

**LOC-LINE®**  
THE ORIGINAL MODULAR HOSE SYSTEM.



**NEW  
PRODUCTS**  
PAGES 9 & 11

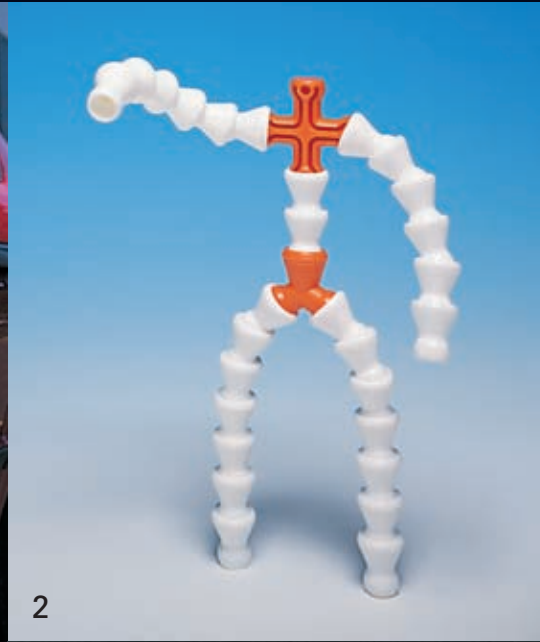


# LOC-LINE® FLEXES TO MANY TASKS

1. Paintless dent removal is made easier using Loc-Line® 3/4" hose and standard shield parts.
2. Loc-Line® in all sizes is used as armatures for dolls and stuffed animals.
3. Loc-Line® 1/2" System directs chilled air through a Vortec cold gun, one of the many air applications that use Loc-Line®.
4. The Flexible Shower Massage by Water Pik combines a patented Loc-Line® design with the Shower Massage to position the head to any height.
5. Fadal Engineering uses Loc-Line® in a traditional flood coolant application.
6. A Loc-Line® Flare Nozzle directs just the right amount of coolant to the cutter.
7. Trico uses Loc-Line® 1/4" System to enhance mist delivery for the Micro Drop® Dispenser.
8. Hass Automation and Loc-Line® combine for accurate aim coolant flow.
9. The Smart Washer® manufactured by ChemFree uses the Loc-Line® 1/2" System to direct environmentally safe fluids to clean parts in the tub.
10. Exair's Cold Gun and Loc-Line® cools the grinder and tool without using fluids.
11. Loc-Line® Vacuum Hose and a standard shop vacuum help keep workshops cleaner.
12. The Snake Light™ Flexible Flashlight by Black and Decker utilizes a patented Loc-Line® design that resists popping apart.
13. Growing coral in an aquarium requires turbulent water motion. Loc-Line® makes it possible to direct the flow where it is needed and around sensitive corals.
14. The BlueFin V900 underwater camera by Light & Motion uses Loc-Line® to hold and aim the lights.
15. Loc-Line® Swivel Nozzle distributes an even flow of coolant for a surface grinding operation.



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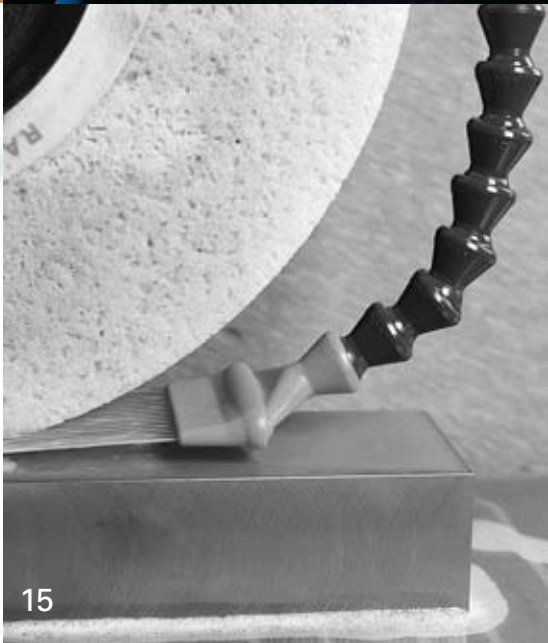


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# THE LOC-LINE® SYSTEM

**THE BASIC SHAPE OF THIS BALL AND SOCKET DESIGN IS THE KEY TO THE LOC-LINE® SYSTEM.**



The tapered skirt design of Loc-Line® allows full articulation of the ball without cutting off any flow as do round skirt designs.

**1/2" Hose**



**1/4" Hose**



**3/4" Hose**



**2 1/2" Hose**



#### FOUR HOSE DIAMETERS

Loc-Line® is available in four different sizes with inside diameters measuring from 1/4" to 2 1/2".

- Loc-Line's unique ball and socket design is fully hand adjustable in both position and length.

- Bending doesn't decrease the inside diameter and it won't kink or fatigue like copper tubing.

- Unlike metal hoses, Loc-Line® won't damage machine tool cutters if contact occurs.

- Loc-Line® is electrically non-conductive. It is ideal for use as an EDM flushing hose.

- Loc-Line® has no internal positioning rod that can break or restrict fluid flow.

- Repeated positioning is easy and it will stay in position without any springback. Creep due to machine vibration is eliminated.

- Loc-Line® is manufactured in a premium grade acetal copolymer material which is chemically resistant to petroleum products, coolants, and most common chemicals. Selected parts are also available in an acid resistant polyester.

- Loc-Line® continues the original adjustable hose concept by offering four hose diameters, manifolds, valves, and a large choice of nozzles and fittings. Our Modular Vacuum Hose System continues to build on our original concept.

- Loc-Line® is designed for low pressure applications. Maximum pressures for the hose systems vary with the length of the hose, the diameter of the selected nozzle, and the bending angles. The following specifications are guidelines for all Loc-Line® coolant hose systems.



# PURCHASE LOC-LINE® IN BULK PACKAGING.

## LINE PRESSURE & FLOW RATES:

- 1/4" System 30 – 50 PSI 250 Gal / Hour
- 1/2" System 20 – 30 PSI 478 Gal / Hour
- 3/4" System 10 – 20 PSI 1,140 Gal / Hour

## TEMPERATURE SPECIFICATIONS:

- Melting point: 329° F
- Maximum operating temperature: 170° F

*Please note that all applications have variables and conditions that will affect the maximum hose pressures. Testing is always recommended whenever possible.*



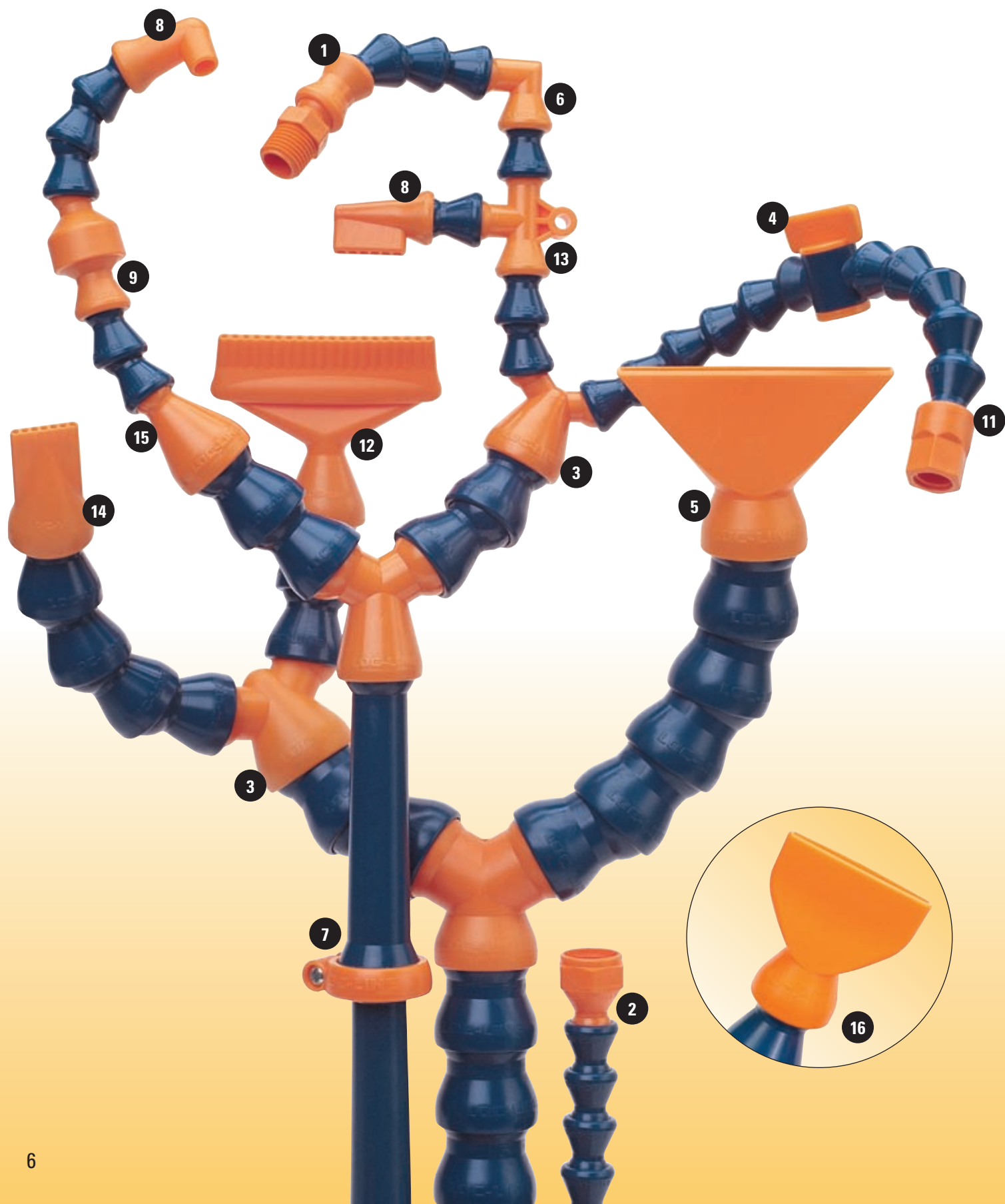
## LOC-LINE® BULK PACKS

Loc-Line® is offered in bulk packaging to simplify your purchasing requirements. Whatever your demands, there is a package to fit your needs. Most bulk packed products, those with the second digit “9” part number (i.e. 49420), are available in black, gray and the original blue and orange.



Common Compatability with Acetal Products Loc-Line® Blue & Orange Colors		
	Yes	Acetone
No		Acids
	Yes	Alcohol, Ethyl
No		Ammonium Hydroxide, (Strong)
No		Bases, Strong
	Yes	Commercial Dish Detergents
	Yes	Gasoline
	Yes	Greases
No		Hypochlorite Ion Solutions
	Yes	Lacquer Solvents
	Yes	Oils
	Yes	Sodium Hydroxide
No		Sodium Hypochlorite

# CUSTOMIZED SOLUTIONS



# THE LOC-LINE® SYSTEM OFFERS ENDLESS COMBINATIONS FOR OUTSTANDING RESULTS.

## 1. DOUBLE SOCKETS

Allows user to put a Loc-Line® connector on both ends • Can be used to connect coolant fed tooling • Allows attachment of a non-Loc-Line® nozzle

## 2. FLARE NUT FITTINGS

Allows users to replace flared copper tube fittings and copper tube with Loc-Line® fittings and hose. Loc-Line® won't fatigue like copper. • A popular fitting for air applications in the printing industry •  $\frac{3}{8}$ " Flare nuts fit to  $\frac{3}{8}$ " - 18 threads •  $\frac{1}{4}$ " Flare nuts fit to  $\frac{3}{16}$ " - 20 threads

## 3. Y FITTINGS & REDUCERS

Multiple nozzles can be attached to one supply line • Reducing Y's connect a larger supply line to two smaller hose diameters

## 4. VALVES

Regulate coolant or air flow to your work area •  $\frac{1}{4}$  turn of handle opens or closes the valve • Light-weight and compact for in-line use • Body and stem material is acetal copolymer • Stem seals are nitrile (Buna N)

## 5. FLARE NOZZLES

Spreads coolant or air over a wide area without restricting the flow volume

## 6. ELBOW FITTINGS

Attaches directly to NPT fittings where tight turns are needed • Allows 90° hose turns

## 7. EXTENDED ELEMENTS & ELEMENT CLAMPS

Element Clamps tighten onto any standard Loc-Line® element in the same size system • Extended Elements with Clamps reduce dynamic motion at higher pressures • Extended Elements make it easier to run longer lengths of hose

## 8. 90 DEGREE NOZZLES

90 Degree Nozzles allow coolant flow close to the tool • 90 Degree Nozzles make tight turns behind the cutter • Reduce view obstructions in front of the tool • 90 Degree Nozzles fit directly on NPT connectors in short tight spaces • Spray Bar Nozzles distribute coolant over a wide area with even pressure

## 9. IN-LINE CHECK VALVES

Maintain fluid in the hose for the next cutting operation, thus reducing dry cutting • Helps eliminate fluid dripping from the hose after the pump is shut off • Designed for short cycles between pallet changes or tool changes.

## 10. CIRCLE FLOW NOZZLE KITS & SIDE FLOW NOZZLES

Allows the user to completely encircle the cutter • Side Flow Nozzles can be added or subtracted to accommodate different size cutters • Side Flow Nozzles can be arranged in a long straight manifold

## 11. $\frac{1}{4}$ " SOCKET X $\frac{1}{8}$ " FNPT

Allows users to screw on a specialty nozzle



## 12. SWIVEL NOZZLES

Adjustable spray head features 40° range of motion over flared base • Evenly spaced holes for even distribution of liquids or air • Offset head design directs air or fluid parallel to the cutting surface

## 13. T FITTINGS

Connects 2 hoses from one source in a 90° configuration • Adds an additional outlet to Modular Manifolds • Boss allows easy mounting for additional hose support

## 14. FLAT NOZZLES

Provides a thin flat pattern for precise directional control of air or fluids • Available with slots or holes

## 15. HOSE ADAPTERS









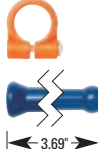




Allows larger ID hoses to be reduced to smaller ID systems. •  $\frac{3}{4}$ " to  $\frac{1}{2}$ " or  $\frac{1}{2}$ " to  $\frac{1}{4}$ "

## 16. STRAIGHT FLOW NOZZLES

Nozzles designed to optimize an even flow pattern over a wide area while reducing build-up at the nozzle edges.

# 1/4" SYSTEM

1/4" INSIDE DIAMETER

Part No.	Description	Part No.	Description	Part No.	Description
<b>40413</b>	<b>1/4" Hose Kit 13" Length with Fittings</b>  2 - Segments, 5 3/4" Long 1/4", 1/8", 1/16" Nozzles 1/4" & 1/8" NPT Connectors		<b>1/4" Segment Pack</b>  <b>41401</b> 2 - Segments, 5 3/4" Long <b>49420</b> Bulk 25 ft, 55 Segments <b>49421</b> 1/4" 50 Foot Coil • 1 Segment = 10 Elements		<b>1/8" NPT Connector</b>  <b>41405</b> pack of 4 <b>49425</b> pack of 50
<b>40452</b>	<b>1/4" Flared Tubing Replacement Pack</b>  8 - Segments, 5 3/4" Long 1 - 1" Flare Nozzle Includes 4 each of: 3/8" Flare Nut Adapters 1/8" & 1/4" Round Nozzles	 3.69"	<b>1/4" Extended Element</b>  <b>41476</b> pack of 4 <b>49445</b> pack of 20		<b>1/8" BSPT* Connector</b>  <b>41417</b> pack of 4 <b>49437</b> pack of 50 * British Standard Pipe Thread
			<b>1/4" Element Clamp</b>  <b>41477</b> pack of 4 (w/ screws) <b>49446</b> pack of 20 (w/ screws)		<b>1/4" NPT Connector</b>  <b>41406</b> pack of 4 <b>49426</b> pack of 50
			<b>1/16" Round Nozzle</b>  <b>41402</b> pack of 4 <b>49422</b> pack of 50		<b>1/4" BSPT* Connector</b>  <b>41418</b> pack of 4 <b>49438</b> pack of 50 * British Standard Pipe Thread
			<b>1/8" Round Nozzle</b>  <b>41403</b> pack of 4 <b>49423</b> pack of 50		<b>1/4" Y Fitting</b>  <b>41408</b> pack of 2 <b>49428</b> pack of 20
			<b>1/4" Round Nozzle</b>  <b>41404</b> pack of 4 <b>49424</b> pack of 50		<b>1/4" Double Socket</b>  <b>41409</b> pack of 4 <b>49429</b> pack of 20
	<b>41474</b> <b>1/4" 90° Nozzle Kit</b>  1 Each: 1/16", 1/8", 1/4" & 1/4" Spray Bar Nozzles		<b>1/16" 90° Nozzle</b>  <b>41470</b> pack of 4 <b>49439</b> pack of 20		<b>1/4" Socket to 1/8" FNPT</b>  <b>41411</b> pack of 4 <b>49431</b> pack of 20
 3.69"	<b>41475</b> <b>1/4" Extended Element Kit with Element Clamps</b>  Includes 4 each of: 1/4" Extended Elements 1/4" Element Clamps		<b>1/8" 90° Nozzle</b>  <b>41471</b> pack of 4 <b>49440</b> pack of 20		<b>3/8" SAE Flare Nut Adapter</b>  <b>41412</b> pack of 4 <b>49432</b> pack of 20 • 5/8 - 18 Thread
	<b>41479</b> <b>1/4" Circle Flow Nozzle Kit</b>  Assembled with 15 Side Flow Nozzles 1/4" & 1 End Cap 1/4" • Overall Length = 17.56"		<b>1/4" 90° Nozzle</b>  <b>41472</b> pack of 4 <b>49441</b> pack of 20		<b>1/4" SAE Flare Nut Adapter</b>  <b>41414</b> pack of 4 <b>49434</b> pack of 20 • 7/16 - 20 Thread
			<b>1/4" 90° Spray Bar Nozzle</b>  <b>41473</b> pack of 2 <b>49442</b> pack of 20		<b>1/4" Elbow Fitting</b>  <b>41415</b> pack of 2 <b>49435</b> pack of 20
			<b>1" Flare Nozzle</b>  <b>41407</b> pack of 2 <b>49427</b> pack of 20		



Part No.	Description	Part No.	Description	Part No.	Description
	<b>1/4" T Fitting</b>		<b>In-Line Check Valve</b>		<b>40472 1/4" Ext. Elbow Kit</b>
<b>41416</b> pack of 2		<b>21191</b> pack of 2			4 Extended Elbows
<b>49436</b> pack of 20		<b>29451</b> pack of 10			4 Element Clamps
	<b>1/4" Side Flow Nozzle</b>		<b>1/4" Flat Slot 40 Nozzle</b>		<b>40473 1/4" Mixed Element Kit</b>
<b>41478</b> pack of 4		<b>41483</b> pack of 4			2 Extended Elbows
<b>49443</b> pack of 20		<b>49451</b> pack of 20	• .040" Slot height		2 Extended Elements
	<b>1/4" End Cap</b>		<b>1/4" Flat Slot 60 Nozzle</b>		<b>40474 1/4" Extended Elbows with Clamps</b>
<b>41480</b> pack of 4		<b>41484</b> pack of 4			4 Extended Elbows
<b>49447</b> pack of 20		<b>49452</b> pack of 20	• .060" Slot height		4 Element Clamps
	<b>1/4" Swivel Nozzle 40</b>		<b>1/4" Flat 5 Hole Nozzle</b>		<b>41491 1/4" Extended Elbows</b>
<b>41481</b> pack of 2		<b>41485</b> pack of 4		<b>49457</b> pack of 20	
<b>49449</b> pack of 20	• .040" Hole diameter	<b>49453</b> pack of 20	• .060" Hole diameter		
	<b>1/4" Swivel Nozzle 60</b>		<b>1/4" Flat 7 Hole Nozzle</b>		<b>1/4" Hose Assembly Pliers</b>
<b>41482</b> pack of 2		<b>41486</b> pack of 4		<b>78001</b> one 1/4" pliers	
<b>49450</b> pack of 20	• .060" Hole diameter	<b>49454</b> pack of 20	• .040" Hole diameter	<b>78003</b> 1/4" & 1/2" Pliers Set	
	<b>2 1/2" Swivel Nozzle 75</b>		<b>41487 1/4" Flat Nozzle Assortment Pack</b>		• 1/4" Assembly Pliers will not assemble part numbers 41411 and 49431.
<b>41488</b> pack of 2			Includes one each of:		
<b>49455</b> pack of 20	• .075" Hole diameter		Flat Slot 40 Nozzle		
	<b>1" Straight Flow Nozzle</b>		Flat Slot 60 Nozzle		
<b>41489</b> pack of 2			Flat 5 Hole Nozzle		
<b>49456</b> pack of 20			Flat 7 Hole Nozzle		
	<b>1/4" Male NPT Valve*</b>		<b>41490 1/4" Nozzle-Rama Pack</b>		
<b>21192</b> pack of 2			One of each nozzle		
<b>29452</b> pack of 10			for 1/4" hose system.		
	<b>1/4" Female NPT Valve*</b>		(16 nozzles)		
<b>21193</b> pack of 2					
<b>29453</b> pack of 10					
	<b>1/4" In-Line Valve*</b>				
<b>21194</b> pack of 2					
<b>29454</b> pack of 10					

- \* 1/4" Valve Specifications**
- Full 1/4" inside diameter
  - Maximum Working Pressures:
    - 1/4" Hose: 30 PSI
    - 1/4" In-Line Valve: 30 PSI
    - 1/4" Male and Female NPT Valves: 100 PSI
    - (1/4" Hose limits most applications to 30 PSI)
  - Body and stem material: Acetal Copolymer
  - Stem seal: Nitrile (Buna N)
  - 1/4 turn shut off

**ASSEMBLY TIP:**  
 Assembly can be made easier by first rubbing the Loc-Line ball with your fingers and then using the pliers.

**DIMENSIONAL INFORMATION  
 FOR THE 1/4" SYSTEM ON PAGE 17**

# 1/2" SYSTEM

1/2" INSIDE DIAMETER

Part No. Description

## 50813 1/2" Hose Kit

13" Length with Fittings:  
2 - Segments, 5 1/2" Long  
1/4", 3/8", 1/2" Nozzles  
3/8" & 1/2" NPT  
Connectors

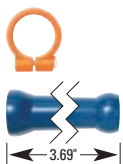


## 51832 1/2" 90° Nozzle Kit

1 Each: 1/4", 3/8", 1/2"  
& Spray Bar Nozzles



## 51835 1/2" Extended Element Kit with Element Clamps



Includes 4 each of:  
1/2" Extended Elements  
1/2" Element Clamps

## 51837 1/2" Circle Flow Nozzle Kit



Assembled with 15 Side  
Flow Nozzles 1/2" &  
1 End Cap 1/2"  
• Overall Length = 24.375"

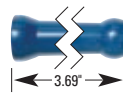
## 1/2" Segment Pack



51801 2 - Segments, 5 1/2" Long  
59860 Bulk 25 ft., 59 Segm'ts  
59861 1/2" 50 Foot Coil  
• 1 Segment = 6 Elements

Part No. Description

## 1/2" Extended Element



51833 pack of 4  
59883 pack of 20

## 1/2" Element Clamp



51834 pack of 4 (w/ screws)  
59884 pack of 20 (w/ screws)

## 1/4" Round Nozzle for 1/2"



51806 pack of 4  
59866 pack of 50

## 3/8" Round Nozzle



51802 pack of 4  
59862 pack of 50

## 1/2" Round Nozzle



51803 pack of 4  
59863 pack of 50

## 1/4" 90° Nozzle



51828 pack of 4  
59878 pack of 20

## 3/8" 90° Nozzle



51829 pack of 4  
59879 pack of 20

## 1/2" 90° Nozzle



51830 pack of 4  
59880 pack of 20

## 1/2" 90° Spray Bar Nozzle



51831 pack of 2  
59881 pack of 20

## 1 1/4" Flare Nozzle



51807 pack of 2  
59867 pack of 20

## 2 1/2" Flare Nozzle



51809 pack of 2  
59871 pack of 20

Part No. Description

## 3/8" NPT Connector



51804 pack of 4  
59864 pack of 50

## 3/8" BSPT\* Connector



51826 pack of 4  
59876 pack of 50  
\* British Standard Pipe Thread

## 1/2" NPT Connector



51805 pack of 4  
59865 pack of 50

## 1/2" BSPT\* Connector



51827 pack of 4  
59877 pack of 50  
\* British Standard Pipe Thread

## 1/2" Y Fitting



51808 pack of 2  
59868 pack of 20

## 1/2" to 1/4" Y Reducer



51822 pack of 2  
59870 pack of 20

## 1/2" to 1/4" Adapter



51821 pack of 2  
59869 pack of 20

## 1/2" Double Socket



51811 pack of 4  
59872 pack of 20

## 3/8" SAE Flare Nut Adapter
























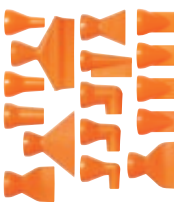

51823 pack of 4  
59873 pack of 20  
• 5/8 - 18 Thread

## 1/2" Elbow Fitting



51824 pack of 2  
59874 pack of 20



Part No.	Description	Part No.	Description	Part No.	Description
	<b>1/2" T Fitting</b> <b>51825</b> pack of 2 <b>59875</b> pack of 20		<b>1/2" Flat Slot 80 Nozzle</b> <b>51840</b> pack of 4 <b>59890</b> pack of 20 • .080" Slot height		<b>1/2" Fixed Mount</b> <b>51895</b> pack of 2 <b>59896</b> pack of 20 • Mounts with 1/4" bolt, not included.
	<b>1/2" Side Flow Nozzle</b> <b>51836</b> pack of 4 <b>59889</b> pack of 20		<b>1/2" Flat Slot 125 Nozzle</b> <b>51841</b> pack of 4 <b>59891</b> pack of 20 • .125" Slot height		<b>1/2" Magnetic Base</b> <b>51846</b> pack of 1 • 60 # holding force
	<b>1/2" End Cap</b> <b>51838</b> pack of 4 <b>59885</b> pack of 20		<b>1/2" Flat 5 Hole Nozzle</b> <b>51842</b> pack of 4 <b>59892</b> pack of 20 • .125" Hole diameter		<b>50872 1/2" Ext. Elbow Kit</b> 4 Extended Elbows 4 Element Clamps 3/8" & 1/2" NPT Connectors 1/4", 3/8", 1/2" Nozzles
	<b>2 1/2" Swivel Nozzle 75 for 1/2"</b> <b>51845</b> pack of 2 <b>59895</b> pack of 20 • .075" Hole diameter		<b>1/2" Flat 7 Hole Nozzle</b> <b>51843</b> pack of 4 <b>59893</b> pack of 20 • .080" Hole diameter		<b>50873 1/2" Mixed Element Kit</b> 2 Extended Elbows 2 Extended Elements 4 Element Clamps 3/8" & 1/2" NPT Connectors 1/4", 3/8", 1/2" Nozzles
	<b>1/2" In-Line Check Valve</b> <b>32091</b> pack of 2 <b>39851</b> pack of 10		<b>51844 1/2" Flat Nozzle Assortment</b> Includes one each of: Flat Slot 80 Nozzle Flat Slot 125 Nozzle Flat 5 Hole Nozzle Flat 7 Hole Nozzle		<b>50874 1/2" Extended Elbows with Clamps</b> 4 Extended Elbows 4 Element Clamps
	<b>1 1/4" Straight Flow Nozzle</b> <b>51847</b> pack of 2 <b>59897</b> pack of 20		<b>1/2" Male NPT Valve*</b> <b>32092</b> pack of 2 <b>39852</b> pack of 10		<b>1/2" Extended Elbows</b> <b>51896</b> pack of 4 <b>59899</b> pack of 20
	<b>1 1/4" Straight Flow Nozzle</b> <b>51848</b> pack of 2 <b>59898</b> pack of 20		<b>1/2" Female NPT Valve*</b> <b>32093</b> pack of 2 <b>39853</b> pack of 10		<b>1/2" Hose Assembly Pliers</b> <b>78002</b> one 1/2" pliers <b>78003</b> 1/4" & 1/2" pliers set
	<b>1/2" Nozzle-Rama Pack</b> <b>51849</b> One of each nozzle for 1/2" hose system. (16 nozzles)		<b>1/2" In-Line Valve*</b> <b>32094</b> pack of 2 <b>39854</b> pack of 10	<b>ASSEMBLY TIP:</b> Assembly can be made easier by first rubbing the Loc-Line ball with your fingers and then using the pliers.	
<b>DIMENSIONAL INFORMATION FOR THE 1/2" SYSTEM ON PAGE 18</b>		<b>* 1/2" Valve Specifications</b> <ul style="list-style-type: none"><li>• Full 1/2" inside diameter</li><li>• Maximum Working Pressures:<ul style="list-style-type: none"><li>1/2" Hose: 20 PSI</li><li>1/2" In-Line Valve: 20 PSI</li><li>1/2" Male and Female NPT Valves: 100 PSI</li><li>(1/2" Hose limits most applications to 20 PSI)</li></ul></li><li>• Body and stem material: Acetal Copolymer</li><li>• Stem seal: Nitrile (Buna N)</li><li>• 1/4 turn shut off</li></ul>			

# 3/4" SYSTEM & SHIELDS

3/4" INSIDE DIAMETER

## Part No. Description



### 60513 3/4" Hose Kit

14" Length with Fittings:  
2 - Segments, 5 3/4" Long  
5/8" & 3/4" Nozzles  
3/4" NPT Connector



### 3/4" Segment Pack



61501 2 - Segments, 5 3/4" Long  
69540 Bulk 25 ft., 54 Segm'ts  
69541 3/4" 50 Foot Coil  
• 1 Segment = 6 Elements



### 5/8" Round Nozzle



61503 pack of 4  
69543 pack of 50

### 3/4" Round Nozzle



61502 pack of 4  
69542 pack of 50

### 3" Flare Nozzle



61507 pack of 2  
69547 pack of 20

### \* 3/4" Valve Specifications

- Full 3/4" inside diameter
- Maximum Working Pressures:  
3/4" Hose: 10 PSI  
3/4" In-Line Valve: 10 PSI  
3/4" Male and Female NPT Valves: 50 PSI  
(3/4" Hose limits most applications to 10 PSI)
- Body and stem material: Acetal Copolymer  
Stem seal: Nitrile (Buna N)
- 1/4 turn shut off

## Part No. Description



### 3/4" NPT Connector

61505 pack of 4  
69545 pack of 50



### 3/4" BSPT\* Connector

61509 pack of 4  
69549 pack of 50  
\* British Standard Pipe Thread



### 3/4" Y Fitting

61511 pack of 2  
69551 pack of 20



### 3/4" to 1/2" Y Reducer

61512 pack of 2  
69552 pack of 20



### 3/4" to 1/2" Adapter

61508 pack of 2  
69548 pack of 20



### 3/4" Double Socket

61514 pack of 4  
69554 pack of 20



### 3/4" Elbow

61515 pack of 2  
69555 pack of 20



### 3/4" Male NPT Valve\*

61516 pack of 2  
69556 pack of 10



### 3/4" Female NPT Valve\*

61517 pack of 2  
69557 pack of 10



### 3/4" In-line Valve\*

61518 pack of 2  
69558 pack of 10

## Part No. Description

### SHIELDS AND ACCESSORIES

Provides protection from flying chips and splashing fluids • Shield rotates 360 degrees  
• Two mounting options include a movable magnetic base or a direct mount • 1/8" thick polycarbonate • Filled magnetic base prevents chip entrapment



### Quick-Set Shield™ Kit

60525 6"x8" Shield Kit  
60526 7 1/2"x10" Shield Kit  
60527 8 1/2"x12" Shield Kit

All Quick-Set Shield Kits include a 14" adjustable 3/4" Loc-Line® arm, magnetic base and fitting for fixed mounting.

### Replacement Shield

60528 6"x8" Shield  
60529 7 1/2"x10" Shield  
60530 8 1/2"x12" Shield

### Shield Mounting Elbow



60531 pack of 2  
69561 pack of 20  
• Washer and screw included.

### 3/4" Magnetic Base



60532 pack of one  
• 60# holding force

### 3/4" Fixed Mount



60533 pack of 2  
69563 pack of 20  
• Mounts with 1/4" bolt, not included.



### 3/4" Hose Assembly Pliers

78004 pack of one  
• 3/4" Assembly Pliers will not assemble the 3/4" Y Fitting, the 3/4" Fixed Mount or the 3/4" Valves.

### ASSEMBLY TIP:

Assembly can be made easier by first rubbing the Loc-Line ball with your fingers and then using the pliers.



# MODULAR MANIFOLDS

Part No. Description

## MODULAR MANIFOLDS & TOTAL FLOW CONTROL MANIFOLDS

Distribute coolant from one inlet to multiple outlets • Number of outlets can be changed simply by popping T fittings in or out of the assembly • Adding valves to a Modular Manifold creates the Total Flow Control Manifold • Regulate the flow from each line independently • Shut off any unnecessary lines

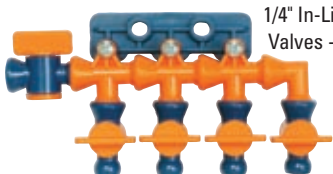
### 21199 1/4" Modular Manifold

1/4" T Fittings - 3 pcs  
1/4" Elbow Fitting - 1 pc  
1/4" Man. Bracket - 1 pc  
Mounting Screws - 3 pcs



### 21198 1/4" Total Flow Control Manifold

1/4" Mod. Manifold - 1 pc  
1/4" In-Line Valves - 5 pcs



### 1/4" Modular Manifold Brackets

21195 pack of 2



### 1/4" Elbow Fitting

41415 pack of 2  
49435 pack of 20



### 1/4" T Fitting

41416 pack of 2  
49436 pack of 20



Part No. Description

### 32099 1/2" Modular Manifold

1/2" T Fittings - 3 pcs  
1/2" Elbow Fitting - 1 pc  
1/2" Man. Bracket - 1 pc  
Mounting Screws - 3 pcs



### 32098 1/2" Total Flow Control Manifold

1/2" Modular Manifold - 1 pc  
1/2" In-Line Valves - 5 pcs



### 1/2" Modular Manifold Bracket

32095 pack of 2



### 1/2" Elbow Fitting

51824 pack of 2  
59874 pack of 20



### 1/2" T Fitting

51825 pack of 2  
59875 pack of 20



Part No. Description

## MAGNETIC BASE MANIFOLD

Magnetic Manifold allows distribution of coolant through 4 separate openings from one source • Magnet can mount on spindle or worktable for convenient access to the work piece • 1/4" ports accept any 1/4" standard fitting.

### 40480 Magnetic Base Manifold Super Kit

1/4" Segments - 8 pcs  
1/4" MNPT Valves - 5 pcs  
1" Flare Nozzle - 2 pcs  
1/4" Round Nozzle - 2 pcs  
1/8" Round Nozzle - 2 pcs  
1/16" Round Nozzle - 2 pcs  
Mag. Base Manifold - 1 pc  
1/4" Plug - 2 pcs  
1/4" Barb Fitting - 1 pc



### 40463 Magnetic Base Manifold Kit

1/4" Segments - 2 pcs  
1/4" MNPT Valves - 1 pc  
1" Flare Nozzle - 1 pc  
1/4" Round Nozzle - 1 pc  
1/8" Round Nozzle - 1 pc  
1/16" Round Nozzle - 1 pc  
Mag. Base Manifold - 1 pc  
1/4" Plug - 3 pcs  
1/4" Barb Fitting - 1 pc



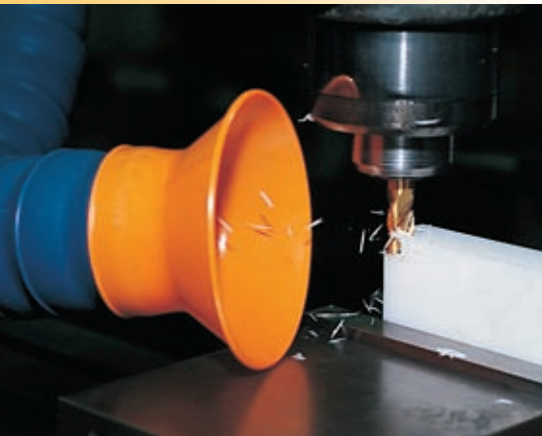
### 40400 Magnetic Base Manifold

Mag. Base Manifold - 1 pc  
1/4" Plug - 3 pcs  
1/4" Barb Fitting - 1 pc  
• 25# holding force



**DIMENSIONAL INFORMATION  
FOR THE 3/4" SYSTEM AND  
MANIFOLDS ON PAGE 19**

# VACUUM HOSE



The LOC-LINE® 2½" Vacuum Hose is designed to be added to an existing central vacuum system to extract smoke, dust, fumes and particles at the source. It is easy to position within a work area and can be mounted to 3" thin walled PVC drain pipe, 3" sheet metal duct, or a portable shop vacuum.

## VACUUM HOSE APPLICATIONS

- Soldering
- Wet Grinding
- Machining applications; especially mist, graphite and particles
- Chemical odors and fumes (except acids)
- Woodworking

## VACUUM HOSE FEATURES

Create a custom vacuum hose by changing the length or the nozzle. Pop together the appropriate number of elements and choose the nozzle best suited for your application.

- Hand adjustable in 360°.
- Simple to reposition. It is self-supporting up to 3 feet so it stays where you put it.
- Durable, will not fray and is resistant to crushing.
- Made of premium grade acetal copolymer and is resistant to most chemicals.
- Tight turns are easy with a bending radius of 5.75".
- Anti-static hose is perfect for applications that require rapid dissipation of static build-up.

## TEMPERATURE SPECIFICATIONS

- Melting point: 329°F
- Maximum operating temperature: 170°F

## ANTI-STATIC HOSE ELECTRICAL PROPERTIES

- Surface Resistivity: 1.000E3 Ohm
- Volume Resistivity: <6.000E2 Ohm-cm

## CAUTION

*LOC-LINE® Vacuum Hose is made from an acetal copolymer. This material is not fire retardant and would pose a fire hazard if the material is subjected to an application where high temperatures or flames exist.*

*The Anti-Static Hose must be used within a completely grounded system.*



**NEW BLACK "ANTI-STATIC" VACUUM HOSE DISSIPATES STATIC BUILD-UP.**



Part No. Description

**Vacuum Segment Packs**

- 81201** 9 elements 2.5" ID  
**81301AS** anti-static, 9 elm'ts  
 (1 foot segment)  
**81202** 18 elements 2.5" ID  
**81302AS** anti-static, 18 elm'ts  
 (2 - one foot segments)  
**89220** 180 elements 2.5" ID  
**89320AS** anti-static, 180 elm'ts  
 (20 - one foot segments)



**4.5" Round Nozzle**

- 81203** pack of 1  
**81303AS** anti-static, pack of 1  
**89223** pack of 10  
**89323AS** anti-static, pack of 10



**6"x3.5" Rectangular Nozzle**

- 81204** pack of 1  
**81304AS** anti-static, pack of 1  
**89224** pack of 10  
**89324AS** anti-static, pack of 10



**Tapered Oval Nozzle**

- 81205** pack of 1  
**81305AS** anti-static, pack of 1  
**89225** pack of 10  
**89325AS** anti-static, pack of 10



**3" PVC Adapter**

- 81206** pack of 1  
**89226** pack of 10  
 \* Not available in "anti-static"



**3" Sheet Metal Duct Adapter**

- 81207** pack of 1  
**81307AS** anti-static, pack of 1  
**89227** pack of 10  
**89327AS** anti-static, pack of 10



**2.5" Slide Valve**

- 81208** pack of 1  
**81308AS** anti-static, pack of 1  
**89228** pack of 10  
**89328AS** anti-static, pack of 10



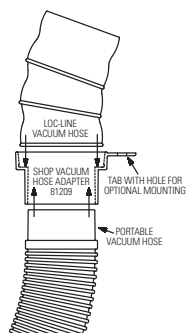
**Shop Vacuum Hose Adapter with mounting tab**

- 81209** pack of 1  
**89229** pack of 10

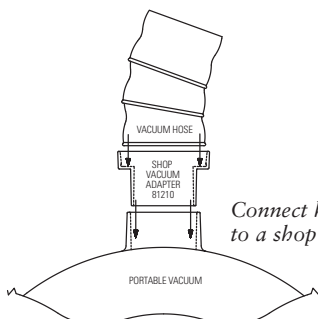


**Shop Vacuum Adapter**

- 81210** pack of 1  
**89230** pack of 10

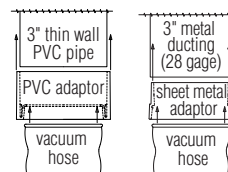


Connect hose directly to a standard shop vacuum hose



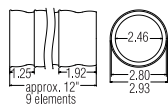
Connect hose directly to a shop vacuum

**MOVE YOUR DUST COLLECTION TO THE SOURCE**

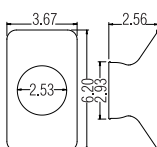


Hose connects to 3" metal duct or PVC pipe using Loc-Line adapters

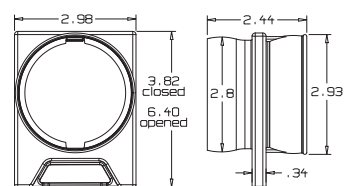
**VACUUM SEGMENT 81201**



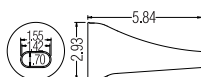
**RECTANGULAR NOZZLE 81204**



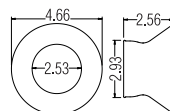
**SLIDE VALVE 81208**



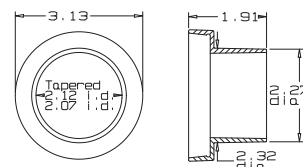
**TAPERED OVAL NOZZLE 81205**



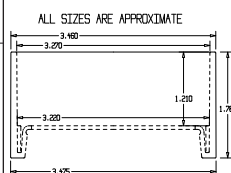
**ROUND NOZZLE 81203**



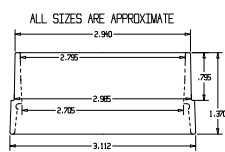
**SHOP VACUUM ADAPTER 81210**



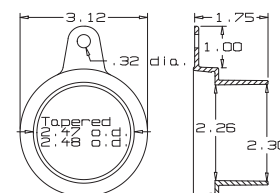
**PVC ADAPTER 81206**



**SHEET METAL DUCT ADAPTER 81207**



**SHOP VACUUM HOSE ADAPTER WITH MOUNTING TAB 81209**



# ACID RESISTANT HOSE & TEFEN FITTINGS

## Part No. Description

### 1/4" ACID RESISTANT HOSE

- 45463** 1/4" Acid Resistant Hose Kit
- 45401** 1/4" Acid Resistant Segm't Pack, (2 Segments, 5 1/2" Long)
- 46420** 1/4" Acid Resistant Segm'ts, Bulk 25 ft.
- 46421** 1/4" 50 Foot Acid Resistant Coil
- 45402** 1/16" Acid Resistant Nozzles, pack of 4
- 46422** 1/16" Acid Resistant Nozzles, pack of 50
- 45403** 1/8" Acid Resistant Nozzles, pack of 4
- 46423** 1/8" Acid Resistant Nozzles, pack of 50
- 45404** 1/4" Acid Resistant Nozzles, pack of 4
- 46424** 1/4" Acid Resistant Nozzles, pack of 50
- 45407** 1" Acid Resistant Flares, pack of 2
- 46427** 1" Acid Resistant Flares, pack of 20
- 45405** 1/8" Acid Resistant NPTs, pack of 4
- 46425** 1/8" Acid Resistant NPTs, pack of 50
- 45406** 1/4" Acid Resistant NPTs, pack of 4
- 46426** 1/4" Acid Resistant NPTs, pack of 50
- 45408** 1/4" Acid Resistant Y Fittings, pack of 2
- 46428** 1/4" Acid Resistant Y Fittings, pack of 20
- 45409** 1/4" Acid Resistant Double Socket, pack of 4
- 46429** 1/4" Acid Resistant Double Socket, pack of 20
- 45411** 1/4" Socket to 1/8" FNPT Acid Resistant, pack of 4
- 46431** 1/4" Socket to 1/8" FNPT Acid Resistant, pack of 20
- 45415** 1/4" Acid Resistant Elbows, pack of 2
- 46435** 1/4" Acid Resistant Elbows, pack of 20
- 45416** 1/4" Acid Resistant T Fittings, pack of 2
- 46436** 1/4" Acid Resistant T Fittings, pack of 20
- 45481** 1/4" Acid Resistant Swivel Nozzle 40, pack of 2
- 46449** 1/4" Acid Resistant Swivel Nozzle 40, pack of 20
- 45482** 1/4" Acid Resistant Swivel Nozzle 60, pack of 2
- 46450** 1/4" Acid Resistant Swivel Nozzle 60, pack of 20

## Part No. Description


### 1/2" ACID RESISTANT HOSE

- 56863** 1/2" Acid Resistant Hose Kit
- 56801** 1/2" Acid Resistant Segment Pack, (2 Segments, 5 1/2" Long)
- 57860** 1/2" Acid Resistant Segm'ts, Bulk 25 ft.
- 57861** 1/2" 50 Foot Acid Resistant Coil
- 56806** 1/4" Acid Resistant Nozzles, pack of 4
- 57866** 1/4" Acid Resistant Nozzles, pack of 50
- 56802** 3/8" Acid Resistant Nozzles, pack of 4
- 57862** 3/8" Acid Resistant Nozzles, pack of 50
- 56803** 1/2" Acid Resistant Nozzles, pack of 4
- 57863** 1/2" Acid Resistant Nozzles, pack of 50
- 56804** 3/8" Acid Resistant NPTs, pack of 4
- 57864** 3/8" Acid Resistant NPTs, pack of 50
- 56805** 1/2" Acid Resistant NPTs, pack of 4
- 57865** 1/2" Acid Resistant NPTs, pack of 50
- 56807** 1 1/4" Acid Resistant Flare Nozzles, pack of 2
- 57867** 1 1/4" Acid Resistant Flare Nozzles, pack of 20
- 56808** 1/2" Acid Resistant Y Fittings, pack of 2
- 57868** 1/2" Acid Resistant Y Fittings, pack of 20
- 56821** 1/2" to 1/4" Acid Resistant Adapter, pack of 2
- 57869** 1/2" to 1/4" Acid Resistant Adapter, pack of 20
- 56822** 1/2" to 1/4" Acid Resistant Y Reducer, pack of 2
- 57870** 1/2" to 1/4" Acid Resistant Y Reducer, pack of 20
- 56824** 1/2" Acid Resistant Elbows, pack of 2
- 57874** 1/2" Acid Resistant Elbows, pack of 20
- 56825** 1/2" Acid Resistant T Fittings, pack of 2
- 57875** 1/2" Acid Resistant T Fittings, pack of 20

- Loc-Line® Acid Resistant Hose is excellent for rinsing cycles in plating operations.
  - Acid environments won't corrode the Loc-Line® Acid Resistant Hose because of its polyester composition.
- CAUTION:** Loc-Line® Acid Resistant Hose is not intended for conveying acids or high pressure applications.

## Part No. Description

### TEFEN™ THREADED COUPLINGS & REDUCERS

 These items change male fittings to female threads. Tefen™ products are made in Israel.

- 40656** 1/8" Female Pipe Couplings, pack of 4
- 41756** 1/8" Female Pipe Couplings, pack of 20
- 40657** 1/4" Female Pipe Couplings, pack of 4
- 41757** 1/4" Female Pipe Couplings, pack of 20
- 50660** 3/8" Female Pipe Couplings, pack of 4
- 51760** 3/8" Female Pipe Couplings, pack of 20
- 50661** 1/2" Female Pipe Couplings, pack of 4
- 51761** 1/2" Female Pipe Couplings, pack of 20



- 40655** 1/4" to 1/8" Female Pipe Reducers, pack of 4
- 41755** 1/4" to 1/8" Female Pipe Reducers, pack of 20
- 50658** 3/8" to 1/4" Female Pipe Reducers, pack of 4
- 51758** 3/8" to 1/4" Female Pipe Reducers, pack of 20
- 50659** 1/2" to 1/4" Female Pipe Reducers, pack of 4
- 51759** 1/2" to 1/4" Female Pipe Reducers, pack of 20

### Common Compatibility with Polyester Products Acid Resistant Loc-Line® Yellow Color

No	Yes	Acetone
	Yes	Acids, (Less than 150° F)
No		Acids, (Greater than 150° F)
	Yes	Alcohols
	Yes	Aromatic Solvents
No		Chlorinated Hydrocarbon
No		Bases, Strong
No		Ethyl Acetate
	Yes	Gasoline
	Yes	Greases
	Yes	Hydrocarbons
	Yes	Oils
	Yes	Salt Solutions
No		Water (Greater than 150° F)



# SPECIFICATIONS

# 1/4" SYSTEM

1/4" SEGMENT 41401		1/4" HOSE MINIMUM DIAMETER		1/4" IN-LINE CHECK VALVE 21191		1/4" SOCKET TO 1/8" FNPT 41411		1" STRAIGHT FLOW NOZZLE 41489	
1/4" FLAT 5 HOLE NOZZLE 41485		1/4" FLAT 7 HOLE NOZZLE 41486		1/4" FLAT SLOT 40 NOZZLE 41483		1/4" FLAT SLOT 60 NOZZLE 41484		1/4" 90° SPRAY BAR NOZZLE 41473	
1/4" IN-LINE VALVES 21194		1/4" FEMALE NPT VALVE 21193		1/4" MALE NPT VALVE 21192		1/4" Y FITTING 41408		1/4" NPT CONNECTOR 41406	
1/16" 90° NOZZLE 41470		1/8" 90° NOZZLE 41471		1/4" 90° NOZZLE 41472		1/16", 1/8" & 1/4" ROUND NOZZLES 41402 • 41403 • 41404			
1/4" CIRCLE FLOW ASSEMBLY 41479		1/4" CIRCLE FLOW ASSEMBLY 41479		1/4" ELBOW FITTING 41415		1/4" T FITTING 41416		1/4" DOUBLE SOCKET 41409	
SWIVEL NOZZLE 75 41488		SWIVEL NOZZLE 60 41482		SWIVEL NOZZLE 40 41481		1/4" EXTENDED ELEMENT & CLAMP 41476 & 41477			

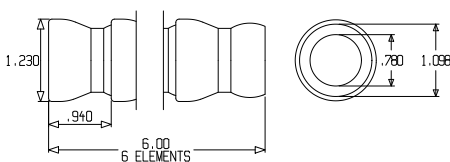
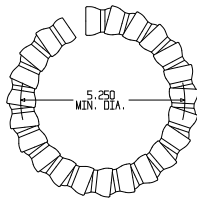
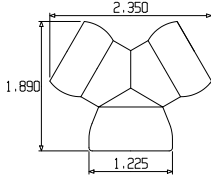
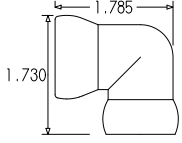
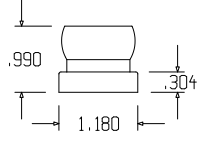
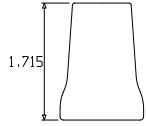
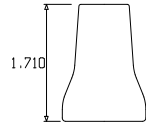
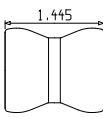
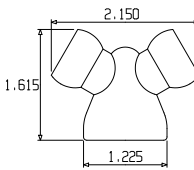
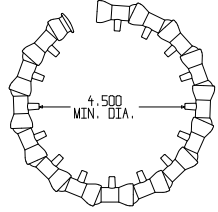
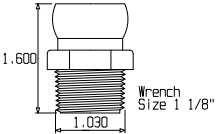
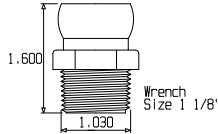
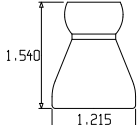
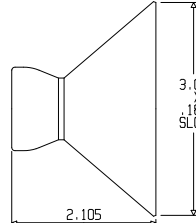
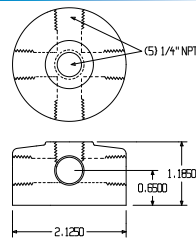
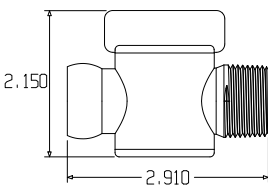
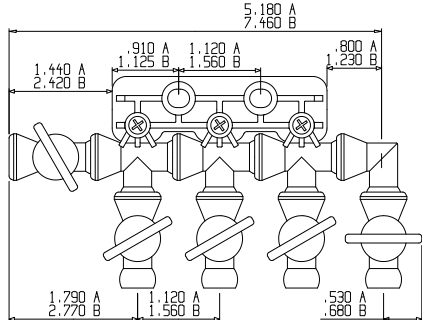
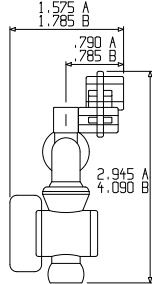
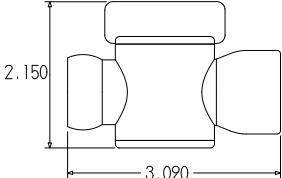
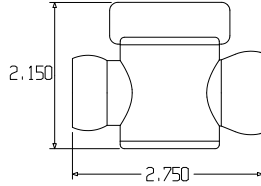
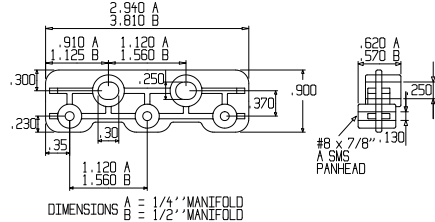
# 1/2" SYSTEM

## SPECIFICATIONS

<b>1/2" SEGMENT 51801</b> 		<b>1/2" HOSE MINIMUM BENDING DIAMETER</b> 		<b>1/4", 3/8" &amp; 1/2" ROUND NOZZLES 51806 • 51802 • 51803</b> 		<b>1/2" EXTENDED ELBOW 51896</b> 
<b>1/2" FLAT SLOT 80 NOZZLE 51840</b> 	<b>1/2" FLAT SLOT 125 NOZZLE 51841</b> 	<b>1/2" FLAT 5 HOLE NOZZLE 51842</b> 	<b>1/2" FLAT 7 HOLE NOZZLE 51843</b> 	<b>1/2" MALE VALVE 32092</b> 	<b>1/4" 90° NOZZLE 51828</b> 	<b>1/4" 90° NOZZLE 51829</b> 
<b>1/2" DOUBLE SOCKET 51811</b> 	<b>1/2" NPT CONNECTOR 51805</b> 	<b>3/8" NPT CONNECTOR 51804</b> 	<b>1/2" TO 1/4" Y REDUCER 51822</b> 	<b>1/2" FEMALE VALVE 32093</b> 	<b>1/2" 90° NOZZLE 51830</b> 	<b>1/2" IN-LINE CHECK VALVE 32091</b> 
<b>1 1/4" FLARE NOZZLE 51807</b> 	<b>2 1/2" FLARE NOZZLE 51809</b> 	<b>1 1/4" STRAIGHT FLOW NOZZLE 51847</b> 	<b>1 1/4" STRAIGHT FLOW NOZZLE 51848</b> 	<b>1/2" IN-LINE VALVE 32094</b> 	<b>1/2" 90° NOZZLE 51830</b> 	<b>1/2" IN-LINE CHECK VALVE 32091</b> 
<b>1/2" CIRCLE FLOW ASSEMBLY 51837</b> 	<b>1/2" ELBOW FITTING 51824</b> 	<b>1/2" T FITTING 51825</b> 	<b>1/2" TO 1/4" ADAPTER 51821</b> 	<b>1/2" IN-LINE CHECK VALVE 32091</b> 	<b>1/2" 90° NOZZLE 51830</b> 	<b>1/2" IN-LINE CHECK VALVE 32091</b> 
<b>1/2" Y FITTING 51808</b> 	<b>1/2" EXTENDED ELEMENT &amp; CLAMP 51833 &amp; 51834</b> 	<b>1/2" FIXED MOUNT 51895</b> 	<b>2 1/2" SWIVEL NOZZLE 75 51845</b> 	<b>1/2" 90° SPRAY BAR NOZZLE 51831</b> 	<b>1/2" 90° NOZZLE 51830</b> 	<b>1/2" IN-LINE CHECK VALVE 32091</b> 

# SPECIFICATIONS

# 3/4" SYSTEM & MANIFOLDS

<b>3/4" SEGMENT 61501</b>		<b>3/4" HOSE MINIMUM BENDING DIAMETER</b>	<b>3/4" Y FITTING 61511</b>	<b>3/4" ELBOW 61515</b>	<b>3/4" FIXED MOUNT 60533</b>
					
<b>3/4" ROUND NOZZLE 61502</b>	<b>5/8" ROUND NOZZLE 61503</b>	<b>3/4" DOUBLE SOCKET 61514</b>	<b>3/4" TO 1/2" Y REDUCER 61512</b>	<b>1/2" CIRCLE FLOW NOZZLE KIT 51837</b>	
					
<b>3/4" NPT CONNECTOR 61505</b>	<b>3/4" BSPT CONNECTOR 61509</b>	<b>3/4" to 1/2" ADAPTER 61508</b>	<b>3" FLARE NOZZLE 61507</b>	<b>MAGNETIC BASE MANIFOLD 40400</b>	
					
<b>3/4" MALE NPT VALVE 61516</b>		<b>TOTAL FLOW CONTROL MANIFOLD 21198 &amp; 32098</b>			
					
<b>3/4" FEMALE NPT VALVE 61517</b>					
		<p>TOTAL FLOW CONTROL MANIFOLD DIMENSIONS A = 1/4" SYSTEM B = 1/2" SYSTEM</p>			
<b>3/4" IN-LINE VALVE 61518</b>		<b>MODULAR MANIFOLD BRACKET 21195 &amp; 32095</b>			
					
		<p>DIMENSIONS A = 1/4" MANIFOLD B = 1/2" MANIFOLD</p>			



# PART NUMBER INDEX

Part No.	Description	Page	Part No.	Description	Page	Part No.	Description	Page
21191	1/4" In-Line Check Valve (2 pcs)	9	41476	1/4" Extended Elements (4 pcs)	8	49426	1/4" NPT (50 pcs)	8
21192	1/4" Male NPT Valve (2 pcs)	9	41477	1/4" Element Clamps (4 pcs)	8	49427	1" Flare Nozzle (20 pcs)	8
21193	1/4" Female NPT Valve (2 pcs)	9	41478	1/4" Side Flow Nozzle (4 pcs)	9	49428	1/4" Y Fitting (20 pcs)	8
21194	1/4" In-Line Valve (2 pcs)	9	41479	1/4" Circle Flow Kit	9	49429	1/4" Double Socket (20 pcs)	8
21195	1/4" Manifold Bracket (2pcs)	13	41480	1/4" End Caps (4 pcs)	9	49431	1/4" Socket X 1/8" FNPT (20 pcs)	8
21198	1/4" Total Flow Control Manifold	13	41481	Swivel Nozzle 40 (2 pcs)	9	49432	3/8" SAE Flare Nut Adapter (20 pcs)	8
21199	1/4" Modular Manifold	13	41482	Swivel Nozzle 60 (2 pcs)	9	49434	1/4" SAE Flare Nut Adapter (20 pcs)	8
29451	1/4" In-Line Check Valve (10 pcs)	9	41483	1/4" Flat Slot 40 Nozzle (4 pcs)	9	49435	1/4" Elbows (20 pcs)	8,13
29452	1/4" Male NPT Valve (10 pcs)	9	41484	1/4" Flat Slot 60 Nozzle (4 pcs)	9	49436	1/4" T Fitting (20 pcs)	9,13
29453	1/4" Female NPT Valve (10 pcs)	9	41485	1/4" Flat 5 Hole Nozzle (4 pcs)	9	49437	1/8" BSPT/PT (50 pcs)	8
29454	1/4" In-Line Valve (10 pcs)	9	41486	1/4" Flat 7 Hole Nozzle (4 pcs)	9	49438	1/4" BSPT/PT (50 pcs)	8
32091	1/2" In-Line Check Valve (2 pcs)	11	41487	1/4" Flat Nozzle Assortment Pack	9	49439	1/16" 90° Nozzle (20 pcs)	8
32092	1/2" Male NPT Valve (2 pcs)	11	41488	2½" Swivel Noz. 75 for 1/4" (2 pcs)	9	49440	1/8" 90° Nozzle (20 pcs)	8
32093	1/2" Female NPT Valve (2 pcs)	11	41489	1" Straight Flow Nozzle (2 pcs)	9	49441	1/4" 90° Nozzle (20 pcs)	8
32094	1/2" In-Line Valve (2 pcs)	11	41490	1/4" Nozzle-Rama Pack	9	49442	1/4" Spray Bar 90° Nozzle (20 pcs)	8
32095	1/2" Manifold Bracket (2 pcs)	13	41491	1/4" Extended Elbows (4 pcs)	9	49443	1/4" Side Flow Nozzles (20 pcs)	9
32098	1/2" Total Flow Control Manifold	13	41755	1/4" to 1/8" Female Reducer (20 pcs)	16	49445	1/4" Extended Elements (20 pcs)	8
32099	1/2" Modular Manifold	13	41756	1/8" Female Pipe Coupling (20 pcs)	16	49446	1/4" Element Clamps (20 pcs)	8
39851	1/2" In-Line Check Valve (10 pcs)	11	41757	1/4" Female Pipe Coupling (20 pcs)	16	49447	1/4" End Caps (20 pcs)	8
39852	1/2" Male NPT Valve (10 pcs)	11	45401	1/4" AR Segment Pack (2 pcs)	16	49448	1/4" 4 way Cross (20 pcs)	
39853	1/2" Female NPT Valve (10 pcs)	11	45402	1/16" AR Nozzle Pack (4 pcs)	16	49449	1/4" Swivel Nozzle 40 (20 pcs)	9
39854	1/2" In-Line Valve (10 pcs)	11	45403	1/8" AR Nozzle Pack (4 pcs)	16	49450	1/4" Swivel Nozzle 60 (20 pcs)	9
40400	Magnetic Base Manifold	13	45404	1/4" AR Nozzle Pack (4 pcs)	16	49451	1/4" Flat Slot 40 Nozzle (20 pcs)	9
40413	1/4" Hose Assembly Kit	8	45405	1/8" AR NPT Pack (4 pcs)	16	49452	1/4" Flat Slot 60 Nozzle (20 pcs)	9
40452	1/4" Flared Tubing Kit	8	45406	1/4" AR NPT Pack (4 pcs)	16	49453	1/4" Flat 5 Hole Nozzle (20 pcs)	9
40463	Magnetic Base Manifold Kit	13	45407	1" AR Flare Nozzle (2 pcs)	16	49454	1/4" Flat 7 Hole Nozzle (20 pcs)	9
40472	1/4" Extended Elbow Kit	9	45408	1/4" AR Y Fitting (2 pcs)	16	49455	2½" Swivel Noz. 75 for 1/4" (20 pcs)	9
40473	1/4" Mixed Element Kit	9	45409	1/4" AR Double Socket (4 pcs)	16	49456	1" Straight Flow Nozzle (20 pcs)	9
40474	1/4" Extended Elbows with Clamps	9	45411	1/4" AR Socket X 1/8" FNPT (4 pcs)	16	49457	1/4" Extended Elbows (20 pcs)	9
40480	Magnetic Base Manifold Super Kit	13	45415	1/4" AR Elbow (2 pcs)	16	50658	3/8" to 1/4" FNPT Reducer (4 pcs)	16
40655	1/4" to 1/8" Pipe Reducer (4 pcs)	16	45416	1/4" AR T Fitting (2 pcs)	16	50659	1/2" to 1/4" FNPT Reducer (4 pcs)	16
40656	1/8" Female Pipe Coupling (4 pcs)	16	45463	1/4" AR Hose Assembly Kit	16	50660	3/8" Female Coupling (4 pcs)	16
40657	1/4" Female Pipe Coupling (4 pcs)	16	45481	1/4" AR Swivel Nozzle 40 (2 pcs)	16	50661	1/2" Female Coupling (4 pcs)	16
41401	1/4" Hose Segment Pack (2 pcs)	8	45482	1/4" AR Swivel Nozzle 60 (2 pcs)	16	50813	1/2" Hose Assembly Kit	10
41402	1/16" Nozzle Pack (4 pcs)	8	46420	1/4" AR Segments (25 ft)	16	50872	1/2" Extended Elbow Kit	11
41403	1/8" Nozzle Pack (4 pcs)	8	46421	1/4" AR 50 ft. Coil	16	50873	1/2" Mixed Element Kit	11
41404	1/4" Nozzle Pack (4 pcs)	8	46422	1/16" AR Nozzles (50 pcs)	16	50874	1/2" Extended Elbows with Clamps	11
41405	1/8" NPT Pack (4 pcs)	8	46423	1/8" AR Nozzles (50 pcs)	16	51758	3/8" to 1/4" FNPT Reducer (20 pcs)	16
41406	1/4" NPT Pack (4 pcs)	8	46424	1/4" AR Nozzles (50 pcs)	16	51759	1/2" to 1/4" FNPT Reducer (20 pcs)	16
41407	1" Flare Nozzle Pack (2 pcs)	8	46425	1/8" AR NPT (50 pcs)	16	51760	3/8" Female Coupling (20 pcs)	16
41408	1/4" Y Fitting Pack (2 pcs)	8	46426	1/4" AR NPT (50 pcs)	16	51761	1/2" Female Coupling (20 pcs)	16
41409	1/4" Double Socket Pack (4 pcs)	8	46427	1" AR Flare Nozzle (20 pcs)	16	51801	1/2" Hose Segment Pack (2 pcs)	10
41411	1/4" Socket X 1/8" FNPT (4 pcs)	8	46428	1/4" AR Y Fitting (20 pcs)	16	51802	3/8" Nozzle Pack (4 pcs)	10
41412	3/8" SAE Flare Nut for 1/4" (4 pcs)	8	46429	1/4" AR Double Socket (20 pcs)	16	51803	1/2" Nozzle Pack (4 pcs)	10
41414	1/4" SAE Flare Nut for 1/4" (4 pcs)	8	46431	1/8" AR FNPT X 1/4" Sckt (20 pcs)	16	51804	3/8" NPT Connector Pack (4 pcs)	10
41415	1/4 Elbow Fitting Pack (2 pcs)	8,13	46435	1/4" AR Elbow (20 pcs)	16	51805	1/2" NPT Connector Pack (4 pcs)	10
41416	1/4" T Fitting Pack (2 pcs)	9,13	46436	1/4" AR T Fitting (20 pcs)	16	51806	1/4" Nozzle Pack for 1/2" (4 pcs)	10
41417	1/8" BSPT/PT Pack (4 pcs)	8	46449	1/4" AR Swivel Nozzle 40 (20 pcs)	16	51807	1½" Flare Nozzle Pack (2 pcs)	10
41418	1/4" BSPT/PT Pack (4 pcs)	8	46450	1/4" AR Swivel Nozzle 60 (20 pcs)	16	51808	1/2" Y Fitting Pack (2 pcs)	10
41470	1/16" 90° Nozzle Pack (4 pcs)	8	49420	1/4" Segments (25 ft box)	8	51809	2½" Flare Nozzle Pack (2 pcs)	10
41471	1/8" 90° Nozzle Pack (4 pcs)	8	49421	1/4" 50 Foot Coil	8	51811	1/2" Double Socket Pack (4 pcs)	10
41472	1/4" 90° Nozzle Pack (4 pcs)	8	49422	1/16" Nozzle (50 pcs)	8	51821	1/2" to 1/4" Adapter Pack (2 pcs)	10
41473	1/4" 90° Spray Bar (2 pcs)	8	49423	1/8" Nozzles (50 pcs)	8	51822	1/2" to 1/4" Y Reducer Pack (2 pcs)	10
41474	90 Degree Nozzle Assortment	8	49424	1/4" Nozzles (50 pcs)	8	51823	3/8" SAE Flare Nut Adapter (4 pcs)	10
41475	1/4" Extended Element Kit	8	49425	1/8" NPT (50 pcs)	8	51824	1/2" Elbow Pack (2 pcs)	10,13

# PART NUMBER INDEX

Part No.	Description	Page	Part No.	Description	Page	Part No.	Description	Page
51825	1/2" T Fitting (2 pcs)	11,13	59863	1/2" Nozzle (50 pcs)	10	61517	3/4" Female NPT Valve (2 pcs)	12
51826	3/8" BSPT Connector (4 pcs)	10	59864	3/8" NPT Connector (50 pcs)	10	61518	3/4" In-line Valve (2 pcs)	12
51827	1/2" BSPT Connector (4 pcs)	10	59865	1/2" NPT Connector (50 pcs)	10	69540	3/4" Segments (25 feet)	12
51828	1/4" 90° Nozzle for 1/2" (4 pcs)	10	59866	1/4" Nozzle for 1/2" Hose (50 pcs)	10	69541	3/4" 50 foot Coil	12
51829	3/8" 90° Nozzle Pack (4 pcs)	10	59867	1/4" Flare Nozzle (20 pcs)	10	69542	3/4" Nozzle (50 pcs)	12
51830	1/2" 90° Nozzle Pack (4 pcs)	10	59868	1/2" Y Fitting (20 pcs)	10	69543	5/8" Nozzle (50 pcs)	12
51831	1/2" 90° Spray Bar (2 pcs)	10	59869	1/2" to 1/4" Adapter (20 pcs)	10	69545	3/4" NPT Connector (50 pcs)	12
51832	1/2" 90° Nozzle Kit	10	59870	1/2" to 1/4" Y Reducer (20 pcs)	10	69547	3" Flare Nozzle (20 pcs)	12
51833	1/2" Extended Element (4 pcs)	10	59871	2/4" Flare Nozzle (20 pcs)	10	69548	3/4" to 1/2" Adapter (20 pcs)	12
51834	1/2" Element Clamp (4 pcs)	10	59872	1/2" Double Socket (20 pcs)	10	69549	3/4" BSPT/PT Connectors (50 pcs)	12
51835	1/2" Extended Element Kit	10	59873	3/8" SAE Flare Nut for 1/2" (20 pcs)	10	69551	3/4" Y Fitting (20 pcs)	12
51836	1/2" Side Flow Nozzle (4 pcs)	11	59874	1/2" Elbow (20 pcs)	10,13	69552	3/4" to 1/2" Y Reducer (20 pcs)	12
51837	1/2" Circle Flow Nozzle Kit	10	59875	1/2" T Fitting (20 pcs)	10,13	69554	3/4" Double Socket (20 pcs)	12
51838	1/2" End Caps (4 pcs)	11	59876	3/8" BSPT Connector (50 pcs)	10	69555	3/4" Elbow (20 pcs)	12
51840	1/2" Flat Slot 80 Nozzle (4 pcs)	11	59877	1/2" BSPT Connector (50 pcs)	10	69556	3/4" Male NPT Valve (10 pcs)	12
51841	1/2" Flat Slot 125 Nozzle (4 pcs)	11	59878	1/4" 90° Nozzle for 1/2" (20 pcs)	10	69557	3/4" Female NPT Valve (10 pcs)	12
51842	1/2" Flat 5 Hole Nozzle (4 pcs)	11	59879	3/8" 90° Nozzle (20 pcs)	10	69558	3/4" In-line Valve (10 pcs)	12
51843	1/2" Flat 7 Hole Nozzle (4 pcs)	11	59880	1/2" 90° Nozzle (20 pcs)	10	69561	3/4" Shield Mounting Elbow (20 pcs)	12
51844	1/2" Flat Nozzle Assortment Pack	11	59881	1/2" 90° Spray Bar Nozzle (20 pcs)	10	69563	3/4" Fixed Mount (20 pcs)	12
51845	2 1/2" Swivel Nozzle 75 for 1/2" (2 pcs)	11	59883	1/2" Extended Element (20 pcs)	10	78001	1/4" Assembly Pliers (1 pc)	9
51846	1/2" Magnetic Base (1 pc)	11	59884	1/2" Element Clamp (20 pcs)	10	78002	1/2" Assembly Pliers (1 pc)	11
51847	1 1/4" Straight Flow Nozzle (2 pcs)	11	59885	1/2" End Cap (20 pcs)	11	78003	1/4" & 1/2" Plier Set	9,11
51848	1 1/2" Straight Flow Nozzle (2 pcs)	11	59887	1/2" 4 way Cross (20 pcs)	11	78004	3/4" Hose Assembly Pliers	12
51849	1/2" Nozzle-Rama Pack	11	59889	1/2" Side Flow Nozzle (20 pcs)	11	81201	9 elements 2.5" ID (1 foot segment)	15
51895	1/2" Fixed Mount (2 pcs)	11	59890	1/2" Flat Slot 80 Nozzle (20 pcs)	11	81202	18 elements 2.5" ID (2 - one ft segs)	15
51896	1/2" Extended Elbows (4 pcs)	11	59891	1/2" Flat Slot 125 Nozzle (20 pcs)	11	81203	4.5" Round Nozzle (1 pc)	15
56801	1/2" AR Segment Pack (2 pcs)	16	59892	1/2" Flat 5 Hole Nozzle (20 pcs)	11	81204	6" X 3.5" Rectangular Nozzle (1 pc)	15
56802	3/8" AR Nozzle Pack (4 pcs)	16	59893	1/2" Flat 7 Hole Nozzle (20 pcs)	11	81205	Tapered Oval Nozzle (1 pc)	15
56803	1/2" AR Nozzle Pack (4 pcs)	16	59895	2 1/2" Swivel Noz. 75 for 1/2" (20 pcs)	11	81206	3" PVC Adapter (1 pc)	15
56804	3/8" AR NPT Connector (4 pcs)	16	59896	1/2" Fixed Mount (20 pcs)	11	81207	3" Sheet Metal Duct Adapter (1 pc)	15
56805	1/2" AR NPT Connector (4 pcs)	16	59897	1 1/4" Straight Flow Nozzle (20 pcs)	11	81208	2.5" Slide Valve (1 pcs)	15
56806	1/4" AR Nozzle for 1/2" (4 pcs)	16	59898	1 1/2" Straight Flow Nozzle (20 pcs)	11	81209	Shop Vac. Hose Adpt. w/tab (1 pc)	15
56807	1 1/4" AR Flare Nozzle (2 pcs)	16	59899	1/2" Extended Elbows (20 pcs)	11	81210	Shop Vacuum Adapter (1 pc)	15
56808	1/2" AR Y Fitting (2 pcs)	16	60513	3/4" Hose Assembly Kit	12	81301AS	9 Elements AS 2.5" ID (1 foot)	15
56821	1/2" to 1/4" AR Adapter Pack (2 pcs)	16	60525	6" X 8" Quick-Set Shield™ Kit	12	81302AS	18 Elements AS 2.5" ID (2 feet)	15
56822	1/2" to 1/4" Y AR Reducer (2 pcs)	16	60526	7 1/2" X 10" Quick Set Shield™ Kit	12	81303AS	4.5" AS Round Nozzle (1 pc)	15
56824	1/2" AR Elbow (2 pcs)	16	60527	8 1/2" X 12" Quick Set Shield™ Kit	12	81304AS	6" X 3.5" AS Rectangular Nozzle (1pc)	15
56825	1/2" AR T Fitting (2 pcs)	16	60528	6" X 8" Replacement Shield	12	81305AS	AS Tapered Oval Nozzle (1 pc)	15
56863	1/2" AR Hose Assembly Kit	16	60529	7 1/2" X 10" Replacement Shield	12	81307AS	3" AS Sheet Metal Adapter (1 pc)	15
57860	1/2" AR Segments (25 feet)	16	60530	8 1/2" X 12" Replacement Shield	12	81308AS	2.5" AS Slide Valve (1 pc)	15
57861	1/2" AR Coil (50 feet)	16	60531	Shield Mounting Elbow (2 pcs)	12	89220	180 elem'ts 2.5" ID (20 - one ft segs)	15
57862	3/8" AR Nozzles (50 pcs)	16	60532	Magnetic Base (1 pc)	12	89223	4.5" Round Nozzles (10 pcs)	15
57863	1/2" AR Nozzles (50 pcs)	16	60533	3/4" Fixed Mounts (2 pcs)	12	89224	6" X 3.5" Rectangular Nozzle (10 pcs)	15
57864	3/8" AR NPT Connector (50 pcs)	16	61501	3/4" Segment Pack (2 pcs)	12	89225	Tapered Oval Nozzle (10 pcs)	15
57865	1/2" AR NPT Connector (50 pcs)	16	61502	3/4" Nozzle Pack (4 pcs)	12	89226	3" PVC Adapter (10 pcs)	15
57866	1/4" AR Nozzles for 1/2" (50 pcs)	16	61503	5/8" Nozzle Pack (4 pcs)	12	89227	3" Sheet Metal Duct Adpt.(10 pcs)	15
57867	1 1/4" AR Flare Nozzle (20 pcs)	16	61505	3/4" NPT Connector (4 pcs)	12	89228	2.5" Slide Valve (10 pcs)	15
57868	1/2" AR Y Fitting (20 pcs)	16	61507	3" Flare Nozzle (2 pcs)	12	89229	Shop Vac Hose Adpt w/tab (10 pcs)	15
57869	1/2" to 1/4" AR Adapter Pack (20 pcs)	16	61508	3/4" to 1/2" Adapter (2 pcs)	12	89230	Shop Vacuum Adapter (10 pcs)	15
57870	1/2" to 1/4" Y AR Reducer (20 pcs)	16	61509	3/4" BSPT Connector (4 pcs)	12	89320AS	180 Elements AS 2.5" ID (20 feet)	15
57874	1/2" AR Elbow (20 pcs)	16	61511	3/4" Y Fitting (2 pcs)	12	89323AS	4.5" AS Round Nozzle (10 pcs)	15
57875	1/2" AR T Fitting (20 pcs)	16	61512	3/4" to 1/2" Y Reducer (2 pcs)	12	89324AS	6" X 3.5" AS Rect. Nozzle (10 pcs)	15
59860	1/2" Segments (25 foot box)	10	61514	3/4" Double Socket (4 pcs)	12	89325AS	AS Tapered Oval Nozzle (10 pcs)	15
59861	1/2" 50 foot Coil	10	61515	3/4" Elbow (2 pcs)	12	89327AS	3" AS Sheet Metal Adapter (10 pcs)	15
59862	3/8" Nozzle (50 pcs)	10	61516	3/4" Male NPT Valve (2 pcs)	12	89328AS	2.5" AS Slide Valve (10 pcs)	15

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