 101         | 0.43   |
| AF150G     | 101         | 0.08   |
| AF150GV    | 101         | 0.08   |
| AF200      | 101         | 0.62   |
| AF200G     | 101         | 0.17   |
| AF200GV    | 101         | 0.17   |
| AF300      | 101         | 1.17   |
| AF300G     | 101         | 0.17   |
| AF300GV    | 101         | 0.17   |
| AF400      | 101         | 1.54   |
| AF400G     | 101         | 0.45   |
| AF400GV    | 101         | 0.45   |
| AFB100     | 101         | 0.28   |
| AFB150     | 101         | 0.47   |
| AFB200     | 101         | 0.69   |
| AFB300     | 101         | 1.38   |
| AFB400     | 101         | 1.95   |
| BC090      | 116         | 0.06   |
| BC114      | 116         | 0.05   |
| BEM3       | 163,187,193 |        |
| BEM5       | 163,187,193 |        |
| BEM51      | 163,187,193 |        |
| BEM5-182CZ | 153         |        |

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| BEM51-182CZ | 153     |        |
| BF075       | 96,194  | 0.82   |
| BF075BD     | 97,194  | 0.88   |
| BF075BDV    | 97,194  | 0.85   |
| BF075V      | 96,194  | 0.80   |
| BF100       | 96,194  | 0.82   |
| BF100BD     | 97,194  | 0.90   |
| BF100BDV    | 97,194  | 0.85   |
| BF100GE     | 96,97   | 0.07   |
| BF100GRE    | 97      | 0.01   |
| BF100GRV    | 97      |        |
| BF100GV     | 96,97   | 0.06   |
| BF100V      | 96,194  | 0.80   |
| BF107       | 137,153 |        |
| BF125       | 96,194  | 0.82   |
| BF125BD     | 97,194  | 0.82   |
| BF125BDV    | 97,194  | 0.85   |
| BF150       | 96,194  | 1.17   |
| BF150BD     | 97,194  | 1.25   |
| BF150BDV    | 97,194  | 1.20   |
| BF150V      | 96,194  | 1.20   |
| BF200       | 96,194  | 1.07   |
| BF200BD     | 97,194  | 1.20   |
| BF200BDV    | 97,194  | 1.20   |
| BF200GE     | 96,97   | 0.05   |
| BF200GFE    | 97      | 0.02   |
| BF200GFV    | 97      | 0.05   |
| BF200GV     | 96,97   | 0.05   |
| BF200V      | 96      | 1.07   |
| BF207       | 181,183 |        |
| BF220       | 96,194  | 1.45   |
| BF220BD     | 97,194  | 1.50   |
| BF220BDV    | 97,194  | 1.38   |
| BF220GE     | 96,97   | 0.02   |
| BF220GV     | 96,97   | 0.08   |
| BF220V      | 96,194  | 0.06   |
| BF300       | 96,194  | 2.13   |
| BF300BD     | 97,194  | 2.25   |
| BF300BDV    | 97,194  | 2.25   |
| BF300GE     | 96,97   |        |
| BF300GFE    | 97      |        |
| BF300GFV    | 97      |        |
| BF300GV     | 96,97   | 0.10   |
| BF300V      | 96,194  | 2.00   |
| CAP025      | 112     | 0.03   |
| CAP038      | 112     | 0.03   |
| CAP050      | 112     | 0.06   |
| CAP075      | 112     | 0.05   |
| CAP100      | 112     | 0.09   |
| CAP125      | 112     | 0.13   |
| CAP150      | 112     | 0.12   |
| CAP200      | 112     | 0.25   |
| CAP300      | 112     | 0.57   |
| CPLG025     | 111     | 0.03   |
| CPLG038     | 111     | 0.03   |

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| CPLG050    | 111        | 0.09   |
| CPLG075    | 111        | 0.11   |
| CPLG100    | 111        | 0.13   |
| CPLG125    | 111        | 0.19   |
| CPLG150    | 111        | 0.30   |
| CPLG200    | 111        | 0.34   |
| CPLG300    | 111        | 0.82   |
| CR025      | 112        | 0.04   |
| CR038      | 112        | 0.05   |
| CR050      | 112        | 0.13   |
| CR075      | 112        | 0.35   |
| CR100      | 112        | 0.27   |
| CR125      | 112        | 0.73   |
| CR150      | 112        | 0.74   |
| CR200      | 112        | 0.75   |
| CTS200AR   | 90         | 0.57   |
| CTS200D    | 90         | 0.70   |
| CV10175    | 145,147,   | 0.20   |
|            | 177,179,   |        |
|            | 181,183    |        |
| CV100MT    | 32         |        |
| CV300      | 2,32       | 0.95   |
| DB20153M   | 83         |        |
| DB20255    | 83         | 0.13   |
| DB20258    | 83,87,89   | 0.05   |
| DB20281    | 5,83,87,89 | 0.02   |
| DB20288    | 83         | 0.02   |
| DB20290    | 83         |        |
| DB20294    | 83         |        |
| DM100ABSS  | 84         | 3.50   |
| DM100ASS   | 84         | 3.50   |
| DM100CAP   | 85         | 0.20   |
| DM100DBSS  | 84         | 3.75   |
| DM100DBSSE | 84         | 3.75   |
| DM100DBSST | 84         | 3.75   |
| DM100DSS   | 84         | 3.75   |
| DM100DSSE  | 84         | 3.75   |
| DM100DSST  | 84         | 3.75   |
| DM100K     | 85         | 0.01   |
| DM100PL    | 85         | 0.25   |
| DM10151SS  | 85         |        |
| DM10153FSS | 85         | 0.20   |
| DM10153MSS | 85         | 0.25   |
| DM10154SS  | 85         |        |
| DM10155SS  | 85         |        |
| DM101SS    | 85         | 0.57   |
| DM10254FSS | 85         | 0.70   |
| DM10254MSS | 85         |        |
| DM10255SS  | 85         |        |
| DM10256BSS | 85         |        |
| DM10256SS  | 85         |        |
| DM10257BSS | 85         |        |
| DM10257SS  | 85         |        |
| DM10258    | 85         |        |
| DM10281    | 85         | 0.01   |

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| DM10288SS   | 85    | 0.02   |
| DM10289SS   | 85    | 0.02   |
| DM10294     | 85    | 0.02   |
| DM10295     | 85    | 0.02   |
| DM10296     | 85    |        |
| DM102SSE    | 85    | 0.50   |
| DM102SST    | 85    |        |
| DM102SSV    | 85    | 0.57   |
| DM10300     | 85    | 0.07   |
| DM150A      | 82    | 2.20   |
| DM150AB     | 82    | 2.20   |
| DM150ABSS   | 86    | 6.35   |
| DM150AD     | 82    | 6.35   |
| DM150AE     | 82    | 2.75   |
| DM150ASS    | 86    | 6.35   |
| DM150AT     | 82    | 2.20   |
| DM150D      | 82    | 2.75   |
| DM150DB     | 82    | 2.20   |
| DM150DBSS   | 86    | 6.90   |
| DM150DBSSE  | 86    | 6.90   |
| DM150DBSST  | 86    | 6.90   |
| DM150DE     | 82    | 2.82   |
| DM150DSS    | 86    | 6.90   |
| DM150DSSE   | 86    | 6.90   |
| DM150DSST   | 86    | 6.90   |
| DM150DT     | 82    |        |
| DM15151SS   | 87,89 |        |
| DM15153SS   | 87,89 |        |
| DM15154FSS  | 87,89 |        |
| DM15154MSS  | 87,89 |        |
| DM15154SS   | 87,89 |        |
| DM15155SS   | 87,89 |        |
| DM15204SS   | 87,89 |        |
| DM15255FSS  | 87,89 |        |
| DM15255MSS  | 87,89 |        |
| DM15256FBSS | 89    |        |
| DM15256FSS  | 89    |        |
| DM15256MBSS | 89    |        |
| DM15256MSS  | 89    |        |
| DM15257FBSS | 87    |        |
| DM15257FSS  | 87    |        |
| DM15257MBSS | 87    |        |
| DM15257MSS  | 87    |        |
| DM15288SS   | 87,89 |        |
| DM15289SS   | 87,89 | 2.25   |
| DM200A      | 82    | 2.20   |
| DM200AB     | 82    | 2.20   |
| DM200ABSS   | 88    | 6.20   |
| DM200ACAP   | 87,89 |        |
| DM200ACF    | 68    | 3.15   |
| DM200AD     | 82    | 6.20   |
| DM200AE     | 82    | 2.75   |
| DM200APL    | 87,89 | 0.50   |
| DM200ASS    | 88    | 6.20   |
| DM200AT     | 82    | 2.20   |

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| DM200CAP   | 83       | 0.50   |
| DM200D     | 82       | 2.75   |
| DM200DB    | 82       | 2.20   |
| DM200DBSS  | 88       | 6.90   |
| DM200DBSSE | 88       | 6.90   |
| DM200DBSST | 88       | 6.90   |
| DM200DCF   | 68       | 2.75   |
| DM200DE    | 82       | 3.00   |
| DM200DSS   | 88       | 6.90   |
| DM200DSSE  | 88       | 6.90   |
| DM200DSST  | 88       | 6.90   |
| DM200DT    | 82       |        |
| DM200KX    | 83,87,89 | 0.20   |
| DM200PL    | 83       | 0.43   |
| DM20153F   | 83       | 0.25   |
| DM20153M   | 83       | 0.32   |
| DM201SS    | 87,89    | 1.24   |
| DM20200A   | 83       | 0.25   |
| DM20200D   | 83       | 0.27   |
| DM20254    | 83       |        |
| DM20254F   | 83       | 0.50   |
| DM20254T   | 83       |        |
| DM20256    | 83       |        |
| DM20256B   | 83       |        |
| DM20257    | 83       |        |
| DM20257B   | 83       |        |
| DM20265    | 83       |        |
| DM20289    | 83       |        |
| DM20294A   | 83,87,89 | 0.03   |
| DM20295A   | 83,87,89 | 0.03   |
| DM20296    | 83,87,89 |        |
| DM202SSE   | 87,89    | 1.25   |
| DM202SST   | 87,89    | 1.30   |
| DM202SSV   | 87,89    | 1.32   |
| DM20300    | 83,87,89 | 0.13   |
| DM220ABSS  | 4        |        |
| DM220ASS   | 4        |        |
| DM220CAP   | 5        |        |
| DM220DBSS  | 4        | 7.00   |
| DM220DBSSE | 4        |        |
| DM220DSS   | 4        | 9.80   |
| DM220DSSE  | 4        |        |
| DM220PL    | 5        |        |
| DM221SS    | 5        | 0.45   |
| DM222SS    | 5        | 0.47   |
| DM25001    | 5        |        |
| DM25002    | 5        |        |
| DM25004    | 5        |        |
| DM25009    | 5        |        |
| DM25010    | 5        |        |
| DM25010A   | 5        |        |
| DM25018    | 5        |        |
| DM25018A   | 5        |        |
| DM25020    | 5        |        |
| DM25151SS  | 5        |        |

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| DM25153SSF  | 5         |        |
| DM25153SSM  | 5         |        |
| DM25154SS   | 5         |        |
| DM25155SS   | 5         |        |
| DM25204SS   | 5         |        |
| DM25254FSS  | 5         |        |
| DM25254MSS  | 5         |        |
| DM25255SSH  | 5         |        |
| DM25255SSHf | 5         |        |
| DM25256SS   | 5         |        |
| DM25258FV1  | 5         |        |
| DM25258FV2  | 5         |        |
| DM25588FSS  | 5         |        |
| DM25288MSS  | 5         |        |
| DM25289SS   | 5         |        |
| DM25294     | 5         |        |
| DMMT201A    | 82        | 2.50   |
| DMMT201AE   | 82        | 2.50   |
| DMMT20256   | 83        |        |
| DPCF100     | 81        | 0.50   |
| DPCM100     | 81        | 0.25   |
| DPCMT100    | 81        | 0.27   |
| EL025-90    | 113       | 0.03   |
| EL038-90    | 113       | 0.04   |
| EL050-90    | 113       | 0.07   |
| EL075-90    | 113       | 0.10   |
| EL100-45    | 113       | 0.14   |
| EL100-90    | 113       | 0.15   |
| EL125-90    | 113       | 0.23   |
| EL150-90    | 113       | 0.33   |
| EL200-90    | 113       | 0.44   |
| EL300-90    | 113       | 1.21   |
| EV075       | 34        | 4.94   |
| EV075BL     | 42        | 4.96   |
| EV075BLXR1  | 43        | 4.20   |
| EV075SL     | 42        | 4.94   |
| EV075SLXR1  | 43        | 4.20   |
| EV075XR1    | 35        |        |
| EV100BL     | 42        | 4.50   |
| EV100BLXR1  | 43        |        |
| EV100FP     | 34        | 4.94   |
| EV100SL     | 42        | 4.50   |
| EV100SLXR1  | 43        |        |
| EV100XR1    | 35        |        |
| EV10210     | 35,43,51, | 0.25   |
|             | 53,55     |        |
| EV125       | 34        | 4.88   |
| EV125BL     | 42        | 4.88   |
| EV125BLXR1  | 43        |        |
| EV125SL     | 42        | 6.48   |
| EV125SLXR1  | 43        |        |
| EV125XR1    | 35        |        |
| EV150       | 36        | 6.36   |
| EV150BL     | 44        | 6.36   |
| EV150BLXR1  | 45        |        |

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| EV150SL    | 44          | 6.48   |
| EV150SLXR1 | 45          |        |
| EV150XR1   | 37          |        |
| EV200      | 36          | 6.41   |
| EV200BL    | 44          | 6.41   |
| EV200BLXR1 | 45          |        |
| EV200SL    | 44          | 8.85   |
| EV200SLXR1 | 45          |        |
| EV200XR1   | 37          |        |
| EV20210    | 37,45,51,   | 0.30   |
|            | 53,55       |        |
| EV204BLFP  | 46          | 8.06   |
| EV204BLXR1 | 47          |        |
| EV204FP    | 38          | 8.85   |
| EV204SLFP  | 46          | 4.50   |
| EV204SLXR1 | 47          |        |
| EV204XR1   | 39          |        |
| EV25210    | 39,47,51,   | 0.45   |
|            | 53,55       |        |
| EV300FP    | 40          | 12.00  |
| EV3100     | 35,43,51,   | 2.50   |
|            | 53,55       |        |
| EV35210    | 51          |        |
| EV4100     | 37,39,45,   | 3.00   |
|            | 47,51,53,   |        |
|            | 55          |        |
| EVR075     | 34          | 4.50   |
| EVR100FP   | 34          | 4.50   |
| EVR125     | 34          | 6.48   |
| EVR150     | 36          | 6.48   |
| EVR200     | 36          | 5.75   |
| EVR204FP   | 38          |        |
| EVR3100    | 35,43       |        |
| EVR3102    | 35          |        |
| EVR4100    | 37,39,45,47 | 3.75   |
| EVR4102    | 37,39       |        |
| FC100      | 35,37,39,   | 0.25   |
|            | 43,45,47,   |        |
|            | 51,53,55,75 |        |
| FC200      | 75          | 0.23   |
| FC220      | 69,75       | 0.25   |
| FC220B     | 2           |        |
| FC220TB    | 2           |        |
| FC300      | 69,75       | 0.34   |
| FC300B     | 2           |        |
| FC300TB    | 2           | 0.60   |
| F-ISO11    | 92          | 2.20   |
| F-IS100    | 92          | 1.00   |
| FM100      | 70          | 2.75   |
| GHFT075A   | 117         | 0.06   |
| GHFT075D   | 117         | 0.17   |
| GHFT075MPT | 117         | 0.04   |
| GHMT075FPT | 117         | 0.04   |
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| GHMT075B   | 117         | 0.14   |

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| GHN075       | 117  | 0.60   |
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| HB025        | 114  | 0.01   |
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| HB025/050-90 | 114  | 0.02   |
| HB025-038    | 114  | 0.01   |
| HB025-038SS  | 114  | 0.07   |
| HB025-050    | 114  | 0.01   |
| HB025-050SS  | 114  | 0.07   |
| HB025-90     | 114  | 0.01   |
| HB025SS      | 114  | 0.04   |
| HB038        | 114  | 0.01   |
| HB038-025    | 114  | 0.02   |
| HB038-050    | 114  | 0.02   |
| HB038-050SS  | 114  | 0.10   |
| HB038-90     | 114  | 0.02   |
| HB038SS      | 114  | 0.09   |
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| HB050/075-90 | 114  | 0.04   |
| HB050-038    | 114  | 0.02   |
| HB050-058SS  | 114  | 0.14   |
| HB050-075    | 114  | 0.03   |
| HB050-075SS  | 114  | 0.20   |
| HB050-90     | 114  | 0.03   |
| HB050SS      | 114  | 0.13   |
| HB075        | 114  | 0.04   |
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| HB075/100-90 | 114  | 0.05   |
| HB075-038    | 114  | 0.03   |
| HB075-050    | 114  | 0.03   |
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| HB075-100SS  | 114  | 0.25   |
| HB075-90     | 114  | 0.05   |
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| HB100/125-90 | 114  | 0.10   |
| HB100-075    | 114  | 0.06   |
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| HB100-125    | 114  | 0.08   |
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| HB100SS      | 114  | 0.30   |
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| HB125-100    | 114  | 0.09   |
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| HB300          | 114         | 0.70   |
| HB300-90       | 114         | 1.05   |
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| HY1013         | 139,143,165 | 4.50   |
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| LS100-B   | 125    | 0.50   |
| LS100B/C1 | 125    | 0.88   |
| LS100-C1  | 77,125 | 0.88   |
| LS100-G   | 77,125 | 0.02   |
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| LS120     | 77,125 | 0.07   |
| LS125-20  | 124    | 0.86   |
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| LS300EC    | 79,128     | 0.64   |
| LS304      | 79,128     | 1.05   |
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| M200BRB45    | 75          | 0.26   |
| M200BRB90    | 75          | 0.34   |
| M200BSP      | 74          | 0.26   |
| M200CPG      | 73          | 0.43   |
| M200CPG45    | 73          | 0.31   |
| M200CPG90    | 73          | 0.62   |
| M200CPG90SH  | 73          |        |
| M200CR       | 75          | 0.69   |
| M200FPT      | 74          | 0.29   |
| M200MPT      | 74          | 0.26   |
| M200MPTSS    | 75          | 0.81   |
| M200PLG      | 74          | 0.12   |
| M200PLG018   | 74          | 0.08   |
| M200PLG025   | 74          | 0.09   |
| M200PLG038   | 74          | 0.09   |
| M200PLG050   | 74          | 0.09   |
| M200PLG075   | 74          | 0.10   |
| M200PLG100   | 74          | 0.11   |
| M200SWFSS    | 72          | 0.70   |
| M200SWP90    | 71          | 0.35   |
| M200TEE      | 73          | 0.60   |
| M201G        | 75          | 0.05   |
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| M220150BRB   | 74    | 0.16   |
| M220150BRB90 | 75    | 0.21   |
| M220150MPTSS | 75    | 0.65   |
| M220200CPG   | 73    | 0.19   |
| M220200HBT   | 75    |        |
| M220200SWP90 | 71    | 0.35   |
| M220200TEE   | 73    |        |
| M220375SWFSS | 72    |        |
| M220A        | 74    | 0.20   |
| M220ASWP90   | 71    | 0.40   |
| M220BRB      | 74    | 0.19   |
| M220BRB45    | 75    | 0.22   |
| M220BRB90    | 75    | 0.30   |
| M220BRBSWP90 | 71    | 0.40   |
| M220BSP      | 74    | 0.20   |
| M220CPG      | 73    | 0.21   |
| M220CPG6     | 69,73 | 0.27   |
| M220CPG45    | 69,73 | 0.24   |
| M220CPG90    | 73    | 0.34   |
| M220CR       | 75    | 0.58   |
| M220CRSS     | 75    | 4.38   |
| M220FPT      | 74    | 0.26   |
| M220D        | 74    | 0.40   |
| M220MPT      | 74    | 0.21   |
| M220MPTSS    | 75    | 0.62   |
| M220MPTSWP90 | 71    | 0.30   |
| M220P6PRO    | 7     |        |
| M220PH5      | 7     |        |
| M220PLG      | 74    | 0.12   |
| M220PLG075   | 74    | 0.11   |
| M220SWFSS    | 72    | 0.59   |
| M220SWP90    | 71    | 0.20   |
| M220SWP90SS  | ii    |        |
| M220TEE      | 73    | 0.52   |
| M220Y45      | 69,73 | 1.32   |
| M220YG45     | 69,73 | 1.34   |
| M221G        | 75    | 0.03   |
| M221GSA      | 72    | 0.25   |
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| M300200CPG   | 73    | 0.25   |
| M300220BRB   | 74    | 0.27   |
| M300220BRB90 | 75    | 0.40   |
| M300220CPG   | 69,73 | 0.24   |
| M300220MPTSS | 75    | 1.25   |
| M300300HBT   | 75    |        |
| M300375SWFSS | 72    |        |
| M300A        | 74    | 0.35   |
| M300ASWP90   | 71    | 0.80   |

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| M300BRB       | 74     | 0.49   |
| M300BRB45     | 75     | 0.51   |
| M300BRB90     | 75     | 0.78   |
| M300BSP       | 74     | 0.41   |
| M300CPG       | 73     | 0.41   |
| M300CPG45     | 69,73  | 0.49   |
| M300CPG7      | 69,73  | 0.57   |
| M300CPG90     | 73     | 0.75   |
| M300CR        | 75     | 1.18   |
| M300FPT       | 74     | 0.50   |
| M300MPT       | 74     | 0.44   |
| M300MPTSS     | 75     | 1.85   |
| M300MPTSWP90  | 71     | 0.63   |
| M300MPTSWPG90 | 71     | 0.68   |
| M300PLG       | 74     | 0.25   |
| M300PLG075    | 74     | 0.23   |
| M300PLG100    | 74     | 0.20   |
| M300SWFSS     | 72     | 1.50   |
| M300SWP90     | 71     | 0.70   |
| M300SWPG90    | 71     | 0.75   |
| M300TEE       | 73     | 1.15   |
| M300Y45       | 69,73  | 3.38   |
| M300YG45      | 69,73  | 3.13   |
| M301G         | 75     |        |
| M301GSA       | 72     | 0.50   |
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| MBF100        | 80,194 | 0.90   |
| MBF100BD      | 80,194 | 1.00   |
| MBF100BDV     | 80,194 | 1.00   |
| MBF100V       | 80,194 | 1.00   |
| MBF150200BD   | 80     | 1.39   |
| MBF150200BDV  | 80     | 1.39   |
| MBF200        | 80,194 | 1.37   |
| MBF200BD      | 80,194 | 1.39   |
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| MBF200V       | 80,194 | 1.37   |
| MBF220        | 80,194 | 1.62   |
| MBF220BD      | 80,194 | 1.62   |
| MBF220BDV     | 80,194 | 1.62   |
| MBF220V       | 80     | 1.62   |
| MBF300        | 80,194 | 2.25   |
| MBF300BD      | 80,194 | 2.32   |
| MBF300BDV     | 80,194 | 2.40   |
| MBF300V       | 80,194 | 2.25   |
| MBP200        | 92     | 0.03   |
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| MEVR100CF   | 50          | 4.45   |
| MEVR100SLCF | 52          | 4.75   |
| MEVR200CF   | 50          | 6.48   |
| MEVR200SLCF | 52          |        |
| MEVR220CF   | 50          | 8.06   |
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| MTF220BD    | 80          | 0.75   |
| MTF300      | 80          | 2.00   |
| MTF300BD    | 80          | 2.15   |
| MV100BL     | 66          | 1.20   |
| MV100CF     | 56          | 0.75   |
| MV100SL     | 66          | 1.13   |
| MV10354B    | 67          |        |
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| MV200CF     | 56          | 1.92   |
| MV200SL     | 66          | 2.00   |
| MV20354B    | 67          |        |
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| MV220CF     | 56          | 3..25  |
| MV220SL     | 66          | 2.75   |
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| MV300       | 56          | 3.90   |
| MV300BL     | 66          | 6.60   |
| MV300CF     | 56          | 6.00   |
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| TEG100   | 112  | 0.21   |
| TF038SS  | 98   | 0.25   |
| TF050    | 98   | 0.25   |
| TF050V   | 98   | 0.22   |
| TF050SS  | 98   |        |
| TF073    | 98   | 0.07   |
| TF075SS  | 98   | 1.15   |
| TF075    | 98   | 0.20   |
| TF075V   | 98   | 0.22   |
| TF100    | 98   | 0.35   |
| TF100AV  | 99   | 0.32   |
| TF100SS  | 98   | 2.85   |
| TF100V   | 98   | 0.40   |
| TF103    | 98   | 0.09   |
| TF125    | 98   | 0.35   |
| TF125AV  | 99   | 0.68   |
| TF125SS  | 98   | 1.92   |
| TF125V   | 98   | 0.66   |
| TF138GV  | 98   |        |
| TF150    | 98   | 0.63   |
| TF150AV  | 99   | 0.68   |
| TF150SS  | 98   | 4.38   |
| TF150V   | 98   | 0.55   |
| TF153    | 98   |        |
| TF200    | 98   | 0.55   |
| TF200AV  | 99   | 0.60   |
| TF200BSP | 98   |        |
| TF200SS  | 98   | 3.60   |
| TF200V   | 98   | 0.56   |
| TF220    | 98   | 0.82   |
| TF220G   | 98   | 0.03   |
| TF220GV  | 98   | 0.05   |
| TF220SS  | 98   | 5.27   |
| TF220V   | 98   | 0.82   |
| TF223    | 98   | 0.20   |
| TF300    | 98   | 2.00   |
| TF300BSP | 98   |        |
| TF300G   | 98   | 0.07   |
| TF300GV  | 98   | 0.10   |
| TF300SS  | 98   | 7.90   |
| TF300V   | 98   | 2.00   |
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| TF400    | 98   | 4.50   |

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| TL101     | 100      | 1.70   |
| TL600     | 94       | 0.45   |
| TL600C    | 94       | 0.50   |
| TL650E    | 94       | 0.50   |
| TL650S    | 94       | 0.50   |
| TL651E    | 94       | 0.57   |
| TL651S    | 94       | 0.70   |
| TL652E    | 94       | 0.50   |
| TL652EPA  | 6,94     | 0.65   |
| TL652S    | 94       | 0.63   |
| TL6531    | 94       | 0.07   |
| TLA10     | 100      | 2.58   |
| TLV1      | 100      | 0.04   |
| TLV10R    | 100      | 1.50   |
| TLV2      | 100      | 0.02   |
| TLVA10    | 100      | 2.25   |
| TM075/050 | 115      | 0.28   |
| TR10      | 100      | 0.92   |
| TR10R1    | 100      | 0.81   |
| UB100     | 73       | 0.25   |
| UB202     | 73       | 0.26   |
| UB220     | 73       | 0.32   |
| UV10150   | 29       | 0.04   |
| UV10151   | 29       | 0.01   |
| UV10153   | 29       | 0.01   |
| UV10163   | 29       | 0.01   |
| UV10254   | 29       | 0.16   |
| UV10255   | 29       | 0.02   |
| UV10256   | 29       | 0.02   |
| UV10258   | 29       | 0.01   |
| UV10264   | 29       | 0.01   |
| UV10264V  | 119      | 0.02   |
| UV15163   | 77,121,  | 0.01   |
|           | 125,131, |        |
|           | 135,133, |        |
|           | 139,145, |        |
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|           | 181,183, |        |
|           | 185,187, |        |
|           | 189,191, |        |
|           | 192      |        |
| UV15163V  | 121,125, | 0.01   |
|           | 131,133, |        |
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| UV204FPFD | 92       | 1.50   |
| UVA100FP  | 28       | 0.54   |

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| V07017  | 13,29       |        |
| V07018  | 13,29,131   | 0.02   |
|         | 133,135,    |        |
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| V07019  | 13,29,131   | 0.03   |
|         | 133,135,    |        |
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| V07021A | 13,29,57,67 | 0.01   |
| V07060  | 13,29       | 0.01   |
| V07151A | 13,29       | 0.02   |
| V07155  | 13,29       | 0.04   |
| V07159  | 13,29       | 0.01   |
| V07163  | 13,29       | 0.01   |
| V07200  | 13,29       | 0.07   |
| V07254  | 13,29       | 0.13   |
| V07256  | 13,29       | 0.07   |
| V07257  | 13          | 0.07   |
| V07258A | 13,29       | 0.02   |
| V07264  | 13,29       | 0.01   |
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| V07357  | 27          |        |
| V075    | 12          | 0.75   |
| V075BL  | 26          | 1.35   |
| V075SL  | 26          | 1.35   |
| V100    | 12          | 0.70   |
| V10020A | 13,29,57,67 | 0.02   |
| V10060  | 13,27,57,67 | 0.01   |
| V100BL  | 26          | 1.25   |
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| V100SL  | 26          | 1.31   |
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|         | 67,177,183  |        |
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| V10153138   | 12          | 0.14   |
| V10153138BL | 12          | 0.14   |
| V10153A     | 13,27,29,57 | 0.06   |
| V10155      | 15,57       | 0.07   |
| V10159      | 13,27,57,67 | 0.01   |
| V10161      | 29          | 0.18   |
| V10163      | 13,27,57,67 | 0.01   |
| V10200      | 13,57       | 0.12   |
| V10254      | 13,57       | 0.16   |
| V10256      | 13          | 0.19   |
| V10257      | 13,27       | 0.22   |
| V10258      | 27          | 0.03   |
| V10258A     | 13,57       | 0.04   |
| V10264      | 13,27,57    | 0.02   |
| V10270      | 12,13       | 0.10   |
| V10271      | 12,13       | 0.13   |
| V10278      | 57          | 0.25   |
| V10353TB    | 27,67       | 0.09   |
| V10353TS    | 27,67       | 0.07   |
| V10354B     | 27          | 0.25   |
| V10354S     | 27          | 0.25   |
| V10355B     | 27,67       | 0.07   |
| V10355S     | 27,67       | 0.06   |
| V125        | 12          | 1.25   |
| V125BL      | 26          | 2.25   |
| V125FP      | 12          | 1.91   |
| V125SL      | 26          | 2.07   |
| V150        | 12          | 1.87   |
| V150BL      | 26          | 2.00   |
| V150SL      | 26          | 2.00   |
| V200        | 12          | 1.88   |
| V20010      | 17          |        |
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|             | 63,65,83    |        |
| V20011SS    | 155,157     | 0.04   |
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| V20060      | 13,19,21,   | 0.01   |
|             | 27,29,57,   |        |
|             | 59,61,67,83 |        |
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| V20153SH    | 67          | 0.20   |
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| V20207      | 85,87,89,   | 0.06   |
|             | 95,105,107  |        |
| V20207A     | 83          | 0.02   |
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| V20255A     | 13,29,57    | 0.16   |
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| V20258      | 87,89       | 0.05   |
| V20258A     | 13,29,57,83 | 0.04   |
| V20261      | 29          | 0.70   |
| V20262      | 29          | 0.75   |
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| V20267      | 13,27       | 0.30   |



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| V20353TS    | 27          |        |
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| V20355B     | 27,67       | 0.20   |
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| V20394      | 67          |        |
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|             | 29,39,47,51 |        |
|             | 53,55,66,67 |        |
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|             | 25,29,57,   |        |
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|             | 27,29,41,   |        |
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|             | 29,57,63,   |        |
|             | 66,67       |        |
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|             | 29,57,66,67 |        |
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|             | 25,57,63    |        |
| V25153SH    | 15,17,27,67 |        |
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| V25160      | 15,17,23,   | 0.02   |
|             | 25,27,29,   |        |
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|             | 65,66,67    |        |
| V25163      | 15,17,23,   | 0.01   |
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| V25200      | 15,29,57    | 0.43   |
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| V25258      | 27,67       | 0.03   |
| V25258A     | 15,17,29,57 | 0.05   |
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| V25355B   | 27,67       | 0.32   |
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| V30258A   | 15,57       | 0.01   |
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| V30265    | 15,23,57,63 | 0.01   |
| V35017    | 15,41,51,57 | 0.63   |
| V35018    | 41          |        |
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| V40255    | 15          | 1.80   |
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| VA100     | 28          | 0.80   |
| VA150     | 28          | 2.58   |
| VA200     | 28          | 0.25   |
| VA200/150 | 28          | 2.50   |
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In 1959 Jack Canine's passion for solving problems with high quality products began in the garage of his Crawfordsville, Indiana home. He soon moved out of his garage and established Terra-Knife, a small supply company that provided fertilizer knives to farmers throughout the United States.

As the agricultural industry continued to grow and the needs for new, innovative products were on the rise, Mr. Canine and his employees met this demand by introducing additional products to the Terra-Knife line, including ball valves and cam lever couplings. Shortly after, the company was renamed Terra-Products to better represent its broad product offerings.

In keeping with Mr. Canine's entrepreneurial spirit, the engineering and manufacturing of new products continued throughout the years, leading to the service of new markets, including many industrial applications. Mr. Canine's personal hobby and love for the banjo, and the shape of the handle of one of the company's key products, the ball valve, led to the renaming of Terra-Products to Banjo Corporation.

For fifty years, Banjo Corporation has continued to grow and build upon Mr. Canine's vision, commitment to innovation, quality and drive for excellence. Today, Banjo Corporation is a leader in the manufacturing of liquid handling products and continues to excel by listening to the customer, focusing on their needs and providing a wide range of high quality products to meet the demands of a varied customer base.



Jack was inducted into the National Four-String Banjo Hall of Fame in 2001 (top photo). Jack and his collection at home in 1987, prior to sending several of his 56 banjos to the National Four-String Banjo Hall of Fame Museum (above). For full details on the museum, please go to [www.banjomuseum.org](http://www.banjomuseum.org)

*"If I can place them [banjos] in a museum where more people can see them and enjoy them, I think that's good for our national heritage."*

*Jack Canine*







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