

Professional Plumbing Products Catalog

Professional Plumbing



Introduction

Registered Trademarks

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UL® is a registered trademark of Underwriters Laboratories Inc.

CSA® is a registered trademark of Canadian Standards Association.

Other brand and product names are trademarks or registered trademarks of their respective holders.

NOTICE:

Performance and dimensional data presented in this catalog are for planning purposes only and are subject to change without notice.

Consult your authorized Barnes distributor for specific details and the latest information, or call Crane Pumps & Systems, Inc. direct at (937) 778-8947.

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Introduction

This catalog is serialized and will be registered to you and/or your firm upon receipt of the registration card in the front of the binder. Catalog pages are subject to change without notice. As specifications are updated and new products introduced, new updated pages will be mailed to holders of this catalog.

IT IS IMPORTANT THAT YOU RETURN THE REGISTRATION CARD PROMPTLY!

WITHOUT THE CARD, WE CAN NOT KEEP YOUR CATALOG CURRENT. Equally important, when you receive new and updated material, promptly place the material in the proper section and page sequence. Each page will have a page block that contains the SECTION, PAGE NUMBER, and DATE.

This catalog is contains the following sections;

Introduction
Warranty and Service

Section A: Sump Pumps

Section B: Submersible Effluent Pumps Section C: Submersible Non-Clog Pumps

Section D: Panels & Controls Section E: Basins & Accessories Section F: Grinder Pumps

Section H: Fountain Pumps

Section I: Portable Submersible Pumps



PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

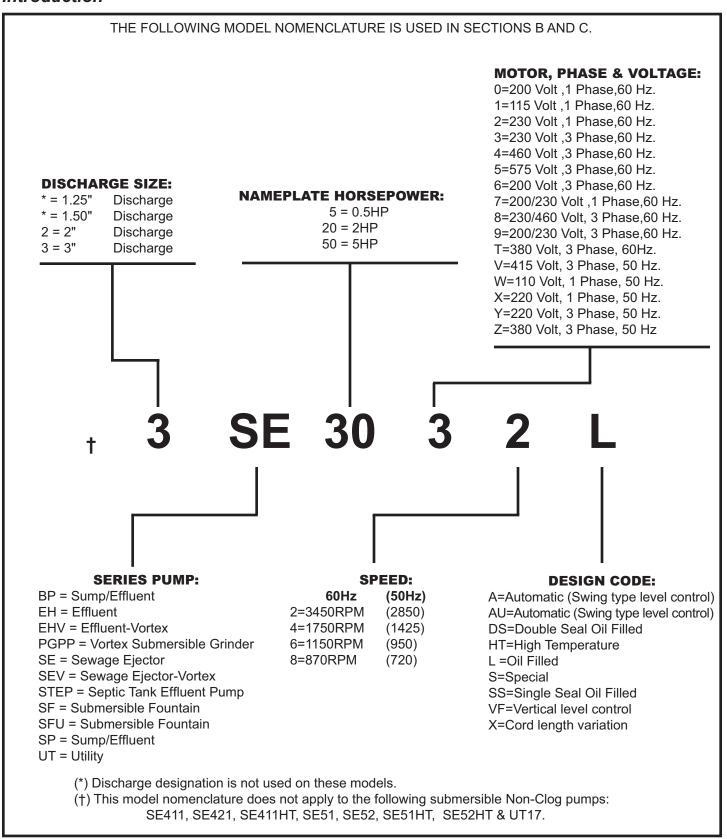
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Model Nomenclature Chart

For Submersible Pumps



Introduction



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Standard Terms and Conditions

Introduction

OUR ACCEPTANCE OF YOUR ORDER IS EXPRESSLY CONDITIONED ON THE GENERAL TERMS AND CONDITIONS SET FORTH BELOW AND ALL TERMS STATED ON THE FACE OF THIS FORM. THE CONTRACT SHALL NOT INCLUDE ANY DEVIATING OR ADDITIONAL TERMS UNLESS EXPRESSLY AGREED TO IN WRITING AND SIGNED BY AN OFFICER OF OUR COMPANY.

PRICES: All prices are subject to change without notice and all shipments will be invoiced at the price in effect at the time of shipment, except when otherwise agreed to in writing by our authorized representative. Published prices are for products of our standard design and construction and any item not covered by the most recent published price list must be referred to us for special pricing. Prices do not include freight. Weights shown in price lists are approximate shipping weights. The amount of any applicable present or future tax or other government charge upon the production, sale, shipment or use of goods ordered or sold is not in the price and will be added to billing unless you provide us with an appropriate exemption certificate.

QUOTATIONS: Prices quoted by us are valid for 30 days from date of quotation unless we have otherwise specified in writing. Clerical errors on quotations are subject to our correction and such errors will not be binding.

CANCELLATION AND REVISIONS: No purchase orders accepted and acknowledged by us may be cancelled or revised by you except with our prior written consent and upon payment of reasonable cancellation charges compensating us for all costs incurred in work done and material purchased. We reserve the right to determine what constitutes reasonable cancellation charges.

RETURN OF EQUIPMENT: No equipment shall be returned to us without first obtaining a written Returned Goods Authorization and shipping instructions from us. The returner must prepay the charges in full for transportation to our factory. Credit allowed for new, undamaged equipment of current standard design will be 80% of the invoiced price or current billing price, whichever is less. The minimum value of returned product is \$250 invoiced price or current billing price. Equipment which has been used, however slight, will not be accepted. Authorization will not be given for return of equipment, (1) which would, in our opinion, result in an excess in the amount of stock we normally carry, (2) not invoiced within the last 12 months, or (3) which is non-standard and manufactured specifically to a buyer's specifications. For non-standard equipment not of our manufacture, the only credit allowed will be such credit as may be allowed by the manufacturer of such equipment. Equipment must be returned within 30 days of the issuance of the Returned Goods Authorization. No item with a net value of less than \$35.00 will be authorized for return. Items not available for return are those that have a shelf life and hardware items. Unauthorized returns may be refused and\or returned freight collect.

CREDIT AND PAYMENT: Payment is due as noted on our invoice. Overdue accounts are subject to a service charge. All orders are subject to approval of our credit department and we may require full or partial payment in advance. Pro rata payments shall become due as shipments are made. If the shipments are delayed by you for any cause, payments shall become due from date on which we are prepared to make shipment and storage shall be at your risk and expense. If manufacture is delayed by you for any cause, a partial payment based upon the proportion of the order completed shall become due from the date on which we are notified of the delay.

SECURITY INTEREST: We shall have a lien on all goods sold as security for payment on the invoice price, and upon request you shall provide and execute a financing statement showing such lien.

DELIVERY: We will make reasonable effort to meet your delivery requirement provided you provide us, on a timely basis, all approvals, technical data, instructions and credit approval requirements needed for release of the shipment. However, all delivery and/or shipment dates are estimates only unless we have expressly guaranteed delivery of such dates in writing at your specific request. In no event shall we have any liability if delivery is delayed by strikes, labor disturbances, material shortages, plant calamities or disaster, acts of God, government actions, civil disturbance, the failure of any pre-supposed condition of the contract, withholding shipments due to credit clearance, or other interferences beyond our reasonable control, and the date of delivery shall be extended for a period of time equal to the time lost because of any such reason. Emergency Orders and Rush Orders: Contact the Sales Department for applicable handling fees.

SHIPPING: Unless you specify in writing and we acknowledge in writing, (A) goods will be boxed or crated as we may deem proper for protection against normal handling and for domestic shipment, (B) routing and manner of shipment will be at our discretion, and may be insured at your expense. An extra charge will be made for special handling. All shipments are F.O.B. point of manufacture. Delivery of goods to the initial carrier will constitute delivery to you and all goods will be shipped at your risk. A claim for loss or damage in transit must be entered with the carrier and prosecuted by you. Acceptance of material from a common carrier constitutes a waiver of any claims against us for delay, damage or loss.

GOVERNING LAW: It is understood and agreed that these Terms and Conditions of Sale shall be interpreted under and pursuant to the laws of the State of Ohio; you agree that any action at law or suit which is related to any contract of sale brought against us shall be filed in a federal or state court located in the State of Ohio.

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Standard Terms and Conditions



Introduction

LIMITED WARRANTY: We warrant to our immediate customer and to the ultimate consumer that products of our manufacture will be free of defects in material and workmanship under normal use and service for the following time periods, when installed and maintained in accordance with our instructions.

Pump Products: One (1) year from date of installation or (24) twenty-four months from date of shipment, whichever occurs first. (Pump Products include pump ends only. Motors are warranted by their respective manufacturer. Submersible pump motors are covered under the standard CP&S one year warranty with the exception of those utilizing Reliance motors for which the Reliance motor warranty applies.) Cleaning Products: Twelve (12) months from date of installation or eighteen (18) months from date of shipment, whichever occurs first. As used herein, "the ultimate consumer" is defined as the purchaser who first uses the product after its initial installation or, in the case of product designed for nonpermanent installation, the first owner who used the product. It is the purchaser's or any sub-vendee's obligation to make known to the ultimate consumer the terms and conditions of this warranty. This warranty gives you specific legal rights, and there may also be other rights which vary from state to state. In the event the product is covered by the Federal Consumer Product Warranties Law (1) the duration of any implied warranties associated with the product by virtue of said law is limited to the same duration as stated herein, (2) this warranty is a LIMITED WARRANTY, and (3) no claims of any nature whatsoever shall be made against us, until the ultimate consumer, his successor, or assigns, notifies us in writing of the defect, and delivers the product and/or defective part(s) freight prepaid to our factory or nearest authorized service station. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply. THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF ANY AND ALL WARRANTIES WITH RESPECT TO ANY PRODUCT SHALL BE TO REPLACE OR REPAIR AT OUR ELECTION, F.O.B. POINT OF MANUFACTURE OR AUTHORIZED REPAIR STATION, SUCH PRODUCTS AND/OR PARTS AS PROVEN DEFECTIVE. THERE SHALL BE NO FURTHER LIABILITY, WHETHER BASED ON WARRANTY, NEGLIGENCE OR OTHERWISE. Unless expressly stated otherwise, guarantees in the nature of performance specifications furnished in addition to the foregoing material and workmanship warranties on a product manufactured by us, if any, are subject to laboratory tests corrected for field performance. Any additional guarantees, in the nature of performance specifications must be in writing and such writing must be signed by our authorized representative. Due to inaccuracies in field testing if a conflict arises between the results of field testing conducted by or for user, and laboratory tests corrected for field performance, the latter shall control. Components or accessories supplied by us but manufactured by others are warranted only to the extent of and by the terms and conditions of the original manufacturer's warranty. RECOMMENDATIONS FOR SPECIAL APPLICATIONS OR THOSE RESULTING FROM SYSTEMS ANALYSES AND EVALUATIONS WE CONDUCT WILL BE BASED ON OUR BEST AVAILABLE EXPERIENCE AND PUBLISHED INDUSTRY INFORMATION. SUCH RECOMMENDATIONS DO NOT CONSTITUTE A WARRANTY OF SATISFACTORY PERFORMANCE AND NO SUCH WARRANTY IS GIVEN.

This warranty shall not apply when damage is caused by (a) improper installation, (b) improper voltage (c) lightning (d) sand or other abrasive material (e) scale or corrosion build-up due to excessive chemical content. Any modification of the original equipment will also void the warranty. We will not be responsible for loss, damage or labor cost due to interruption of service caused by defective parts. Neither will we accept charges incurred by others without our prior written approval.

This warranty is void if our inspection reveals the product was used in a manner inconsistent with normal industry practice and\or our specific recommendations. The purchaser is responsible for communication of all necessary information regarding the application and use of the product.

UNDER NO CIRCUMSTANCES WILL WE BE RESPONSIBLE FOR ANY OTHER DIRECT OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, LOST INCOME, LABOR CHARGES, DELAYS IN PRODUCTION, IDLE PRODUCTION, WHICH DAMAGES ARE CAUSED BY ANY DEFECTS IN MATERIAL AND\OR WORKMANSHIP AND\OR DAMAGE OR DELAYS IN SHIPMENT. THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

No rights extended under this warranty shall be assigned to any other person, whether by operation of law or otherwise, without our prior written approval.

If any litigation is commenced between the parties hereto for the enforcement of any rights hereunder, the successful party in subject litigation shall be entitled to receive from the unsuccessful party all costs incurred in connection therewith, including a reasonable amount for attorney's fees.

YOUR ACCEPTANCE OF ANY GOODS SUPPLIED BY US, OR ON OUR BEHALF, SHALL, WITHOUT LIMITATION CONSTITUTE ACCEPTANCE OF ALL TERMS AND CONDITIONS STATED ABOVE.

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Warranty and Service

Please Read This Before Installing Or Operating Pump. This information is provided for SAFETY and to PREVENT EQUIPMENT PROBLEMS. To help recognize this information, observe the following symbols:



IMPORTANT! Warns about hazards that can result in personal injury or Indicates factors concerned with assembly, installation, operation, or maintenance which could result in damage to the machine or equipment if ignored.

CAUTION! Warns about hazards that can or will cause minor personal injury or property damage if ignored. Used with symbols below.

WARNING! Warns about hazards that can or will cause serious personal injury, death, or major property damage if ignored. Used with symbols below.



Hazardous fluids can cause fire or explosions, burnes or death could result



Extremely hot - Severe burnes can occur on contact.



Biohazard can cause serious personal injury.



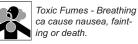
Hazardous fluids can Hazardous pressure, eruptions or explosions could cause personal injury or property damage.



Rotating machinery Amputation or severe laceration can result.



Hazardous voltage can shock, burn or cause death.





Eye protection required

Only qualified personnel should install, operate and repair pump. Any wiring of pumps should be performed by a qualified electrician.



WARNING! - To reduce risk of electrical shock, pumps and control panels must be properly grounded in accordance with the National Electric Code (NEC) or the Canadian Electrical Code (CEC) and all applicable state, province, local codes and ordinances.

WARNING! - To reduce risk of electrical shock, always disconnect the pump from the power source before handling or servicing. Lock out power and tag.





WARNING! Operation against a closed discharge valve will cause premature bearing and seal failure on any pump, and on end suction and self priming pump the heat build may cause the generation of

steam with resulting dangerous pressures. It is recommended that a high case temperature switch or pressure relief valve be installed on the pump body.



CAUTION! Never operate a pump with a plug-in type power cord without a ground fault circuit interrupter.





CAUTION! Pumps build up heat and pressure during operation-allow time for pumps to cool before handling or servicing.



WARNING! - DO NOT pump hazardous materials (flammable, caustic, etc.) unless the pump is specifically designed and designated to handle them.



Do not block or restrict discharge hose, as discharge hose may whip under pressure.



WARNING! - DO NOT wear loose clothing that may become entangled in the impeller or other moving parts.

WARNING! - Keep clear of suction and discharge openings. DO NOT insert fingers in pump with power connected.



Always wear eye protection when working on pumps.



Make sure lifting handles are securely fastened each time before lifting. **DO NOT** operate pump without safety devices in place. Always replace safety devices that have been removed during service or repair. Secure the pump in its operating position so it can not tip over, fall or slide.



DO NOT exceed manufacturers recommendation for maximum performance, as this could cause the motor to overheat.

DO NOT remove cord and strain relief. Do not connect conduit to pump.



WARNING! Cable should be protected at all times to avoid punctures, cut, bruises and abrasions - inspect frequently. Never handle connected power cords with wet hands.



WARNING! To reduce risk of electrical shock, all wiring and junction connections should be made per the NEC or CEC and applicable state or province and local codes. Requirements may vary depending on usage and location.

WARNING! Submersible Pumps are not approved for use in swimming pools, recreational water installations, decorative fountains or any installation where human contact with the pumped fluid is common.



WARNING! Products Returned Must Be Cleaned, Sanitized, Or Decontaminated As Necessary Prior To Shipment, To Insure That Employees Will Not Be Exposed To Health Hazards In Handling Said Material. All Applicable Laws And Regulations Shall Apply.

Bronze/brass and bronze/brass fitted pumps may contain lead levels higher than considered safe for potable water systems. Lead is known to cause cancer and birth defects or other reproductive harm. Various government agencies have determined that leaded copper alloys should not be used in potable water applications. For non-leaded copper alloy materials of construction, please contact factory.



IMPORTANT! - Crane Pumps & Systems, Inc. is not responsible for losses, injury, or death resulting from a failure to observe these safety precautions, misuse or abuse of pumps or equipment.



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Warranty and Service

Limited Warranty

We warrant to our immediate customer and to the ultimate consumer that products of our manufacture will be free of defects in material and workmanship under normal use and service for the following time periods, when installed and maintained in accordance with our instructions.

Pump Products: One (1) year from date of installation or (24) twenty-four months from date of shipment, whichever occurs first. Cleaning Products: Twelve (12) months from date of installation or eighteen (18) months from date of shipment, whichever occurs first. As used herein, "the ultimate consumer" is defined as the purchaser who first uses the product after its initial installation or, in the case of product designed for non permanent installation, the first owner who used the product. It is the purchaser's or any sub-vendee's obligation to make known to the ultimate consumer the terms and conditions of this warranty. This warranty gives you specific legal rights, and there may also be other rights which vary from state to state. In the event the product is covered by the Federal Consumer Product Warranties Law (1) the duration of any implied warranties associated with the product by virtue of said law is limited to the same duration as stated herein, (2) this warranty is a LIMITED WARRANTY, and (3) no claims of any nature whatsoever shall be made against us, until the ultimate consumer, his successor, or assigns, notifies us in writing of the defect, and delivers the product and/or defective part(s) freight prepaid to our factory or nearest authorized service station. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply. THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF ANY AND ALL WARRANTIES WITH RESPECT TO ANY PRODUCT SHALL BE TO REPLACE OR REPAIR AT OUR ELECTION, F.O.B. POINT OF MANUFACTURE OR AUTHORIZED REPAIR STATION, SUCH PRODUCTS AND/OR PARTS AS PROVEN DEFECTIVE. THERE SHALL BE NO FURTHER LIABILITY, WHETHER BASED ON WARRANTY, NEGLIGENCE OR OTHERWISE. Unless expressly stated

otherwise, guarantees in the nature of performance specifications furnished in addition to the foregoing material and workmanship warranties on a product manufactured by us, if any, are subject to laboratory tests corrected for field performance. Any additional guarantees, in the nature of performance specifications must be in writing and such writing must be signed by our authorized representative. Due to inaccuracies in field testing if a conflict arises between the results of field testing conducted by or for user, and laboratory tests corrected for field performance, the latter shall control. Components or accessories supplied by us but manufactured by others are warranted only to the extent of and by the terms and conditions of the original manufacturer's warranty. **RECOMMENDATIONS FOR SPECIAL APPLICATIONS OR THOSE RESULTING FROM SYSTEMS**

ANALYSES AND EVALUATIONS WE CONDUCT WILL BE BASED ON OUR BEST AVAILABLE EXPERIENCE AND PUBLISHED INDUSTRY INFORMATION. SUCH RECOMMENDATIONS DO NOT CONSTITUTE A WARRANTY OF SATISFACTORY PERFORMANCE AND NO SUCH WARRANTY IS GIVEN.

This warranty shall not apply when damage is caused by (a) improper installation, (b) improper voltage (c) lightning (d) sand or other abrasive material (e) scale or corrosion build-up due to excessive chemical content. Any modification of the original equipment will also void the warranty. We will not be responsible for loss, damage or labor cost due to interruption of service caused by defective parts. Neither will we accept charges incurred by others without our prior written approval. This warranty is void if our inspection reveals the product was used in a manner inconsistent with normal industry practice and or our specific recommendations. The purchaser is responsible for communication of all necessary information regarding the application and use of the product. UNDER NO CIRCUMSTANCES WILL WE BE RESPONSIBLE FOR ANY OTHER DIRECT OR

CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, LOST INCOME, LABOR CHARGES, DELAYS IN PRODUCTION, IDLE PRODUCTION, WHICH DAMAGES ARE CAUSED BY ANY DEFECTS IN MATERIAL AND\OR WORKMANSHIP AND\OR DAMAGE OR DELAYS IN SHIPMENT. THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

No rights extended under this warranty shall be assigned to any other person, whether by operation of law or otherwise, without our prior written approval.

A Crane Co. Company



Series BP25

1/4" Spherical Solids Handling Manual & Automatic - Submersible

Sump Pumps

DISCHARGE11/2" NPT, Female, Vertical LIQUID TEMPERATURE 77°F (25°C) Continuous

MOTOR HOUSING Cast Iron PUMP BODY & STRAINER Thermoplastic IMPELLER: Design Multi-Vane Material Thermoplastic

SHAFT Carbon Steel

SQUARE RINGS Buna-N

HARDWARE 300 Series Stainless Steel

PAINT Air Dry Enamel

SEAL: Design Single Mechanical, Oil Filled

Material Carbon/Ceramic/Buna-N Hardware -300 Series Stainless

CORD ENTRY...... 10 ft. (3m) Cord with plug and pressure

Gromment for sealing and strain relief

LOWER BEARING:

Design Sleeve

MOTOR: Design Oil Filled

Insulation Class B

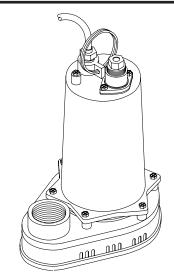
LEVEL CONTROL:

BP25A...... Wide Angle, Mechanical, 10 ft (3m) cord BP25VF...... Vertical Float, PVC, Snap Action,

10 ft (3m) cord.

MINUMUM SUMP DIA:

BP25A...... 18" (457mm) BP25VF..... 11" (279mm)

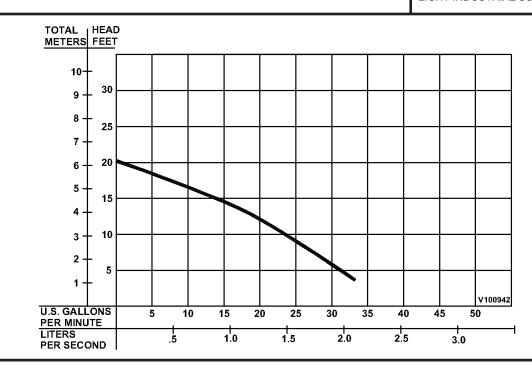


Series: BP25A & BP25VF, 1/4HP, 3450RPM, 60Hz



DESCRIPTION:

GENERAL PURPOSE PUMP FOR RESIDENTIAL AND LIGHT INDUSTRIAL SUMP APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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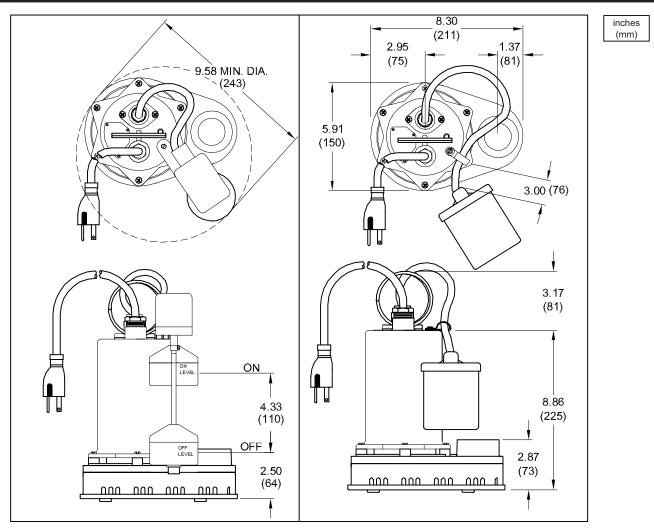
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Series BP25A & BP25VF

1/4" Spherical Solids Handling Manual & Automatic - Submersible



Sump Pumps



Model: BP25VF Model: BP25A

MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
BP25A	100943	1/4	115/1	60	3450	F	7.0	10 ft. (3m)	16/3	SJT
BP25VF	100944	1/4	115/1	60	3450	F	7.0	10 ft. (3m)	16/3	SJT

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- .) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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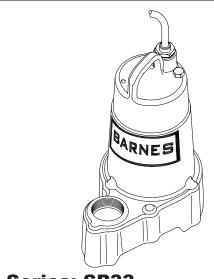




1/2" Spherical Solids Handling Manual & Automatic, Submersible Sump /Effluent

Sump Pumps

DISCHARGE		. 1½" NPT, Female, Vertical
		. 104°F (40°C) Continuous
	ISING	
	& STRAINER	
		. 10 Vane vortex, with pump out vanes on back
		side. Balanced, ISO G6.3
	Material	•
SHAFT		
O-RINGS		
		. 300 Series Stainless Steel
SEAL:		Single Mechanical, Type 21
		. Silicon Carbide/Silicon Carbide/Buna-N
		Hardware -300 Series Stainless
CORD ENTR	Υ	. 10 ft. (3m) or 20 ft. (6m) Cord with plug and
		Pressure Gromment for sealing and strain relief
UPPER BEA	RING	. Single Row, Ball, Oil Lubricated
LOWER BEA	RING	. Single Row, Ball, Oil Lubricated
MOTOR:	Design	
	Insulation	
SINGLE PHA	SE	. Permanent Split Capacitor (PSC).
		Includes thermal overload protection in motor
LEVEL CONT	TROL:	·
	SP33	. None
	SP33A	. Wide Angle, Mechanical, 10 ft (3m) cord
		or 20 ft (6m) cord
	SP33VF	. Vertical Float, PVC, Snap Action,
		10 ft (3m) cord or 20 ft. (6m) cord
	SP33D	. Diaphragm switch, pressure operated,
		Snap Action, normally open, 10 Ft. (3m) cord
MINUMUM S		
	SP33A	. 18" (457mm)
	SP33, SP33VF	
	SP33D	11" (279mm)

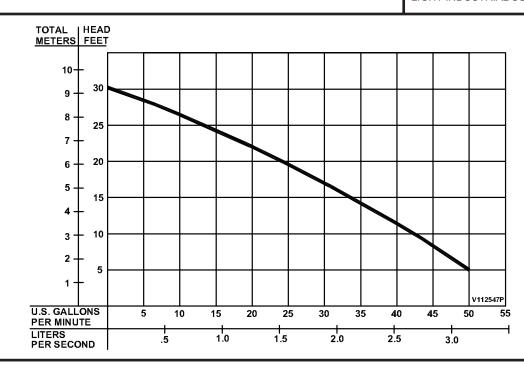


Series: SP33, 1/3HP, 3450RPM, 60Hz



DESCRIPTION:

GENERAL PURPOSE PUMP FOR RESIDENTIAL AND LIGHT INDUSTRIAL SUMP APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance



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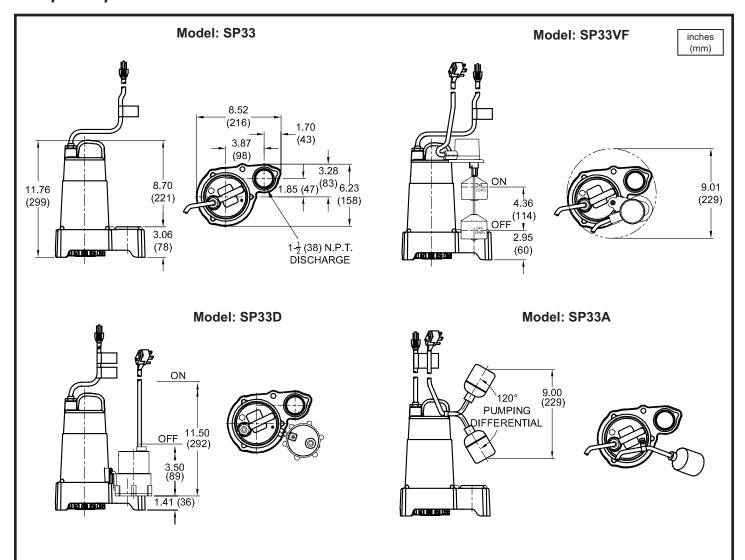
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Series SP33

1/2" Spherical Solids Handling
Manual & Automatic, Submersible Sump /Effluent



Sump Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
SP33	112547	1/3	120/1	60	3450	В	5.8	10 ft. (3m)	14/3	SJTOW
SP33X	112548	1/3	120/1	60	3450	В	5.8	20 ft. (6m)	14/3	SJTOW
SP33A	112549	1/3	120/1	60	3450	В	5.8	10 ft. (3m)	14/3	SJTOW
SP33AX	112550	1/3	120/1	60	3450	В	5.8	20 ft. (6m	14/3	SJTOW
SP33VF	112551	1/3	120/1	60	3450	В	5.8	10 ft. (3m)	14/3	SJTOW
SP33VFX	112552	1/3	120/1	60	3450	В	5.8	20 ft. (6m	14/3	SJTOW
SP33D	118371	1/3	120/1	60	3450	В	5.8	10 ft. (3m)	14/3	SJTOW

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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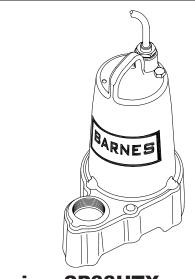
Series SP33HTX

High Temperature - 1/2" Spherical Solids Handling Manual & Automatic, Submersible Sump /Effluent

Sump Pumps

DISCHARGE		1½" NPT, Female, Vertical
LIQUID TEMP	PERATURE	185°F (85°C) Continuous, Fully Submerged
MOTOR HOU	SING	. Cast Iron
PUMP STRAI	NER	. Stainless
IMPELLER:	Design	10 Vane vortex, with pump out vanes on back
	-	side. Balanced, ISO G6.3
	Material	Cast Iron
SHAFT		. Stainless Steel
O-RINGS		Buna-N
HARDWARE		300 Series Stainless Steel
PAINT		Air Dry Enamel
SEAL:	Design	Single Mechanical, Type 21
	Material	Silicon Carbide/Silicon Carbide/Buna-N
		Hardware -300 Series Stainless
CORD ENTR	Y	20 ft. (6m) Cord with plug and Pressure
		Gromment for sealing and strain relief
UPPER BEAI	RING	Single Row, Ball, Oil Lubricated
LOWER BEA		Single Row, Ball, Oil Lubricated
MOTOR:	Design	Oil Filled
	Insulation	. Class B
SINGLE PHA	SE	Permanent Split Capacitor (PSC).
		Includes thermal overload protection in motor
MINUMUM SI	JMP DIA:	

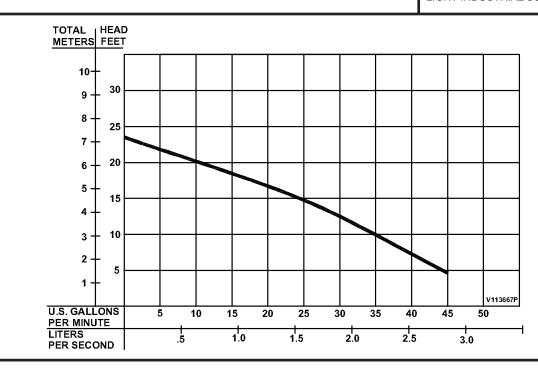
SP33HT..... 12" (305mm)



Series: SP33HTX 1/3HP, 3450RPM, 60Hz

DESCRIPTION:

GENERAL PURPOSE PUMP FOR RESIDENTIAL AND LIGHT INDUSTRIAL SUMP APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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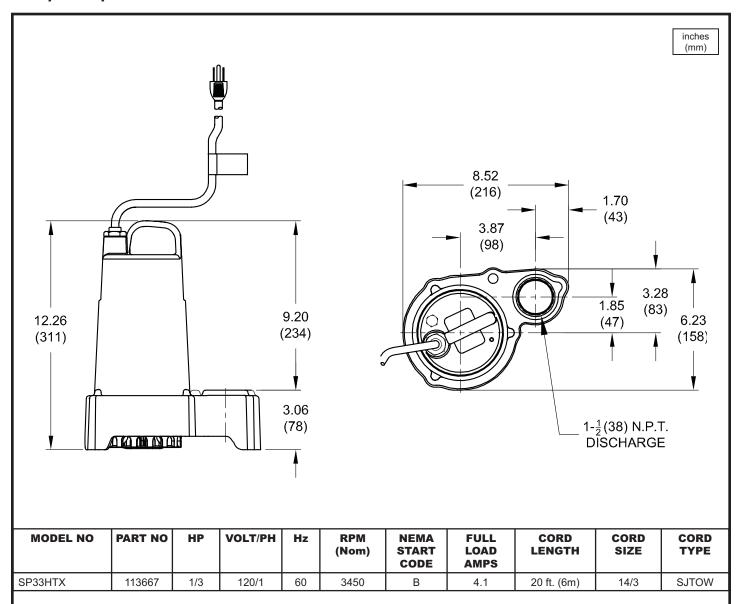
SECTION A PAGE 5 DATE 4/04

Series SP33HTX

High Temperature - 1/2" Spherical Solids Handling Manual & Automatic, Submersible Sump /Effluent



Sump Pumps



IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 3.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE
- 4.) MUST USE A **HIGH TEMPERATURE** WIDE ANGLE LEVEL CONTROL IN HIGH TEMPERATURE APPLICATIONS.

SECTION A PAGE 6 DATE 4/04





Series SP33VFAL

1/2" Spherical Solids Handling Automatic w/Alarm, Submersible Sump /Effluent

Sump Pumps

DISCHARGE1½" NPT, Female, Vertical LIQUID TEMPERATURE 104°F (40°C) Continuous MOTOR HOUSING Cast Iron PUMP STRAINER Thermoplastic side. Balanced, ISO G6.3 Material Cast Iron SHAFT Stainless Steel O-RINGS Buna-N HARDWARE 300 Series Stainless Steel PAINT Air Dry Enamel SEAL: Design Single Mechanical, Type 21 Material Silicon Carbide/Silicon Carbide/Buna-N Hardware -300 Series Stainless CORD ENTRY...... 10 ft. (3m) or 20 ft. (6m) Cord with plug and Pressure gromment for sealing and strain relief UPPER BEARING...... Single Row, Ball, Oil Lubricated LOWER BEARING...... Single Row, Ball, Oil Lubricated MOTOR: DesignOil Filled

MINUMUM SUMP DIA 12" (305mm)

SINGLE PHASE...... Permanent Split Capacitor (PSC).

LEVEL CONTROL Vertical flaot, PVC, snap action, 10 ft (3m)

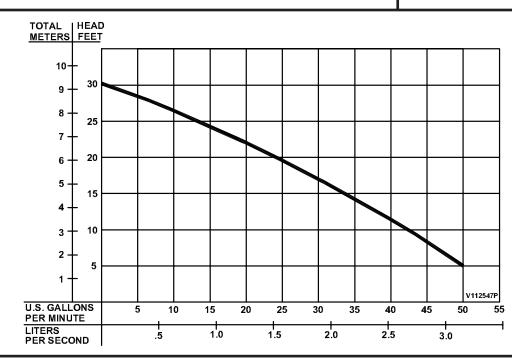
ARNES

Series: SP33VFAL, 1/3HP, 3450RPM, 60Hz



DESCRIPTION:

GENERAL PURPOSE PUMP FOR RESIDENTIAL AND LIGHT INDUSTRIAL SUMP APPLICATIONS



Includes thermal overload protection in motor

or 20 ft. (6m) cord and integrated battery operated alarm (P/N: 112915) with 8 ft. (2.4m) cord. (See Section D page 9A for Alarm)

Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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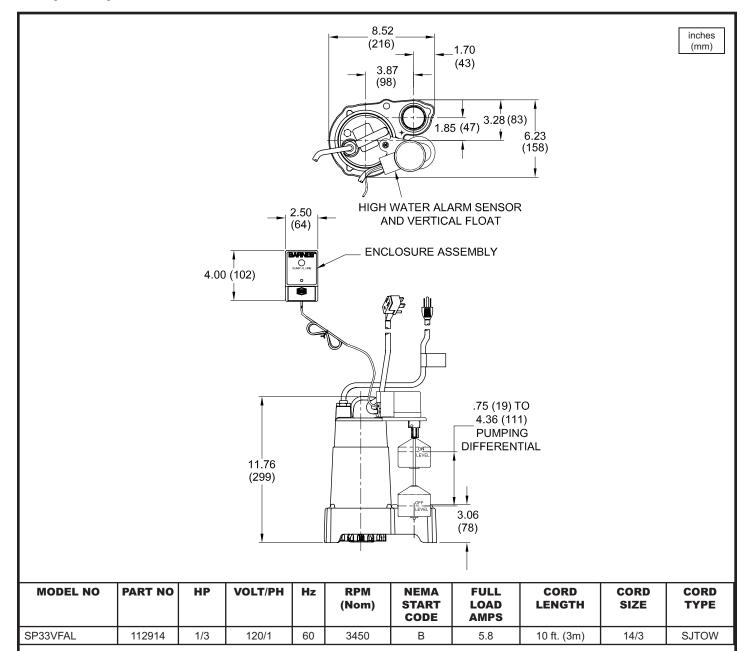
SECTION A PAGE 7 DATE 4/04

Series SP33VFAL

1/2" Spherical Solids Handling Automatic w/Alarm, Submersible Sump /Effluent



Sump Pumps



IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION A PAGE 8 DATE 4/04





www.cranepumps.com

Series SP50

1/2" Spherical Solids Handling Manual & Automatic, Submersible Sump /Effluent

Sump Pumps

MOTOR HOUSING Cast Iron
PUMP STRAINER Thermoplastic

IMPELLER: Design 10 Vane vortex, with pump out vanes on back

side. Balanced, ISO G6.3

 Material
 Cast Iron

 SHAFT
 Stainless Steel

 O-RINGS
 Buna-N

HARDWARE 300 Series Stainless Steel

PAINT Air Dry Enamel
SEAL: Design Single Mechanical

Design Single Mechanical, Type 21

MaterialSilicon Carbide/Silicon Carbide/Buna-N Hardware -300 Series Stainless

Gromment for sealing and strain relief

MOTOR: Design Oil Filled Insulation...... Class B

SINGLE PHASE...... Permanent Split Capacitor (PSC).

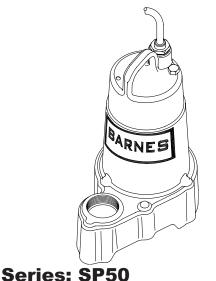
Includes thermal overload protection in motor

LEVEL CONTROL

SP50X.....None

SP50AX...... Wide angle, Mechanical, 20 ft. (6m) cord SP50VFX Vertical float, PVC, snap action, 20 ft (6m) cord

MINUMUM SUMP DIA:

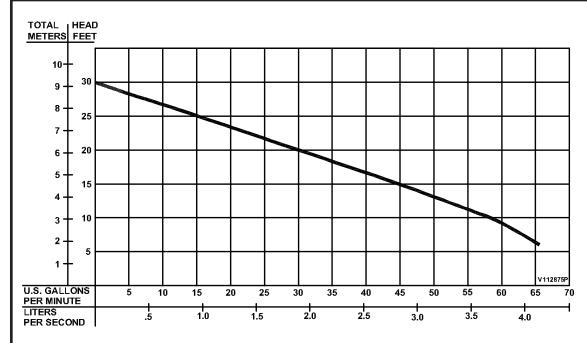


Series: SP50 1/2HP, 3450RPM, 60Hz



DESCRIPTION:

GENERAL PURPOSE PUMP FOR RESIDENTIAL AND LIGHT INDUSTRIAL SUMP APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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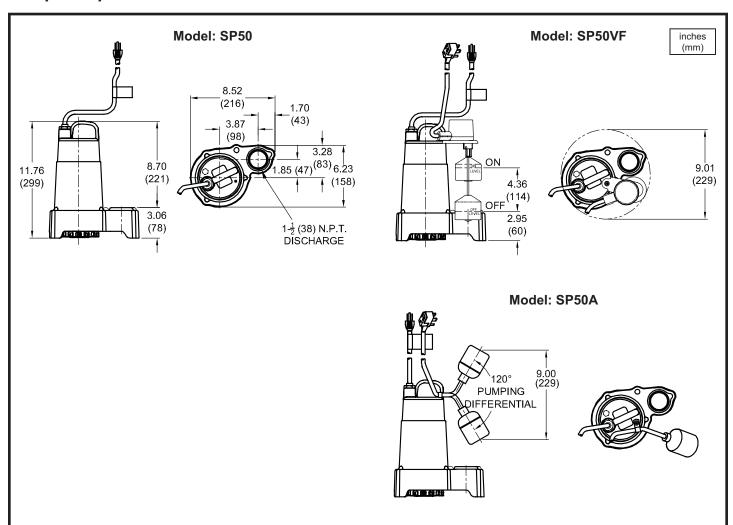
SECTION A PAGE 9 DATE 4/04

Series SP50

1/2" Spherical Solids Handling Manual & Automatic, Submersible Sump /Effluent



Sump Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
SP50X	112875	1/2	120/1	60	3450	А	6.8	20 ft. (6m)	14/3	SJTOW
SP50AX	112877	1/2	120/1	60	3450	А	6.8	20 ft. (6m)	14/3	SJTOW
SP50VFX	112879	1/2	120/1	60	3450	Α	6.8	20 ft. (6m)	14/3	SJTOW

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- .) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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Series SP75X

1/2" Spherical Solids Handling Manual & Automatic, Submersible Sump /Effluent

Sump Pumps

DISCHARGE1½" NPT, Female, Vertical LIQUID TEMPERATURE 104°F (40°C) Continuous MOTOR HOUSING Cast Iron PUMP STRAINER Thermoplastic side. Balanced, ISO G6.3 Material Cast Iron SHAFT Stainless Steel O-RINGS Buna-N HARDWARE 300 Series Stainless Steel PAINT Air Dry Enamel SEAL: Design Single Mechanical, Type 21 Material Silicon Carbide/Silicon Carbide/Buna-N Hardware -300 Series Stainless CORD ENTRY...... 20 ft. (6m) Cord with plug and pressure Gromment for sealing and strain relief UPPER BEARING...... Single Row, Ball, Oil Lubricated LOWER BEARING...... Single Row, Ball, Oil Lubricated MOTOR: Design Oil Filled Insulation...... Class B

SINGLE PHASE...... Permanent Split Capacitor (PSC).

Includes thermal overload protection in motor

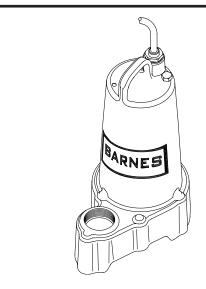
LEVEL CONTROL

SP75X None

SP75AX...... Wide angle, Mechanical, 20 ft. (6m) cord SP75VFX Vertical float, PVC, snap action, 20 ft. (6m) cord

MINUMUM SUMP DIA:

SP75AX...... 18" (457mm) SP75X & SP75VXF 12" (305mm)

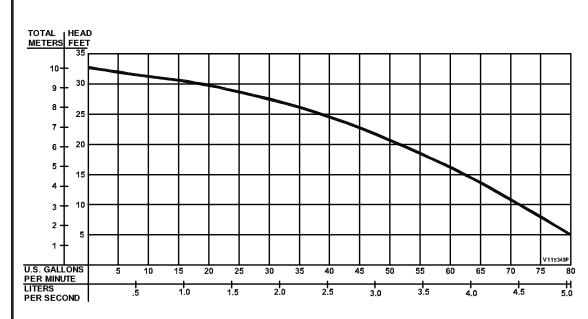


Series: SP75 3/4HP, 3450RPM, 60Hz



DESCRIPTION:

GENERAL PURPOSE PUMP FOR RESIDENTIAL AND LIGHT INDUSTRIAL SUMP APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance



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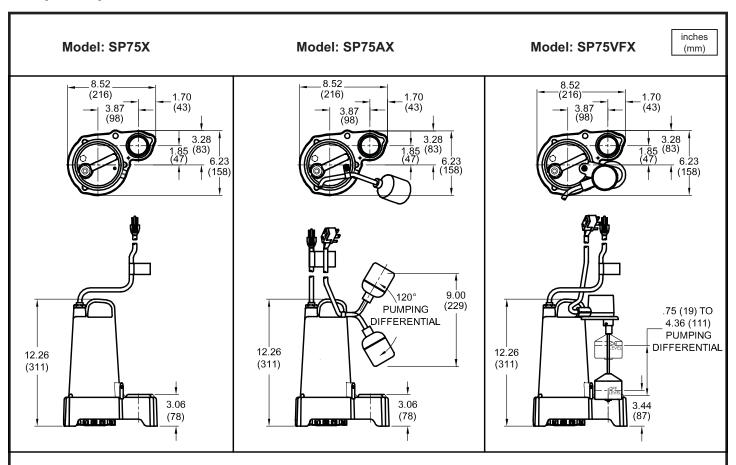
PUMPS & SYSTEMS

Series SP75X

1/2" Spherical Solids Handling Manual & Automatic, Submersible Sump /Effluent



Sump Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
SP75X	115368	3/4	120/1	60	3450	Н	9.8	20 ft. (6m)	14/3	SJTOW
SP75AX	115369	3/4	120/1	60	3450	Н	9.8	20 ft. (6m)	14/3	SJTOW
SP75VFX	115370	3/4	120/1	60	3450	Н	9.8	20 ft. (6m)	14/3	SJTOW

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION A PAGE 12 DATE 4/04





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	Sump Pumps
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PUMPS & SYSTEMS

SECTION A PAGE 13 DATE 4/06



Sump Pumps		
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SECTION A PAGE 14 DATE 4/06









Sump Pumps

DISCHARGE1½" NPT, Female, Vertical **LIQUID TEMPERATURE**130°F (54°C) Continuous

BASEPolypropyleneCOLUMNPolypropyleneFLOATPolypropylene

FLOAT ROD..... Metal

IMPELLER: Design 2 Vane, Open

Material Molded w/stainless steel insert

PUMP SHAFT Carbon Steel HARDWARE Stainless Steel

CORD ENTRY...... 8 ft. (2m) cord with plug

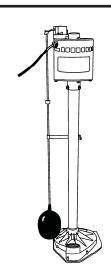
MOTOR - UPPER BEARING Sleeve

MOTOR - LOWER BEARING Single Row, Ball

MOTOR: Design NEMA L Torque curve, Air filled

Insulation Class B

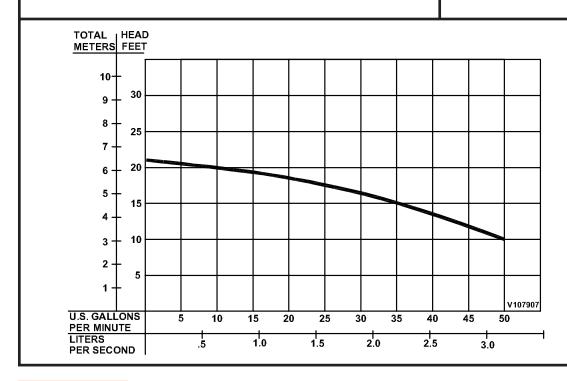
MINIMUM SUMP DIA...... 12" (305mm)



Series: 62P 1/3HP, 1725RPM, 60Hz

DESCRIPTION:

GENERAL PURPOSE PUMP FOR RESIDENTIAL AND LIGHT INDUSTRIAL SUMP APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

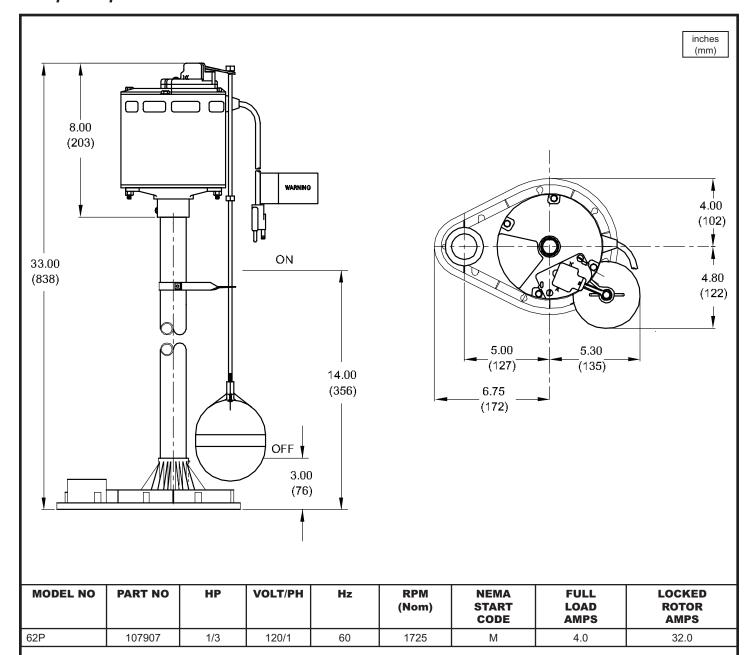
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PUMPS & SYSTEMS

SECTION A PAGE 15 DATE 4/04



Sump Pumps



IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION A PAGE 16 DATE 4/04







Non-Submersible Bronze

Sump Pumps

DISCHARGE1½" NPT, Female, Vertical **LIQUID TEMPERATURE**150°F (66°C) Continuous

 BASE
 Bronze

 SCREEN
 Brass

 VOLUTE
 Bronze

 COLUMN
 Bronze

 FLOAT
 Copper

FLOAT ROD...... Brass, with adjustable stops

IMPELLER: Design 3 Vane, Open. Dynamically Balanced

.....ISO G6.3

MaterialRed BronzePUMP SHAFTStainless SteelHARDWAREStainless Steel

CORD ENTRY...... 8 ft. (2m) cord with plug

MOTOR - UPPER BEARING Sleeve

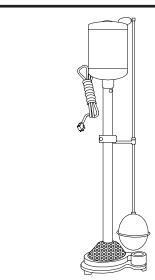
MOTOR - LOWER BEARING Single Row, Ball

MOTOR: Design NEMA L Torque curve, Air filled

Insulation Class B

SINGLE PHASE...... 115 Volt, includes overload protection

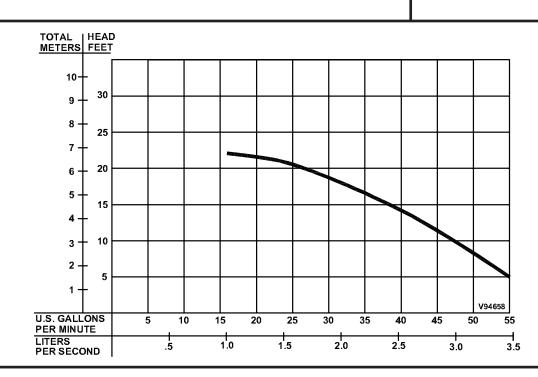
in motor



Series: 92B 1/3**HP**, 1750**RPM**, 60**Hz**

DESCRIPTION:

GENERAL PURPOSE PUMP FOR RESIDENTIAL AND LIGHT INDUSTRIAL SUMP APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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PUMPS & SYSTEMS

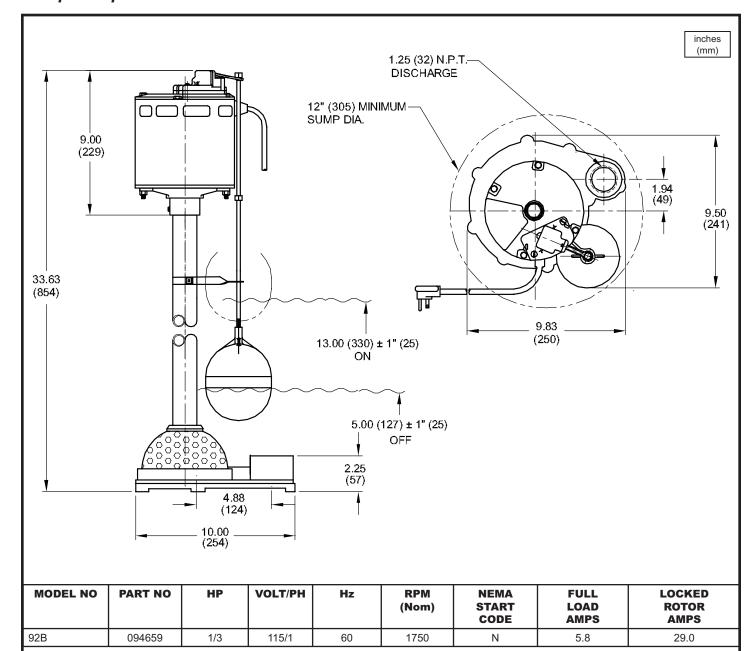
SECTION A PAGE 17 DATE 4/04

Series 92B

Non-Submersible Bronze



Sump Pumps



IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION A PAGE 18 DATE 4/04





Series BUS

Battery Backup Submersible

Sump Pumps

DISCHARGE1½" NPT, Female, Vertical **LIQUID TEMPERATURE**150°F (66°C) Continuous

PUMP HOUSING Non-corrosive, may be used in fresh or

salt water (resulting from water softener

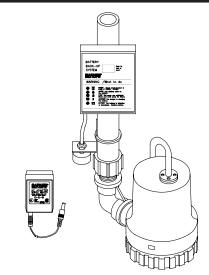
residue).

longer life

The BUS can provide added protection for your home when installed. With the battery backup sump pump system your pumping power is never interrupted. The BUS switches automatically to battery power when the power fails, and it pumps along with your primary pump when there is more water coming into your sump than your main pump can handle. The BUS recharges automatically when power is restored and monitors battery and power conditions constantly. It will also detect irregularities, sounds an alarm and pinpoints problems and solutions on the control panel.

The alarm will sound to these potential problems;

- · Battery needs water
- · Battery is old and needs to be replaced
- · Battery is discharge
- · Battery is defective
- · Power plug is out of wall
- · Power is out
- · Charger needs to be replaced
- · Pump has been activated



Series: BUS
Battery Backup

DESCRIPTION:

GENERAL PURPOSE PUMP FOR RESIDENTIAL AND LIGHT INDUSTRIAL SUMP APPLICATIONS

Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance



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PUMPS & SYSTEMS

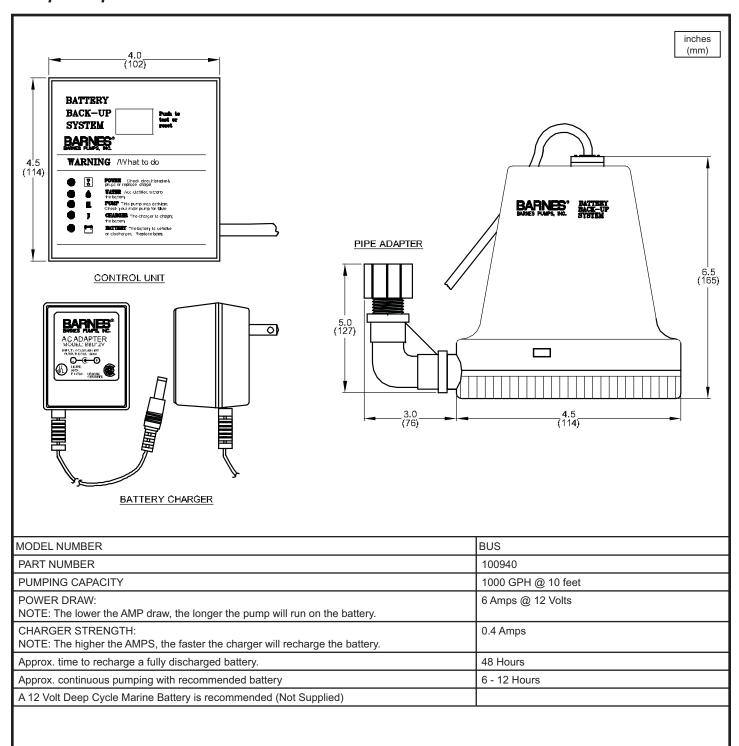
SECTION A PAGE 19 DATE 4/04

Series BUS

Battery Backup Submersible



Sump Pumps



IMPORTANT!

- 1.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 2.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 3.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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Series SP33LT

Laundry Tray Sump Pump System

Sump Pumps

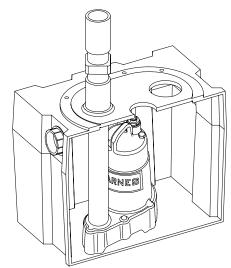
The Laundry Tray system is designed for above the floor "grey water" sump applications. Typical uses include laundry trays, wet bars, dehumidifiers, water softeners and air conditioner condensation. Manufactured with high guality polyethylene resins and tested to industry standards. The pre-assembled system comes complete with pump, tank, 1½" PVC discharge pipe and check valve (valve supplied loose).

FEATURES:

- All components are durable, corrosion-resistant polyethylene.
- Box and cover have a matching textured finish.
- 1-1/2" threaded "spin weld" insert for the inlet.
- · Grommet discharge, vent and cord seals.
- Accommodates 1-1/2" discharge piping.
- · Stainless steel bolts and encapsulated aluminum inserts
- · Large 11 gallon capacity.
- 1/8" thick black closed cell foam gasket.
- Size: 12" x 16" x 14"
- Wall thickness 3/16"
- Package weight 365 lbs. (Includes pump)

MODEL	PART NO.	PUMP MODEL	PART NO.
SP33LT	112900	SP33VF	112551

See Section A pages 1 and 2 for additional pump data. See Section E for basin only.

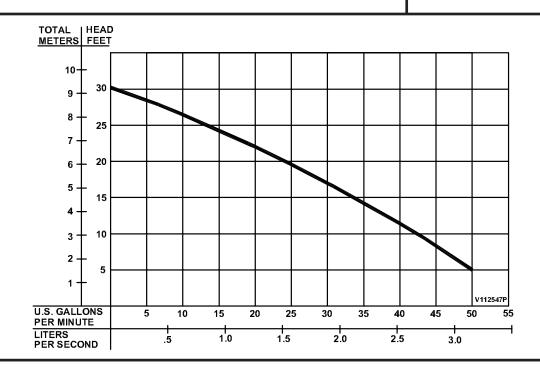


Series: SP33LT, 60Hz

P/N: 112900

DESCRIPTION:

GENERAL PURPOSE PUMP FOR RESIDENTIAL AND LIGHT INDUSTRIAL SUMP APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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PUMPS & SYSTEMS

SECTION A PAGE 21 DATE 4/04

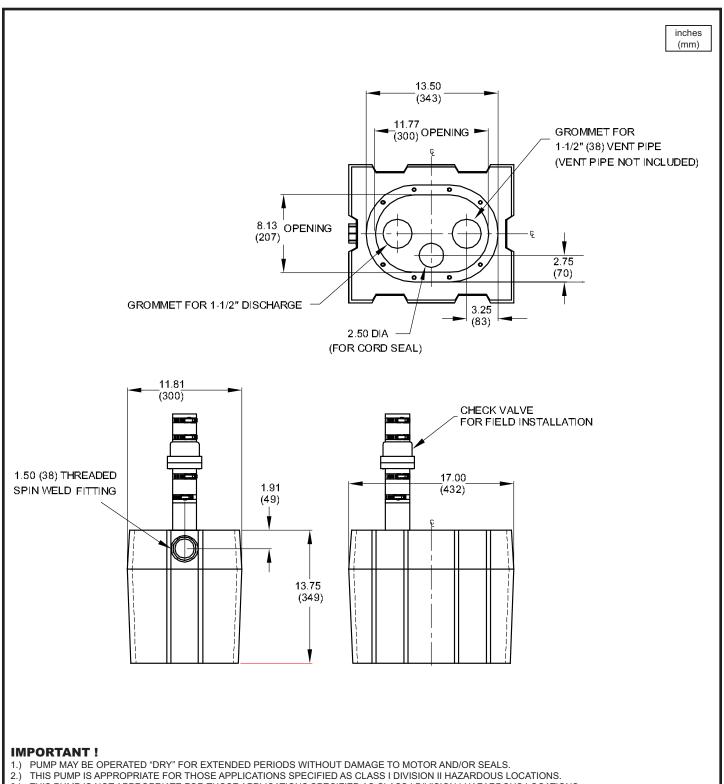
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Series SP33LT

Laundry Tray Sump Pump System



Sump Pumps



- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION A PAGE 22 DATE 4/04



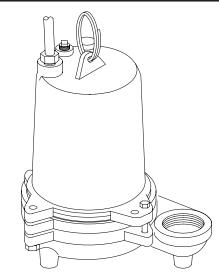




3/4" Spherical Solids Handling Manual & Automatic - Submersible

Sump Pumps

		2" NPT, Female, Vertical
LIQUID TEM		
		77°F (25°C) Continuous
	BP324	104°F (40°C) Continuous
VOLUTE		(BP) Cast Iron, (BP-BR) Bronze
MOTOR HOU	ISING	(BP) Cast Iron, (BP-BR) Bronze
		(BP) Cast Iron, (BP-BR) Bronze
IMPELLER:		2 Vane open, Dynamically Balanced, ISO G6.3
		(BP) Polypropylene with stainless insert
		(BP-BR) Bronze 81-3-7-9
SHAFT		
	IGS	
		300 Series Stainless Steel
		Single Mechanical, Oil-Filled Reservoir,
JLAL.	Design	Secondary Exclusion Seal
	Motorial	Carbon/Ceramic/Buna-N
CODD ENTR		
CORDENIK	T	15 ft. (5m) Quick Disconnect Cord with plug
		On 115 volt, Pressure Gromment for sealing
l		and strain relief
		Single Row, Ball, Oil Lubricated
		Single Row, Ball, Oil Lubricated
MOTOR, SIN	GLE PHASE	Permanent Split Capacitor (PSC). Oil Filled.
		Includes Overload Protection in Motor
	Insulation	
LEVEL CONT	TROLS	"A" - Wide Angle, PVC, Mechanical, 15 ft (5m)
		cord with Piggy-Back Plug, N/O
		"AU" - Wide Angle, Polypropylene, Mechanical,
		N/O, Integral to pump. ON and OFF points are
		adjustable
		"VF" - Vertical Float, PVC, Snap Action,
		15 ft (5m) cord, with Piggy-Back plug. OFF
		point ONLY is adjustable
OPTIONAL F	QUIPMENT	Seal Material, Additional Cable, Bronze Impeller
	~~	

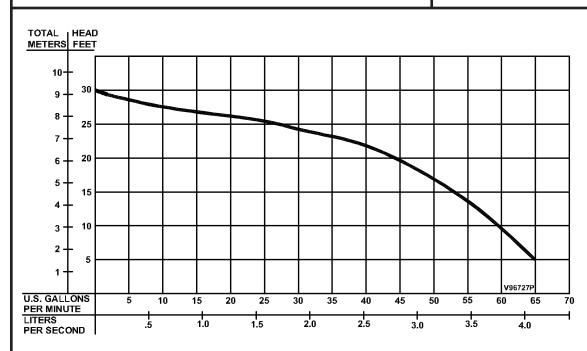


Series: BP314 & BP324 1/3HP, 1750RPM, 60Hz



DESCRIPTION:

GENERAL PURPOSE PUMP FOR RESIDENTIAL AND LIGHT INDUSTRIAL SUMP APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

A Crane Co. Company

PUMPS & SYSTEMS

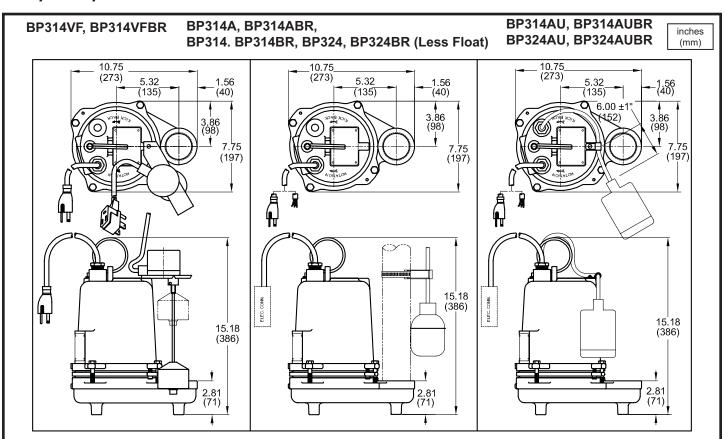
SECTION A PAGE 23 DATE 4/04

Series BP

3/4" Spherical Solids Handling Manual & Automatic - Submersible



Sump Pumps



MODEL NO	PART NO	НР	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
BP314	096727	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314A	096728	1/3	115/1	60	1750	А	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314AU	096729	1/3	115/1	60	1750	А	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314VF	100834	1/3	115/1	60	1750	А	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314BR	096732	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314ABR	096733	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314AUBR	096734	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314VFBR	100835	1/3	115/1	60	1750	А	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP324	096730	1/3	230/1	60	1750	А	4.0	13.0	14/3	SJTOW	0.375 (9.5)
BP324AU	096731	1/3	230/1	60	1750	Α	4.0	13.0	14/3	SJTOW	0.375 (9.5)
BP324BR	096735	1/3	230/1	60	1750	А	4.0	13.0	14/3	SJTOW	0.375 (9.5)
BP324AUBR	096736	1/3	230/1	60	1750	А	4.0	13.0	14/3	SJTOW	0.375 (9.5)

Mechanical Switch on BP-A, cord 16/2, SJOW, Piggy-Back Plug. Mechanical Switch on BP-AU, cord 14/2, SJOW Vertical Switch on BP-VF, cord 16/2, SJOW, Piggy-Back Plug

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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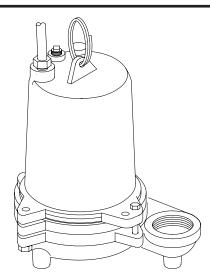


High Temperature - 3/4" Spherical Solids Handling
Manual & Automatic - Submersible

Sump Pumps

DISCHARGE	•	. 2" NPT, Female, Vertical
LIQUID TEME	PERATURE	. 200°F (93°C) Continuous
		. (BP) Cast Iron, (BP-BR) Bronze
		. (BP) Cast Iron, (BP-BR) Bronze
		. (BP) Cast Iron, (BP-BR) Bronze
		. 2 Vane open, Dynamically Balanced, ISO G6.3
IIVII EEEEIX.	Material	
SHVET	wateriai	
	GS	
		. 300 Series Stainless Steel
SEAL:		. Single Mechanical, Oil-Filled Reservoir,
SEAL.	Design	Secondary Exclusion Seal
	Motorial	. Carbon/Ceramic/Buna-N
CODD ENTD		
CORDENIA	T	. 15 ft. (5m) Quick Disconnect Cord with plug On 115 volt, Pressure Gromment for sealing
		and strain relief
LIDDED DEAD	DINC	
		Single Row, Ball, Oil Lubricated
		Single Row, Ball, Oil Lubricated
MOTOR, SING	JLE PHASE	Permanent Split Capacitor (PSC). Oil Filled.
	1 1 11	Includes Overload Protection in Motor
	Insulation	
LEVEL CONT	ROLS	. "A" - High Temperature, Wide Angle,
		Mechanical, N/O, 15 ft (5m) cord with
		Piggy-Back Plug,
		"AU" - High Temperature, Wide Angle,
		Polypropylene, Mechanical, N/O Integral to

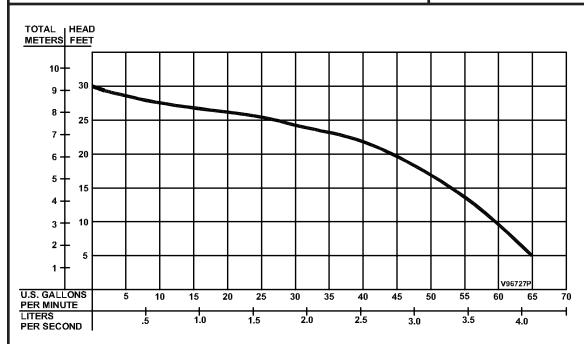
OPTIONAL EQUIPMENT.....Seal Material, Additional Cable



Series: BP314HT & BP324HT 1/3HP, 1750RPM, 60Hz, Cast Iron & Bronze

DESCRIPTION:

GENERAL PURPOSE PUMP FOR RESIDENTIAL AND LIGHT INDUSTRIAL SUMP APPLICATIONS



pump. ON and OFF points are adjustable

Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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PUMPS & SYSTEMS

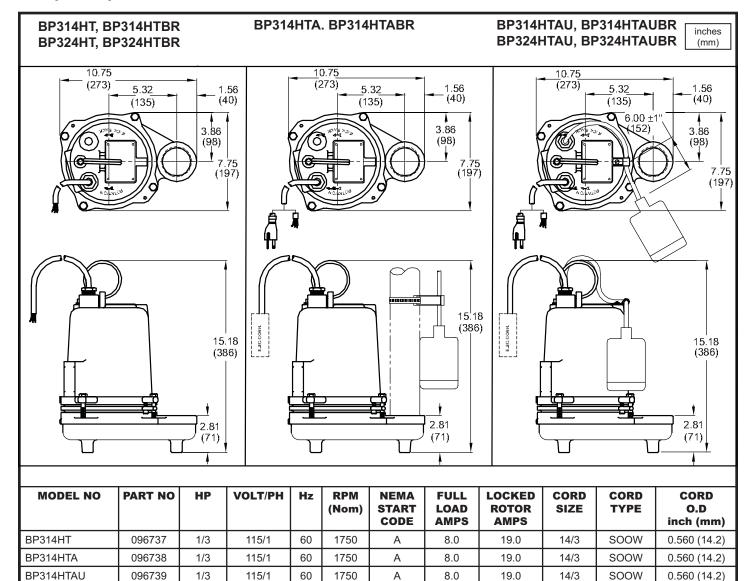
SECTION A PAGE 25 DATE 4/04

Series BP-HT

High Temperature - 3/4" Spherical Solids Handling Manual & Automatic - Submersible



Sump Pumps



Mechanical Switch on BP314HTA, cord 14/2, SJOOW, 0.370 (9.4MM) O.D., Piggy-Back Plug. Mechanical Switch on BP314HTAU & BP324HTAU, cord 14/2, SJOOW, 0.370 (9.4MM) O.D.

1/3

1/3

1/3

1/3

1/3

1/3

1/3

IMPORTANT

BP314HTBR

BP314HTABR

BP324HT

BP324HTAU

BP324HTBR

BP324HTAUBR

BP314HTAUBR

096742

096743

096744

096740

096741

096745

096746

1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS

115/1

115/1

115/1

230/1

230/1

230/1

230/1

2.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.

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14/3

14/3

14/3

14/3

SOOW

SOOW

SOOW

SOOW

SOOW

SOOW

SOOW

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0.560 (14.2)

0.560 (14.2)

0.560 (14.2)

0.560 (14.2)

0.560 (14.2)

0.560 (14.2)

3.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE

4.) MUST USE A **HIGH TEMPERATURE** WIDE ANGLE LEVEL CONTROL IN HIGH TEMPERATURE APPLICATIONS.

SECTION A PAGE 26 DATE 4/04







Portable Utility - 1/8" Spherical Solids Handling
Manual - Submersible

Sump Pumps

MOTOR HOUSING Thermoplastic

PUMP STRAINER Thermoplastic

IMPELLER: Design 2 Vane, Semi-open

Material Thermoplastic

 SHAFT
 Steel

 O-RINGS
 Buna-N

 HARDWARE
 Stainless Steel

SEAL: Design Single Mechanical, Type 6
Material Carbon/Ceramic/Buna-N

Gromment for sealing and strain relief

UPPER BEARING...... Single Row, Ball, Oil Lubricated LOWER BEARING..... Single Row, Ball, Oil Lubricated

SINGLE PHASE...... Permanent Split Capacitor (PSC).

Includes Thermal Overload Protection

in Motor

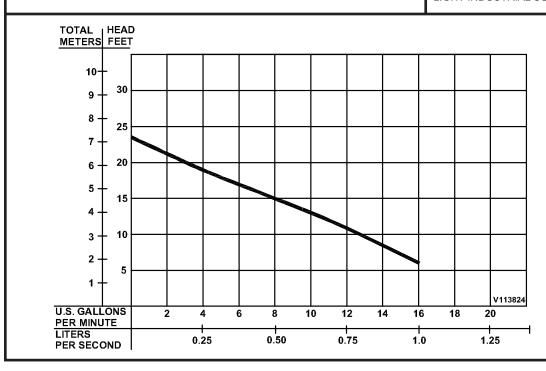


Series: UT17 1/6 **HP, 3450RPM, 60Hz**



DESCRIPTION:

GENERAL PURPOSE PUMP FOR RESIDENTIAL AND LIGHT INDUSTRIAL SUMP APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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A Crane Co. Company

PUMPS & SYSTEMS

SECTION A PAGE 27 DATE 8/04

Series UT17

Portable Utility - 1/8" Spherical Solids Handling Manual - Submersible



Sump Pumps

inches (mm) 6.07 (154.2) 3.33 (84.7) 2.39 (60.8) 5.47 (139.0)3/4 G.H.T. **DISCHARGE** .63 (16.0) BARNES 8.37 7.75 (212.7)(196.7).50 (12.7)

MODEL NO	PART NO	НР	VOLT/PH	Hz	RPM (Nom)	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
UT17	113824	1/6	120/1	60	3450	2.0	15 ft. (4.5m)	18/3	SJTW

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION A PAGE 28 DATE 8/04





Series EP52X

3/4" Spherical Solids Handling Manual & Automatic

Sump Pumps

BODY & STRAINER Thermoplastic

IMPELLER: Design 10 Vane vortex, with pump out vanes on

back side. Balanced, ISO G6.3

O-RINGS Buna-N

HARDWARE 300 Series Stainless Steel

PAINT Air Dry Enamel

SEAL: Design Single Mechanical, Type 21

Material Silicon Carbide/Silicon Carbide/Buna-N

Hardware - 300 Series Stainless

CORD ENTRY...... 20 ft. (6m) Quick connect cord with plug

and pressure Gromment for sealing

and strain relief

MOTOR: Design Oil Filled

Insulation Class B

SINGLE PHASE...... Permanent Split Capacitor (PSC). Includes

thermal overload protection in motor

LEVEL CONTROL

EP52X..... None

EP52AX Wide angle, Mechanical, 20 ft. (6m) cord

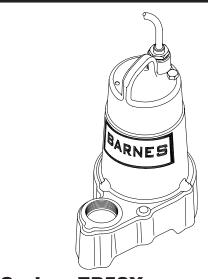
with Piggy-Back plug

EP52VFX Vertical float, PVC, snap action, 20 ft (6m)

cord with Piggy-Back plug

MINUMUM SUMP DIA:

EP52AX 18" (457mm) EP52X & EP52VXF 12" (305mm)

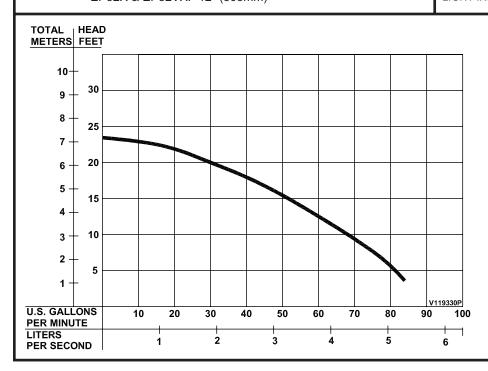


Series: EP52X 1/2HP, 3450RPM, 60Hz



DESCRIPTION:

GENERAL PURPOSE PUMP FOR RESIDENTIAL AND LIGHT INDUSTRIAL SUMP APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

A Crane Co. Company

PUMPS & SYSTEMS

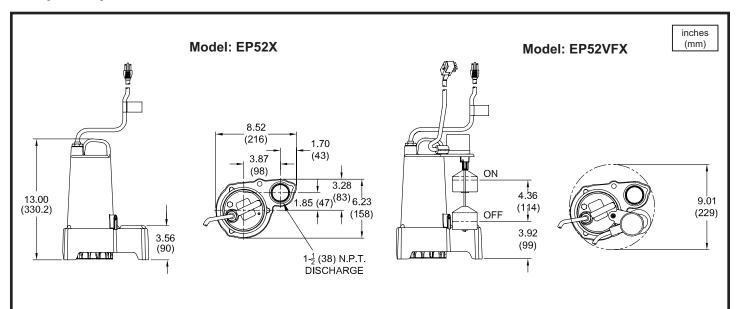
SECTION A PAGE 29 DATE 10/05

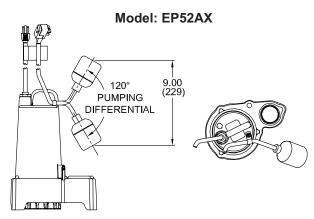
Series EP52X

3/4" Spherical Solids Handling Manual & Automatic



Sump Pumps





MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
EP52X	119330	1/2	240/1	60	3450	D	3.4	20 ft. (6m)	14/3	SJTOW
EP52AX	119411	1/2	240/1	60	3450	D	3.4	20 ft. (6m)	14/3	SJTOW
EP52VFX	119412	1/2	240/1	60	3450	D	3.4	20 ft. (6m)	14/3	SJTOW

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION A PAGE 30 DATE 10/05





Series EP72X

3/4" Spherical Solids Handling Manual & Automatic

Sump Pumps

MOTOR HOUSING Cast Iron
BODY & STRAINER Thermoplastic

IMPELLER: Design 10 Vane vortex, with pump out vanes on

back side. Balanced, ISO G6.3

Material Cast Iron

SHAFT Stainless Steel

O-RINGS Buna-N

HARDWARE 300 Series Stainless Steel

PAINT..... Air Dry Enamel

SEAL: Design Single Mechanical, Type 21

Material Silicon Carbide/Silicon Carbide/Buna-N

Hardware -300 Series Stainless

CORD ENTRY...... 20 ft. (6m) Quick connect cord with plug

and pressure gromment for sealing and

strain relief

UPPER BEARING...... Single Row, Ball, Oil Lubricated LOWER BEARING..... Single Row, Ball, Oil Lubricated

MOTOR: Design Oil Filled

Insulation Class B

SINGLE PHASE...... Permanent Split Capacitor (PSC). Includes

thermal overload protection in motor

LEVEL CONTROL

EP72X..... None

EP72AX Wide angle, Mechanical, 20 ft. (6m) cord

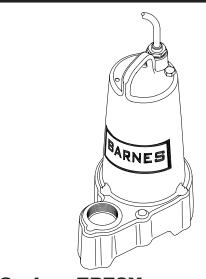
with Piggy-Back plug

EP72VFX Vertical float, PVC, snap action, 20 ft. (6m)

cord with Piggy-Back plug

MINUMUM SUMP DIA:

EP72AX 18" (457mm) EP72X & EP72VXF 12" (305mm)

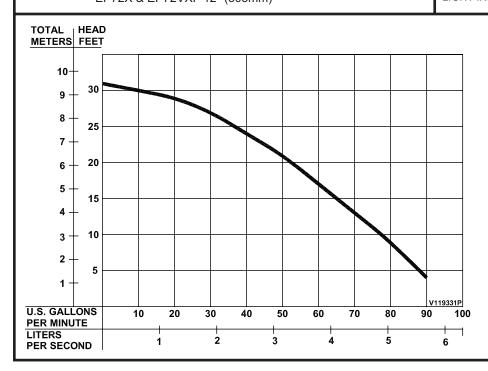


Series: EP72X 3/4HP, 3450RPM, 60Hz



DESCRIPTION:

GENERAL PURPOSE PUMP FOR RESIDENTIAL AND LIGHT INDUSTRIAL SUMP APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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PUMPS & SYSTEMS

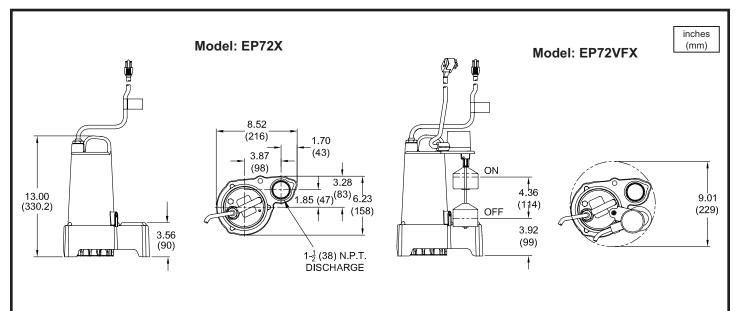
SECTION A PAGE 31 DATE 10/05

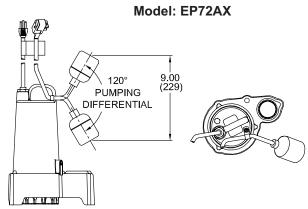
Series EP72X

3/4" Spherical Solids Handling Manual & Automatic



Sump Pumps





MODEL NO	PART NO	НР	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
EP72X	119331	3/4	240/1	60	3450	Α	4.3	20 ft. (6m)	14/3	SJTOW
EP72AX	119413	3/4	240/1	60	3450	Α	4.3	20 ft. (6m)	14/3	SJTOW
EP72VFX	119414	3/4	240/1	60	3450	Α	4.3	20 ft. (6m)	14/3	SJTOW

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION A PAGE 32 DATE 10/05





Series EHV

3/4" Spherical Solids Handling Manual & Automatic

Submersible Effluent Pumps

MOTOR HOUSING Cast Iron
PUMP BODY Cast Iron

IMPELLER: Design Multi-Vane, Vortex

Material Cast Iron

SHAFT 420 Stainless Steel

O-RINGS Buna-N

HARDWARE 300 Series Stainless Steel

PAINT Air Dry Enamel

SEAL: Design Single Mechanical, Oil Filled Reservoir

Material Carbon/Ceramic/Buna-N

Gromment for sealing and strain relief

UPPER BEARING...... Single Row, Ball

LOWER BEARING...... Single Row, Ball **MOTOR:** *Design* Oil Filled

Insulation Class B

SINGLE PHASE...... Permanent Split Capacitor (PSC)

Includes Overload Protection in Motor

LEVEL CONTROL:

EHV412 None

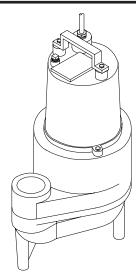
EHV412A Wide Angle, Mechanical, 20 ft (6m) cord

Pipe Mounted

EHV412VF..... Vertical Float, PVC, Snap Action

EHV412AT Wide Angle, Mechanical, 20 ft (6m) cord

Pump Mounted



Series: EHV 0.5 HP, 3450RPM, 60Hz



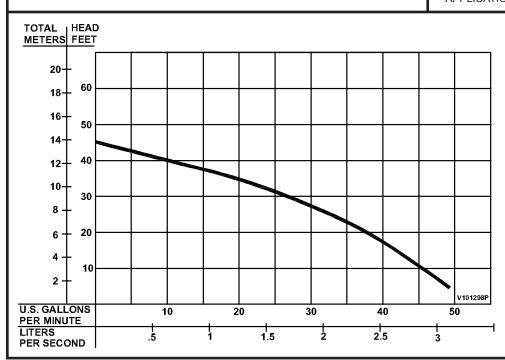
R CSA 108 - File No. LR16567

UL 778

NRTL\C

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

A Crane Co. Company

PUMPS & SYSTEMS

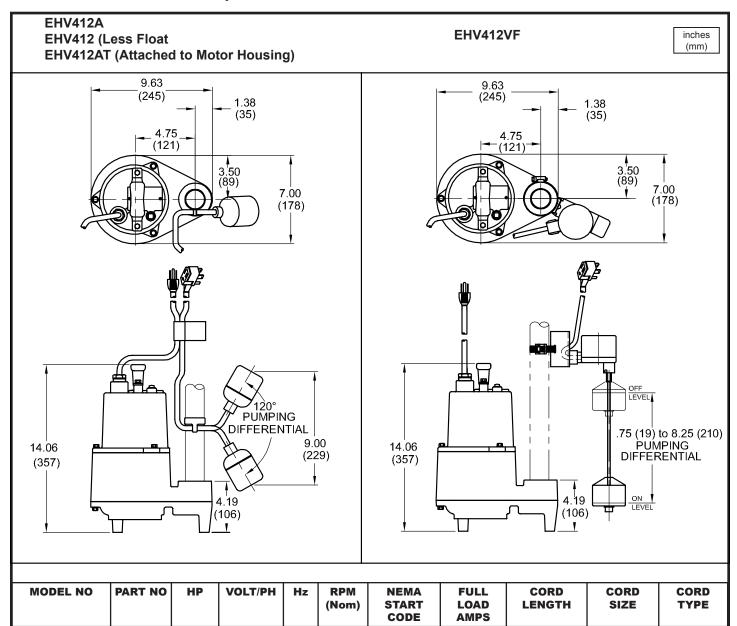
SECTION B PAGE 1 DATE 4/04

Series EHV

3/4" Spherical Solids Handling Manual & Automatic



Submersible Effluent Pumps



IMPORTANT!

EHV412

EHV412A

EHV412VF

EHV412AT

EHV412

1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.

115/1

115/1

115/1

115/1

115/1

- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.

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6.4

4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION B PAGE 2 DATE 10/05



101298

103542

101300

103543

101298G

0.5

0.5

0.5

0.5

0.5

20 ft. (6m)

20 ft. (6m)

20 ft. (6m)

20 ft. (6m)

30 ft. (9m)

14/3

14/3

14/3

14/3

14/3

SJTOW

SJTOW

SJTOW

SJTOW

SJTOW

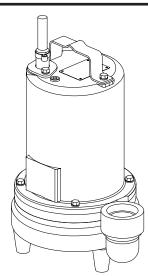




3/4" Spherical Solids Handling Single Seal

Submersible Effluent Pumps

LIQUID TEMI	PERATURE	2" NPT, Female, Vertical 104°F (40°C) Continuous
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
IMPELLER:	Design	3 Vane, open, with pump out vanes on
		back side. Dynamically balanced, ISO G6.3
	Material	Polypropylene with stainless steel insert
SHAFT		416 Stainless Steel
	NGS	
HARDWARE		300 Series Stainless Steel
PAINT		Air Dry Enamel
	Design	
		Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTR	Υ	15 ft. (5m) Cord with plug on 120 volt &
		.5HP, 240 volt, 1 phase. Quick connect
		custom molded for sealing and strain relief
IIDDED REAL	DING	Single Row, Ball, Oil lubricated
		Single Row, Ball, Oil lubricated
MOTOR:		NEMA L -Single Phase, NEMA B -Three phase
WOTOR.	Design	Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	, , , ,
OINIOI E BILA		
SINGLE PHA	/2F	Permanent Split Capacitor (PSC)
		Includes Overload Protection in Motor
THREE PHAS	SE	200-240/480 is Tri-Voltage. 600V. Requires
		Overload Protection to be included in control
		panel
	sed Temperature Sense	Seal Material, Impeller Trims, Additional cord, ors with cord for 3 phase pumps (Requires relay



Series: EH-L .5 - 1.5 HP, 3450RPM, 60Hz

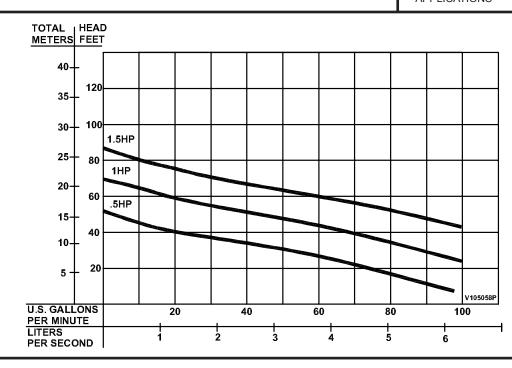


CSA 108 - File No. LR16567 **UL 778**

NRTL\C

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT **APPLICATIONS**



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

A Crane Co. Company

PUMPS & SYSTEMS

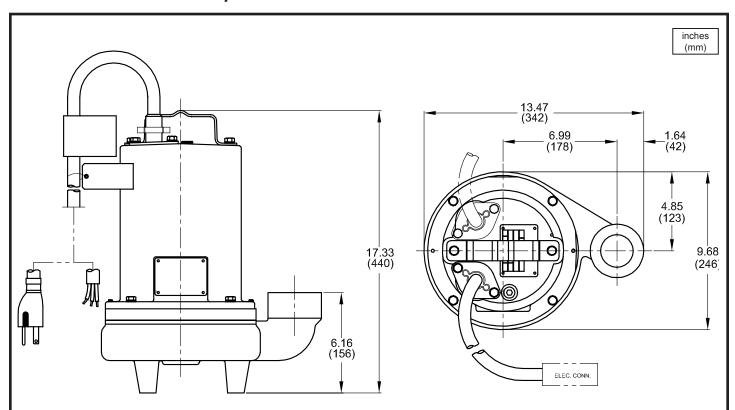
SECTION B PAGE 3 DATE 4/04

Series EH-L

3/4" Spherical Solids Handling Single Seal



Submersible Effluent Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
EH512L	105058	0.5	120/1	60	3450	G	11.4	24.6	14/3	SJTOW	0.375 (9.5)
EH522L	105059	0.5	240/1	60	3450	Е	4.9	10.2	14/3	SOW	0.530 (13.5)
EH592L	105060	0.5	200/240/3	60	3450	P/R	4.2/4.5	19.9/18.4	14/4	SOW	0.570 (14.5)
EH542L	105061	0.5	480/3	60	3450	R	2.2	9.1	14/4	SOW	0.570 (14.5)
EH552L	105062	0.5	600/3	60	3450	Т	1.7	8.7	14/4	SOW	0.570 (14.5)
EH1022L	105068	1.0	240/1	60	3450	F	8.1	21.8	14/3	SOW	0.530 (13.5)
EH1092L	105069	1.0	200/240/3	60	3450	H/J	8.1/6.2	19.9/18.4	14/4	SOW	0.570 (14.5)
EH1042L	105070	1.0	480/3	60	3450	J	3.1	9.1	14/4	sow	0.570 (14.5)
EH1052L	105071	1.0	600/3	60	3450	L	2.8	8.7	14/4	sow	0.570 (14.5)
EH1522L	105076	1.5	240/1	60	3450	Е	10.9	30.6	14/3	SOW	0.530 (13.5)
EH1592L	105077	1.5	200/240/3	60	3450	H/F	7.8/7.0	29.2/18.7	14/4	SOW	0.570 (14.5)
EH1542L	105078	1.5	480/3	60	3450	K	3.5	14.6	14/4	SOW	0.570 (14.5)
EH1552L	105079	1.5	600/3	60	3450	K	2.7	11.6	14/4	sow	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, .530 (13.5mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- .) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION B PAGE 4 DATE 4/04



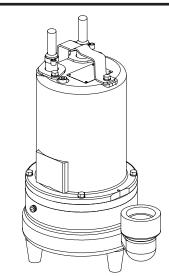




3/4" Spherical Solids Handling
Double Seal

Submersible Effluent Pumps

LIQUID TEMI	PERATURE	2" NPT, Female, Vertical 104°F (40°C) Continuous Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
		3 Vane, open, with pump out vanes on
IIIII EEEEIN.	Doorgii	back side. Dynamically balanced, ISO G6.3
	Material	Polypropylene with stainless steel insert
SHAFT		71 17
SOLIARE RIN	IGS	Runa-N
		300 Series Stainless Steel
SEAL:		Tandem Mechanical, Oil-Filled reservoir
OLAL.		Carbon/Ceramic/Buna-N
	waterial	Hardware -300 Series Stainless
CODD ENTD	v	15 ft. (5m) Cord with plug on 120 volt &
CONDENTA	1	.5HP, 240 volt, 1 phase. Quick connect
		custom molded for sealing and strain relief
LIDDED DEAL	DINC	Single Row, Ball, Oil lubricated
		o , ,
		Single Row, Ball, Oil lubricated
MOTOR:	Design	NEMA L -Single Phase, NEMA B -Three phase
	l., l . 4!	Torque Curve, Oil Filled, Squirrel Cage Induction
OINIOI E BILA	Insulation	
SINGLE PHA	.SE	Permanent Split Capacitor (PSC)
		Includes Overload Protection in Motor
THREE PHAS	SE	200-240/480 is Tri-Voltage. 600V. Requires
		Overload Protection to be included in control
		panel
		Seal Material, Impeller Trims, Additional cord,
		ors with cord for 3 phase pumps (Requires relay
in control pan	el), Normally Open Mo	isture Sensors with cord (Requires Relay in



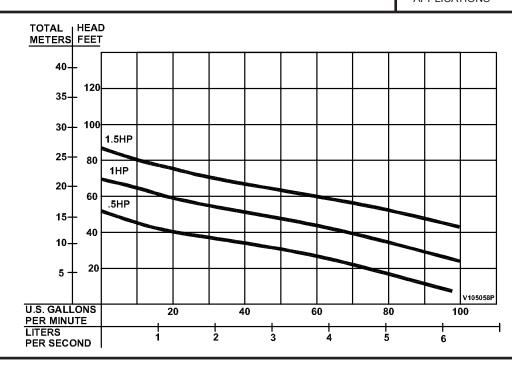
Series: EH-DS .5 - 1.5 **HP**, 3450**RPM**, 60**Hz**



CSA 108 - File No. LR16567 UL 778

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

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control panel).

PUMPS & SYSTEMS

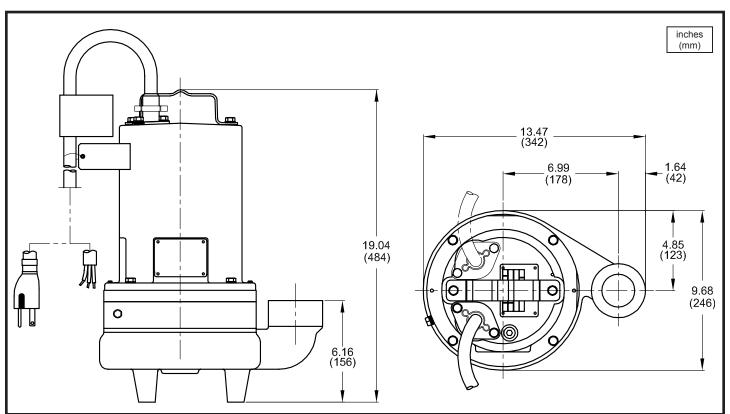
SECTION B PAGE 5 DATE 4/04

Series EH-DS

3/4" Spherical Solids Handling Double Seal



Submersible Effluent Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
EH512DS	105063	0.5	120/1	60	3450	G	11.4	24.6	14/3	SJTOW	0.375 (9.5)
EH522DS	105064	0.5	240/1	60	3450	Е	4.9	10.2	14/3	SOW	0.530 (13.5)
EH592DS	105065	0.5	200/240/3	60	3450	P/R	4.2/4.5	19.9/18.4	14/4	SOW	0.570 (14.5)
EH542DS	105066	0.5	480/3	60	3450	R	2.2	9.1	14/4	sow	0.570 (14.5)
EH552DS	105067	0.5	600/3	60	3450	Т	1.7	8.7	14/4	sow	0.570 (14.5)
EH1022DS	105072	1.0	240/1	60	3450	F	8.1	21.8	14/3	SOW	0.530 (13.5)
EH1092DS	105073	1.0	200/240/3	60	3450	H/J	8.1/6.2	19.9/18.4	14/4	SOW	0.570 (14.5)
EH1042DS	105074	1.0	480/3	60	3450	J	3.1	9.1	14/4	sow	0.570 (14.5)
EH1052DS	105075	1.0	600/3	60	3450	L	2.8	8.7	14/4	SOW	0.570 (14.5)
EH1522DS	105080	1.5	240/1	60	3450	Е	10.9	30.6	14/3	SOW	0.530 (13.5)
EH1592DS	105081	1.5	200/240/3	60	3450	H/F	7.8/7.0	29.2/18.7	14/4	SOW	0.570 (14.5)
EH1542DS	105082	1.5	480/3	60	3450	K	3.5	14.6	14/4	SOW	0.570 (14.5)
EH1552DS	105083	1.5	600/3	60	3450	K	2.7	11.6	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, .530 (13.5mm) O.D.

OPTIONAL - Moisture sensor cord is 18/5 SOW, 0.470 (11.9mm) O.D.

OPTIONAL - Moisture and Temperature sensor cord for 3 phase models is 18/5 SOW, 0.470 (11.9mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION B PAGE 6 DATE 4/04





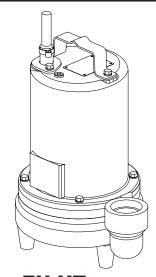
www.cranepumps.com

Series EH-HT

3/4" Spherical Solids Handling Single Seal, High Temperature

Submersible Effluent Pumps

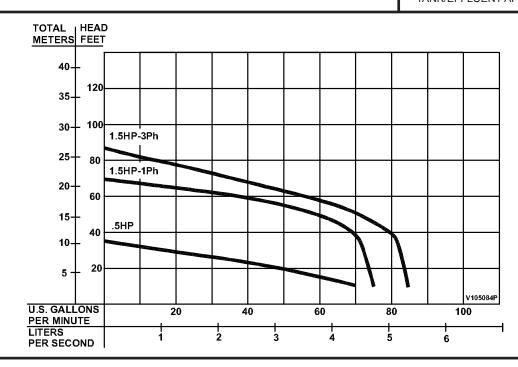
DISCHARGE		2" NPT, Female, Vertical
LIQUID TEM	DEDATUDE	200°F (93°C) Continuous
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
IMPELLER:	Design	3 Vane, open, with pump out vanes on
		back side. Dynamically balanced, ISO G6.3
	Material	Cast Iron ASTM A-48, Class 30
SHAFT		416 Stainless Steel
SQUARE RIN	IGS	Buna-N
HARDWARE		300 Series Stainless Steel
PAINT		Air Dry Fnamel
SEAL:	Design	
02,12.		Carbon/Ceramic/Buna-N
	Waterial	Hardware -300 Series Stainless
CODD ENTD	v	15 ft. (5m) Cord with plug on 120 volt &
CONDENTA	I	.5HP, 240 volt, 1 phase. Quick connect
	2010	custom molded for sealing and strain relief
		Single Row, Ball, Oil lubricated
		Single Row, Ball, Oil lubricated
MOTOR:	Design	NEMA L -Single Phase, NEMA B -Three phase
		Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	Class B
SINGLE PHA	SE:	
	.5HP, 120Volt	Split Phase. Includes overload protection in motor
	.5HP, 240Volt	Capacitor Start, Induction Run
		Includes Overload Protection in Motor
	1.5HP	Permanent Split Capacitor (PSC)
		Includes Overload Protection in Motor
THREE PHAS	SE	200-240/480 is Tri-Voltage. 600V. Requires
		Overload Protection to be included in control
		panel
OPTIONAL F	QUIPMENT	Seal Material, Impeller Trims, Additional cord,
		ors with cord for 3 phase pumps (Requires relay
in control pan		ord man cord for a pridate pumps (requires relay
in control pari	C.,	



Series: EH-HT .5 - 1.5 HP, 3450RPM, 60Hz

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN **HIGH TEMPERATURE** SEPTIC TANK/EFFLUENT APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance



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PUMPS & SYSTEMS

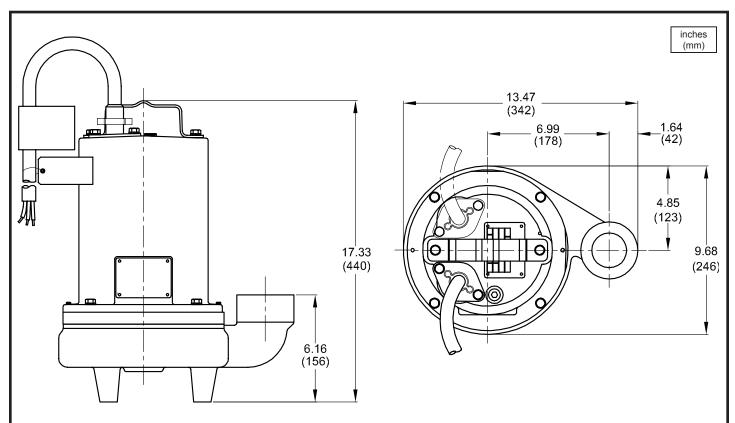
SECTION B PAGE 7 DATE 4/04

Series EH-HT

3/4" Spherical Solids Handling Single Seal, High Temperature



Submersible Effluent Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
EH512HT	105084	0.5	120/1	60	3450	М	10.6	47.9	14/3	sow	0.530 (13.5)
EH522HT	105085	0.5	240/1	60	3450	K	5.3	18.5	14/3	sow	0.530 (13.5)
EH1522HT	105093	1.5	240/1	60	3450	Е	9.0	30.6	14/3	sow	0.530 (13.5)
EH1592HT	105094	1.5	200/240/3	60	3450	H/F	7.8/7.0	29.2/18.7	14/4	sow	0.570 (14.5)
EH1542HT	105095	1.5	480/3	60	3450	K	3.5	14.6	14/4	sow	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, .530 (13.5mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.
 footnotesize 1. This pump is not appropriate for those applications specified as class I division I hazardous locations.
- 3.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE

4.) MUST USE A **HIGH TEMPERATURE** WIDE ANGLE LEVEL CONTROL IN HIGH TEMPERATURE APPLICATIONS.

SECTION B PAGE 8 DATE 4/04



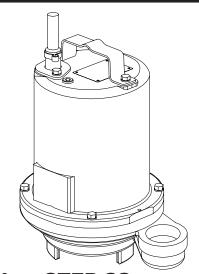


Series STEP-SS

3/4" Spherical Solids Handling Single Seal

Submersible Effluent Pumps

DISCHARGE		2" NPT, Female, Vertical
		104°F (40°C) Continuous
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
IMPELLER:	Design	Single Vane, Enclosed
	Material	Polypropylene with stainless steel insert
SHAFT		416 Stainless Steel
SQUARE RIN	NGS	Buna-N
HARDWARE		300 Series Stainless Steel
PAINT		Air Dry Enamel
SEAL:		Single Mechanical
		Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTR	Υ	15 ft. (5m) Cord with plug on 120 volt &
		240 volt, 1 phase. Quick connect custom
		molded for sealing and strain relief
UPPER BEA	RING	Single Row, Ball, Oil lubricated
		Single Row, Ball, Oil lubricated
MOTOR:		NEMA L -Single Phase, NEMA B -Three phase
	Doorger minimum	Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	
SINGLE PHA		Permanent Split Capacitor (PSC)
O NOLL I III		Includes Overload Protection in Motor
THREE PHA	SF	200-240/480 is Tri-Voltage. 600V. Requires
IIIIKEETIIA	OL	Overload Protection to be included in control
		panel
LEVEL CON.	TPOI	"A" - Wide Angle, PVC, Mechanical,
LEVELOON	11.OL	Pipe Mounted, 15 ft. (4.6m) cord with
		Piggy-Back Plug
OBTIONAL E	OUDMENT	Seal Material, Impeller Trims, Additional cord,
		nsors with cord for 3 phase pumps (Requires relay
		isors with cord for a priase purifys (Requires relay
in control pan	iei),	



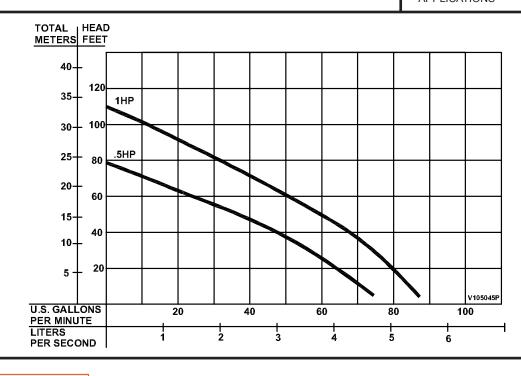
Series: STEP-SS .5 & 1HP, 3450RPM, 60Hz



CSA 108 - File No. LR16567

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT **APPLICATIONS**



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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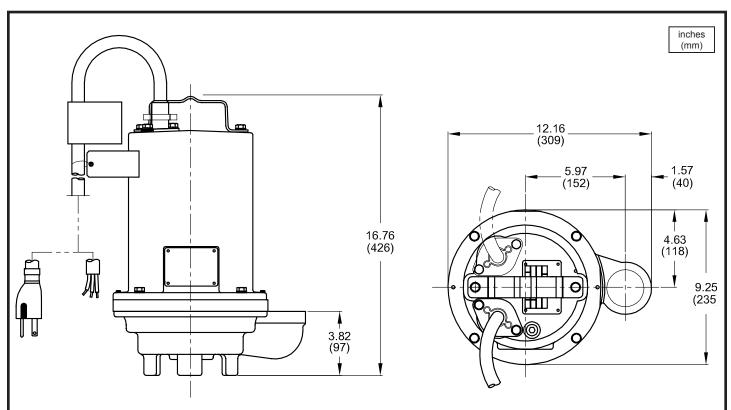
PUMPS & SYSTEMS

Series STEP-SS

3/4" Spherical Solids Handling Single Seal



Submersible Effluent Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
STEP512SS	105045	0.5	120/1	60	3450	G	11.9	24.6	14/3	SJTOW	0.375 (9.5)
STEP512SSA	105045A	0.5	120/1	60	3450	G	11.9	24.6	14/3	SJTOW	0.375 (9.5)
STEP522SS	105046	0.5	240/1	60	3450	Е	5.1	10.2	14/3	SOW	0.530 (13.5)
STEP592SS	105047	0.5	200/240/3	60	3450	P/R	4.5/4.5	19.9/18.4	14/4	SOW	0.570 (14.5)
STEP542SS	105048	0.5	480/3	60	3450	R	2.2	9.1	14/4	sow	0.570 (14.5)
STEP552SS	105049	0.5	600/3	60	3450	Т	1.8	8.7	14/4	SOW	0.570 (14.5)
STEP1022SS	105054	1.0	240/1	60	3450	F	8.3	21.8	14/3	sow	0.530 (13.5)
STEP1022SSA	105054B	1.0	240/1	60	3450	F	8.3	21.8	14/3	sow	0.530 (13.5)
STEP1092SS	105055	1.0	200/240/3	60	3450	H/J	5.9/5.6	19.9/18.4	14/4	sow	0.570 (14.5)
STEP1042SS	105056	1.0	480/3	60	3450	J	2.8	9.1	14/4	SOW	0.570 (14.5)
STEP1052SS	105057	1.0	600/3	60	3450	L	2.2	8.7	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, .530 (13.5mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION B PAGE 10 DATE 4/04



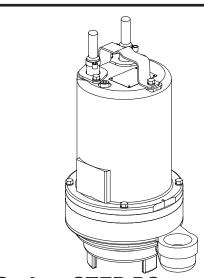


Series STEP-DS

3/4" Spherical Solids Handling **Double Seal**

Submersible Effluent Pumps

DISCHARGE		2" NPT, Female, Vertical
		104°F (40°C) Continuous
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
IMPELLER:		Single Vane, Enclosed
	Material	Polypropylene with stainless steel insert
		Dynamically Balanced, ISO G6.3
SHAFT		416 Stainless Steel
SQUARE RIN	IGS	Buna-N
		300 Series Stainless Steel
PAINT		Air Dry Enamel
SEAL:	Design	Tandem Mechanical, Oil Filled reservoir
		Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTR	Y	15 ft. (5m) Cord with plug on 120 volt &
		240 volt, 1 phase. Quick connect custom
		molded for sealing and strain relief
UPPER BEAR	RING	Single Row, Ball, Oil lubricated
LOWER BEA	RING	Single Row, Ball, Oil lubricated
MOTOR:	Design	NEMA L -Single Phase, NEMA B -Three phase
	-	Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	Class B
SINGLE PHA	SE	Permanent Split Capacitor (PSC)
		Includes Overload Protection in Motor
THREE PHAS	3E	200-240/480 is Tri-Voltage. 600V. Requires
		Overload Protection to be included in control
		panel
OPTIONAL E	QUIPMENT	Seal Material, Impeller Trims, Additional cord,
		ors with cord for 3 phase pumps (Requires relay
•	•	pisture Sensors with cord (Requires relay in
control panel)	,·	
' '		



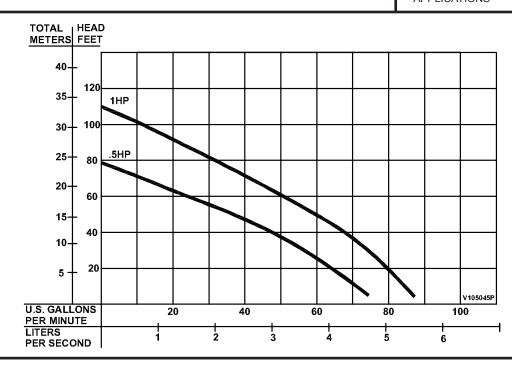
Series: STEP-DS .5 & 1HP, 3450RPM, 60Hz



CSA 108 - File No. LR16567

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT **APPLICATIONS**



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

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PUMPS & SYSTEMS

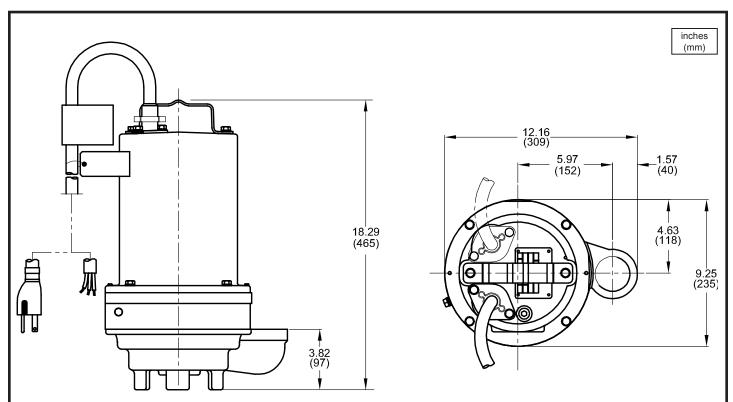
SECTION B PAGE 11 4/04 DATE

Series STEP-DS

3/4" Spherical Solids Handling Double Seal



Submersible Effluent Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
STEP512DS	105040	0.5	120/1	60	3450	G	11.9	24.6	14/3	SJTOW	0.375 (9.5)
STEP522DS	105041	0.5	240/1	60	3450	Е	5.1	10.2	14/3	SOW	0.530 (13.5)
STEP592DS	105042	0.5	200/240/3	60	3450	P/R	4.5/4.5	19.9/18.4	14/4	SOW	0.570 (14.5)
STEP542DS	105043	0.5	480/3	60	3450	R	2.2	9.1	14/4	SOW	0.570 (14.5)
STEP552DS	105044	0.5	600/3	60	3450	Т	1.8	8.7	14/4	SOW	0.570 (14.5)
STEP1022DS	105050	1.0	240/1	60	3450	F	8.3	21.8	14/3	SOW	0.530 (13.5)
STEP1092DS	105051	1.0	200/240/3	60	3450	H/J	5.9/5.6	19.9/18.4	14/4	SOW	0.570 (14.5)
STEP1042DS	105052	1.0	480/3	60	3450	J	2.8	9.1	14/4	SOW	0.570 (14.5)
STEP1052DS	105053	1.0	600/3	60	3450	L	2.2	8.7	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, .530 (13.5mm) O.D.

OPTIONAL - Moisture sensor cord is 18/5 SOW, 0.470 (11.9mm) O.D.

OPTIONAL - Moisture and Temperature sensor cord for 3 phase models is 18/5 SOW, 0.470 (11.9mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION B PAGE 12 DATE 4/04



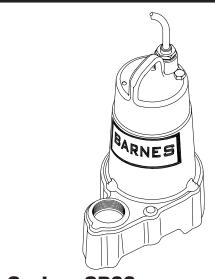




1/2" Spherical Solids Handling Manual & Automatic, Sump /Effluent

Submersible Effluent Pumps

LIQUID TEMF		. 1½" NPT, Female, Vertical . 104°F (40°C) Continuous
	& STRAINER	
IMPELLER:	Design	. 10 Vane vortex, with pump out vanes on back
		side. Balanced, ISO G6.3
	Material	
SHAFT		. Stainless Steel
O-RINGS		. Buna-N
HARDWARE		. 300 Series Stainless Steel
PAINT		. Air Dry Enamel
SEAL:	Desian	. Single Mechanical, Type 21
		. Silicon Carbide/Silicon Carbide/Buna-N
		Hardware -300 Series Stainless
CORD ENTRY	Υ	. 10 ft. (3m) or 20 ft. (6m) Cord with plug and
		Pressure Gromment for sealing and strain relief
UPPER BEAF	RING	. Single Row, Ball, Oil Lubricated
		Single Row, Ball, Oil Lubricated
MOTOR:	Design	
	Insulation	
SINGLE PHA		. Permanent Split Capacitor (PSC).
		Includes thermal overload protection in motor
LEVEL CONT	ROL:	P
	SP33	None
		. Wide Angle, Mechanical, 10 ft (3m) cord
		or 20 ft (6m) cord
	SP33VF	. Vertical Float, PVC, Snap Action,
		. Diaphragm switch, pressure operated,
		Snap Action, normally open, 10 Ft. (3m) cord
		10 ft (3m) cord or 20 ft. (6m) cord
мінимим ѕі	UMP DIA:	(- , (,
	SP33A	. 18" (457mm)
	SP33, SP33VF	
	SP33D	11" (279mm)
		(=: (=: -::-/)



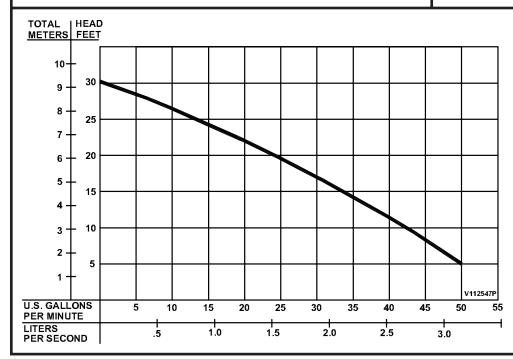
Series: SP33, 1/3**HP,** 3450**RPM,** 60**Hz**



CSA 108 UL 778 LR16567

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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PUMPS & SYSTEMS

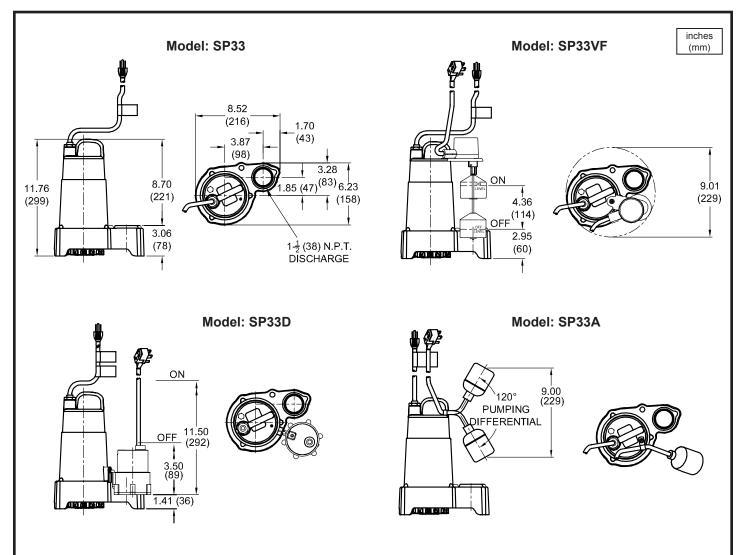
SECTION B PAGE 13 DATE 7/04

Series SP33

1/2" Spherical Solids Handling Manual & Automatic, Sump /Effluent



Submersible Effluent Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
SP33	112547	1/3	120/1	60	3450	В	5.8	10 ft. (3m)	14/3	SJTOW
SP33X	112548	1/3	120/1	60	3450	В	5.8	20 ft. (6m)	14/3	SJTOW
SP33A	112549	1/3	120/1	60	3450	В	5.8	10 ft. (3m)	14/3	SJTOW
SP33AX	112550	1/3	120/1	60	3450	В	5.8	20 ft. (6m	14/3	SJTOW
SP33VF	112551	1/3	120/1	60	3450	В	5.8	10 ft. (3m)	14/3	SJTOW
SP33VFX	112552	1/3	120/1	60	3450	В	5.8	20 ft. (6m	14/3	SJTOW
SP33D	118371	1/3	120/1	60	3450	В	5.8	10 ft. (3m)	14/3	SJTOW

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION B PAGE 14 DATE 7/04





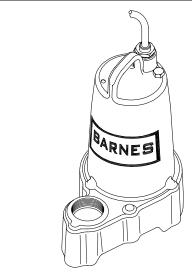
Series SP33HTX

High Temperature - 1/2" Spherical Solids Handling Manual & Automatic, SSump /Effluent

Submersible Effluent Pumps

LIQUID TEM MOTOR HOL		
IMPELLER:	Design	10 Vane vortex, with pump out vanes on back side. Balanced, ISO G6.3
		,
	Material	
SHAFT		Stainless Steel
O-RINGS		Buna-N
HARDWARE		300 Series Stainless Steel
PAINT		Air Dry Fnamel
SEAL:		Single Mechanical, Type 21
SEAL.		
	Material	Silicon Carbide/Silicon Carbide/Buna-N
		Hardware -300 Series Stainless
CORD ENTR	Υ	20 ft. (6m) Cord with plug and Pressure
		Gromment for sealing and strain relief
UPPER BEA	RING	Single Row, Ball, Oil Lubricated
		Single Row, Ball, Oil Lubricated
MOTOR:	Design	
	Insulation	Class B
SINGLE PHA	\SE	Permanent Split Capacitor (PSC).
		Includes thermal overload protection in motor

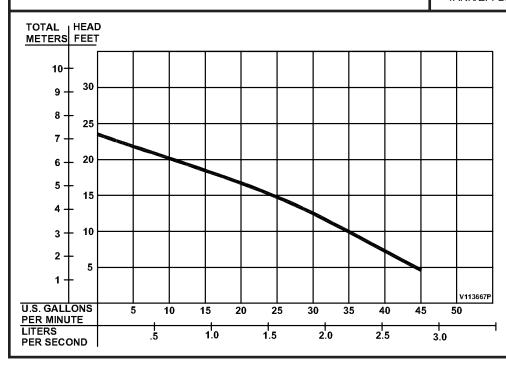
SP33HT..... 12" (305mm)



Series: SP33HTX 1/3HP, 3450RPM, 60Hz

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN **HIGH TEMPERATURE** SEPTIC TANK/EFFLUENT APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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MINUMUM SUMP DIA:

PUMPS & SYSTEMS

SECTION B PAGE 15 DATE 4/04

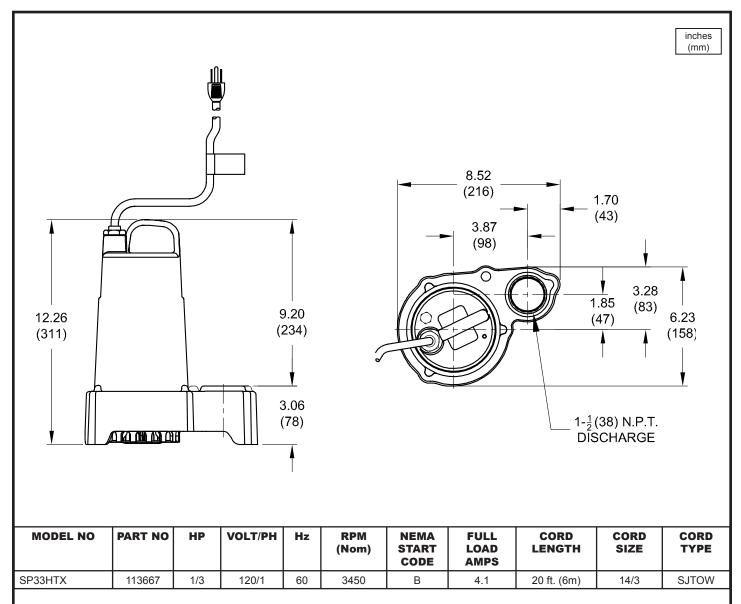
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Series SP33HTX

High Temperature - 1/2" Spherical Solids Handling Manual & Automatic, Sump /Effluent



Submersible Effluent Pumps



IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.
 footnotesize 1. This pump is not appropriate for those applications specified as class I division I hazardous locations.
- 3.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE

4.) MUST USE A **HIGH TEMPERATURE** WIDE ANGLE LEVEL CONTROL IN HIGH TEMPERATURE APPLICATIONS.

SECTION B PAGE 16 DATE 4/04



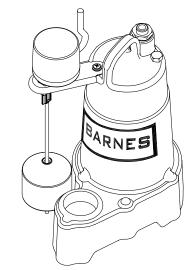


Series SP33VFAL

1/2" Spherical Solids Handling Automatic w/Alarm, Sump /Effluent

Submersible Effluent Pumps

DISCHARGE1½" NPT, Female, Vertical LIQUID TEMPERATURE 104°F (40°C) Continuous MOTOR HOUSING Cast Iron PUMP STRAINER Thermoplastic side Balanced, ISO G6.3 Material Cast Iron SHAFT Stainless Steel O-RINGS Buna-N HARDWARE 300 Series Stainless Steel PAINT Air Dry Enamel SEAL: Design Single Mechanical, Type 21 Material Silicon Carbide/Silicon Carbide/Buna-N Hardware -300 Series Stainless CORD ENTRY...... 10 ft. (3m) or 20 ft. (6m) Cord with plug and Pressure gromment for sealing and strain relief UPPER BEARING......Single Row, Ball, Oil Lubricated LOWER BEARING...... Single Row, Ball, Oil Lubricated MOTOR: Design Oil Filled Insulation...... Class B SINGLE PHASE...... Permanent Split Capacitor (PSC). Includes thermal overload protection in motor LEVEL CONTROL Vertical float, PVC, snap action, 10 ft (3m) or 20 ft. (6m) cord and integrated battery operated alarm (P/N: 112915) with 8 ft. (2.4m) cord. (See Section D page 9A for Alarm) MINUMUM SUMP DIA 12" (305mm)



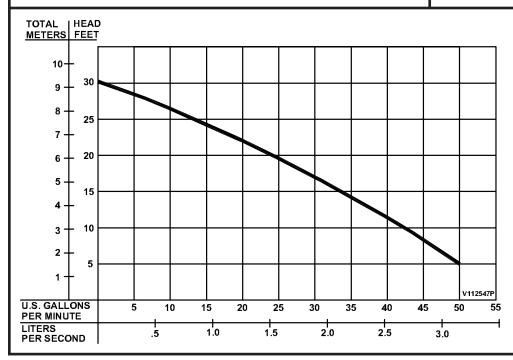
Series: SP33VFAL, 1/3HP, 3450RPM, 60Hz



CSA 108 UL 778 LR16567

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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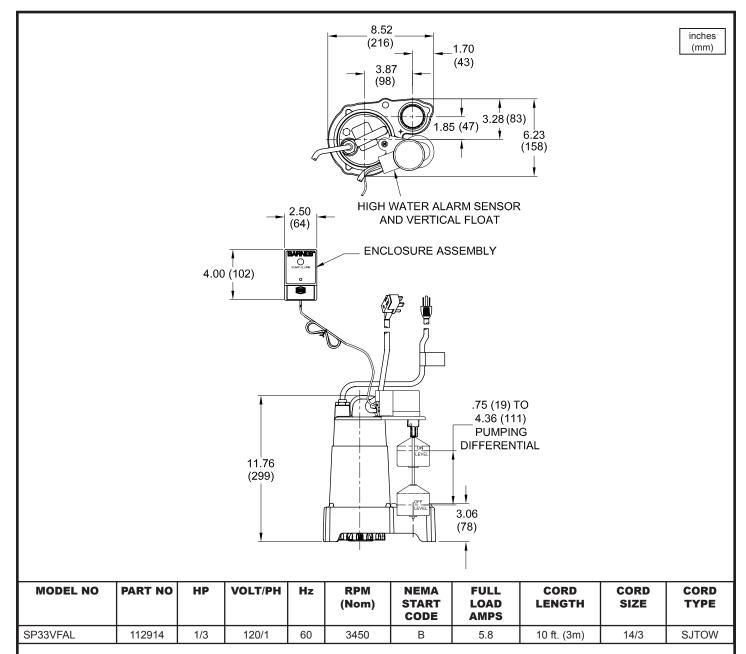
SECTION B PAGE 17 DATE 4/04

Series SP33VFAL

1/2" Spherical Solids Handling Automatic w/Alarm, Sump /Effluent



Submersible Effluent Pumps



IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION B PAGE 18 DATE 4/04





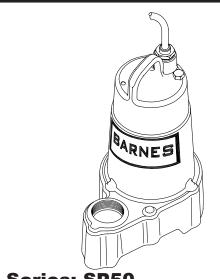


Series SP50

1/2" Spherical Solids Handling Manual & Automatic, Sump /Effluent

Submersible Effluent Pumps

DISCHARGE1½" NPT, Female, Vertical LIQUID TEMPERATURE 104°F (40°C) Continuous MOTOR HOUSING Cast Iron PUMP STRAINER Thermoplastic side. Balanced, ISO G6.3 Material Cast Iron SHAFTStainless Steel O-RINGS Buna-N HARDWARE 300 Series Stainless Steel PAINT Air Dry Enamel SEAL: Design Single Mechanical, Type 21 Material Silicon Carbide/Silicon Carbide/Buna-N Hardware -300 Series Stainless Gromment for sealing and strain relief UPPER BEARING...... Single Row, Ball, Oil Lubricated LOWER BEARING...... Single Row, Ball, Oil Lubricated MOTOR: DesignOil Filled Insulation...... Class B SINGLE PHASE......Permanent Split Capacitor (PSC). Includes thermal overload protection in motor LEVEL CONTROL SP50X None SP50AX......Wide angle, Mechanical, 20 ft. (6m) cord SP50VFX Vertical float, PVC, snap action, 20 ft (6m) cord MINUMUM SUMP DIA: SP50AX......18" (457mm) SP50X & SP50VXF 12" (305mm)



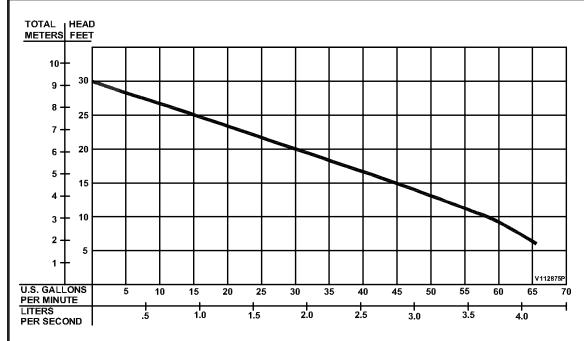
Series: SP50 1/2HP, 3450RPM, 60Hz



CSA 108 UL 778 LR16567

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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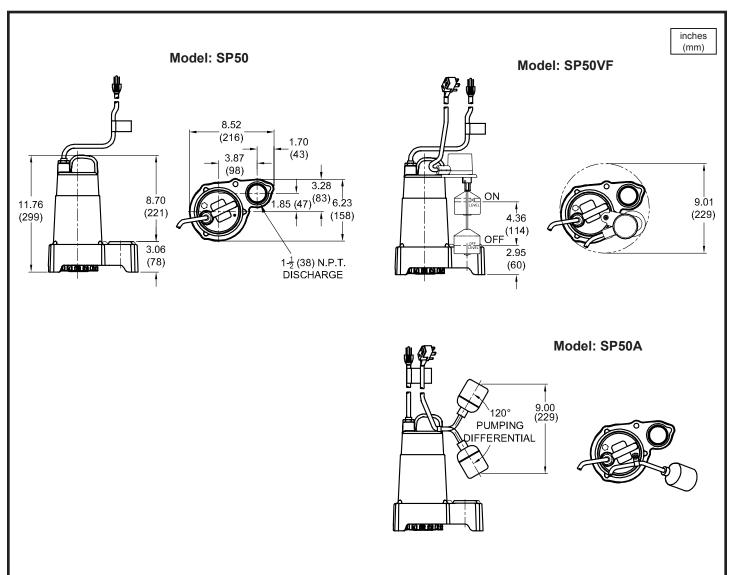
SECTION B PAGE 19 DATE 4/04

Series SP50

1/2" Spherical Solids Handling Manual & Automatic, Sump /Effluent



Submersible Effluent Pumps



MODEL NO	PART NO	НР	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
SP50X	112875	1/2	120/1	60	3450	Α	6.8	20 ft. (6m)	14/3	SJTOW
SP50AX	112877	1/2	120/1	60	3450	А	6.8	20 ft. (6m)	14/3	SJTOW
SP50VFX	112879	1/2	120/1	60	3450	Α	6.8	20 ft. (6m)	14/3	SJTOW

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- .) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION B PAGE 20 DATE 4/04



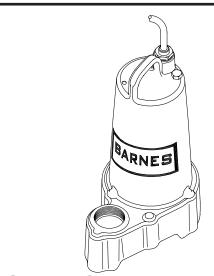


Series SP75X

1/2" Spherical Solids Handling Manual & Automatic, Sump /Effluent

Submersible Effluent Pumps

DISCHARGE1½" NPT, Female, Vertical LIQUID TEMPERATURE 104°F (40°C) Continuous MOTOR HOUSING Cast Iron PUMP STRAINER Thermoplastic side. Balanced, ISO G6.3 Material Cast Iron SHAFT Stainless Steel O-RINGS Buna-N HARDWARE 300 Series Stainless Steel PAINT Air Dry Enamel SEAL: Design Single Mechanical, Type 21 Material Silicon Carbide/Silicon Carbide/Buna-N Hardware -300 Series Stainless Gromment for sealing and strain relief UPPER BEARING...... Single Row, Ball, Oil Lubricated LOWER BEARING...... Single Row, Ball, Oil Lubricated MOTOR: Design Oil Filled Insulation...... Class B SINGLE PHASE......Permanent Split Capacitor (PSC). Includes thermal overload protection in motor LEVEL CONTROL SP75X None SP75AX......Wide angle, Mechanical, 20 ft. (6m) cord SP75VFX Vertical float, PVC, snap action, 20 ft. (6m) cord



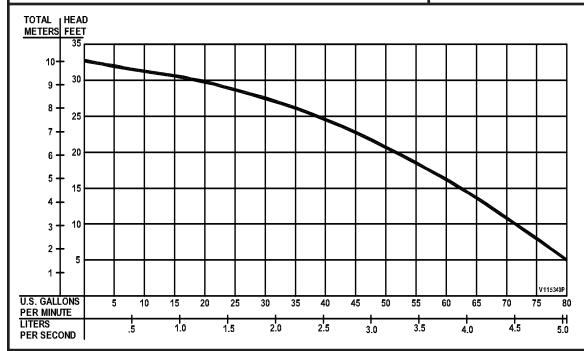
Series: SP75 3/4HP, 3450RPM, 60Hz



CSA 108 UL 778 LR16567

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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MINUMUM SUMP DIA:

PUMPS & SYSTEMS

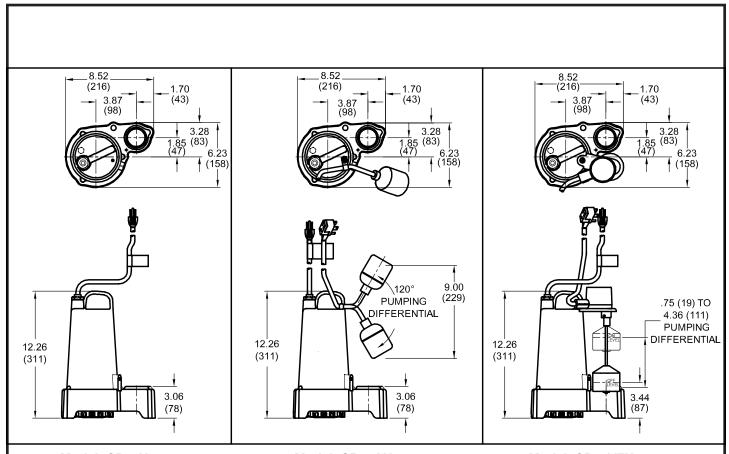
SECTION B PAGE 21 DATE 4/04

Series SP75X

1/2" Spherical Solids Handling Manual & Automatic, Sump /Effluent



Submersible Effluent Pumps



Model: SP75X Model: SP75AX Model: SP75VFX

MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
SP75X	115368	3/4	120/1	60	3450	Н	9.8	20 ft. (6m)	14/3	SJTOW
SP75AX	115369	3/4	120/1	60	3450	Н	9.8	20 ft. (6m)	14/3	SJTOW
SP75VFX	115370	3/4	120/1	60	3450	Н	9.8	20 ft. (6m)	14/3	SJTOW

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION B PAGE 22 DATE 4/04





Series EP52X

3/4" Spherical Solids Handling Manual & Automatic

Submersible Effluent Pumps

PUMP STRAINER Thermoplastic

IMPELLER: Design 10 Vane vortex, with pump out vanes on back

side. Balanced, ISO G6.3

 Material
 Cast Iron

 SHAFT
 Stainless Steel

 O-RINGS
 Buna-N

SEAL: Design Single Mechanical, Type 21

Material Silicon Carbide/Silicon Carbide/Buna-N Hardware -300 Series Stainless

pressure Gromment for sealing and strain relief

MOTOR: Design Oil Filled Insulation...... Class B

SINGLE PHASE......Permanent Split Capacitor (PSC).

Includes thermal overload protection in motor

LEVEL CONTROL

EP52X None

EP52AX...... Wide angle, Mechanical, 20 ft. (6m) cord

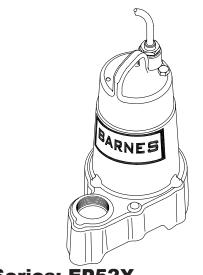
with Piggy-Back plug

EP52VFX Vertical float, PVC, snap action, 20 ft (6m) cord

.....with Piggy-Back plug

MINUMUM SUMP DIA:

ESP52AX 18" (457mm) ESP52X & EP52VXF . 12" (305mm)



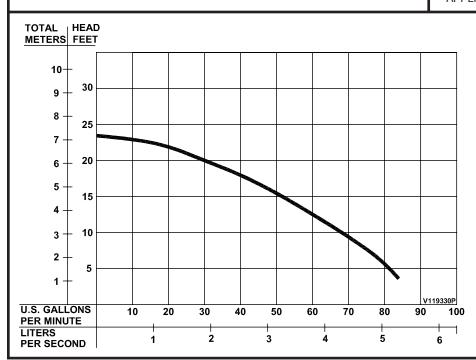
Series: EP52X 1/2HP, 3450RPM, 60Hz



CSA 108 UL 778 LR16567

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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SECTION B PAGE 23 DATE 11/04

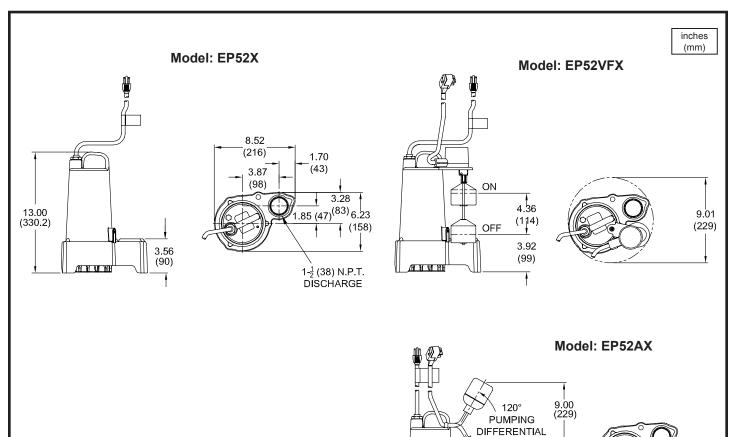
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Series EP52X

3/4" Spherical Solids Handling Manual & Automatic



Submersible Effluent Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
EP52X	119330	1/2	240/1	60	3450	D	3.4	20 ft. (6m)	14/3	SJTOW
EP52AX	119411	1/2	240/1	60	3450	D	3.4	20 ft. (6m)	14/3	SJTOW
EP52VFX	119412	1/2	240/1	60	3450	D	3.4	20 ft. (6m)	14/3	SJTOW

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- .) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION B PAGE 24 DATE 11/04





Series EP72X

3/4" Spherical Solids Handling Manual & Automatic

Submersible Effluent Pumps

DISCHARGE1½" NPT, Female, Vertical LIQUID TEMPERATURE 104°F (40°C) Continuous MOTOR HOUSING Cast Iron BODY & STRAINER Thermoplastic side Balanced, ISO G6.3 Material Cast Iron SHAFT Stainless Steel O-RINGS Buna-N HARDWARE 300 Series Stainless Steel PAINT Air Dry Enamel SEAL: Design Single Mechanical, Type 21 Material Silicon Carbide/Silicon Carbide/Buna-N Hardware -300 Series Stainless CORD ENTRY 20 ft. (6m) Quick connect cord with plug and

MOTOR: Design Oil Filled Insulation..... Class B

SINGLE PHASE......Permanent Split Capacitor (PSC).

Includes thermal overload protection in motor

LEVEL CONTROL EP72XNone

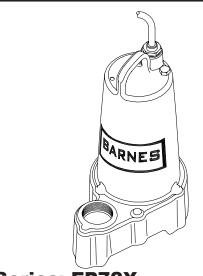
EP72AX..... Wide angle, Mechanical, 20 ft. (6m) cord

with Plggy-Back plug

EP72VFX Vertical float, PVC, snap action, 20 ft. (6m) cord

with Plggy-Back plug

MINUMUM SUMP DIA:



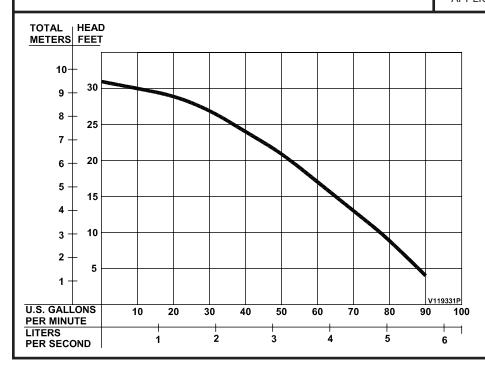
Series: EP72X 3/4HP, 3450RPM, 60Hz



CSA 108 UL 778 LR16567

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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PUMPS & SYSTEMS

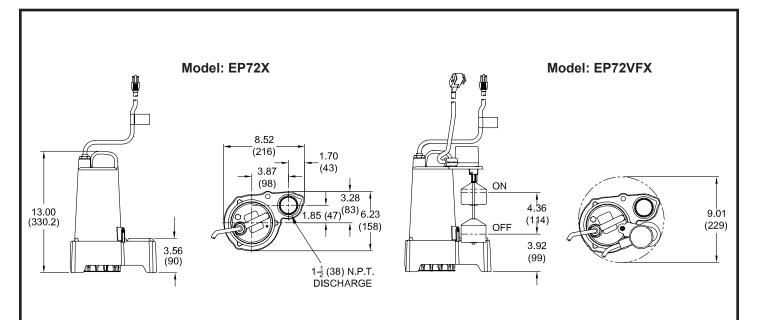
SECTION B PAGE 25 DATE 11/04

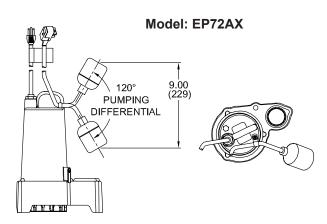
Series EP72X

3/4" Spherical Solids Handling Manual & Automatic



Submersible Effluent Pumps





MODEL NO	PART NO	НР	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
EP72X	119331	3/4	240/1	60	3450	Α	4.3	20 ft. (6m)	14/3	SJTOW
EP72AX	119413	3/4	240/1	60	3450	А	4.3	20 ft. (6m)	14/3	SJTOW
EP72VFX	119414	3/4	240/1	60	3450	Α	4.3	20 ft. (6m)	14/3	SJTOW

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION B PAGE 26 DATE 11/04



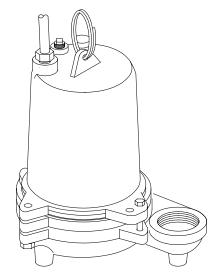




3/4" Spherical Solids Handling Manual & Automatic - Submersible

Submersible Effluent Pumps

		2" NPT, Female, Vertical
LIQUID TEMP		
		77°F (25°C) Continuous
		104°F (40°C) Continuous
VOLUTE		(BP) Cast Iron, (BP-BR) Bronze
		(BP) Cast Iron, (BP-BR) Bronze
SEAL PLATE		(BP) Cast Iron, (BP-BR) Bronze
IMPELLER:		2 Vane open, Dynamically Balanced, ISO G6.3
	Material	(BP) Polypropylene with stainless insert
		(BP-BR) Bronze 81-3-7-9
SHAFT		416 Stainless Steel
SQUARE RIN	IGS	Buna-N
HARDWARE		300 Series Stainless Steel
PAINT		Air Dry Enamel
SEAL:	Design	Single Mechanical, Oil-Filled Reservoir,
	•	Secondary Exclusion Seal
	Material	Carbon/Ceramic/Buna-N
CORD ENTR	Υ	15 ft. (5m) Quick Disconnect Cord with plug
		On 115 volt, Pressure Gromment for sealing
		and strain relief
UPPER BEAL	RING	Single Row, Ball, Oil Lubricated
		Single Row, Ball, Oil Lubricated
		Permanent Split Capacitor (PSC). Oil Filled.
		Includes Overload Protection in Motor
	Insulation	
LEVEL CONT		"A" - Wide Angle, PVC, Mechanical, 15 ft (5m)
LEVELOON		cord with Piggy-Back Plug, N/O
		"AU" - Wide Angle, Polypropylene, Mechanical,
		N/O, Integral to pump. ON and OFF points are
		adjustable
		"VF" - Vertical Float, PVC, Snap Action,
		15 ft (5m) cord, with Piggy-Back plug. OFF
		point ONLY is adjustable
OBTIONAL E	OHIDMENT	Seal Material, Additional Cable, Bronze Impeller
OF HONAL E	QUIFIVIEN I	Seai ivialeriai, Additional Cable, Dionze Impeller



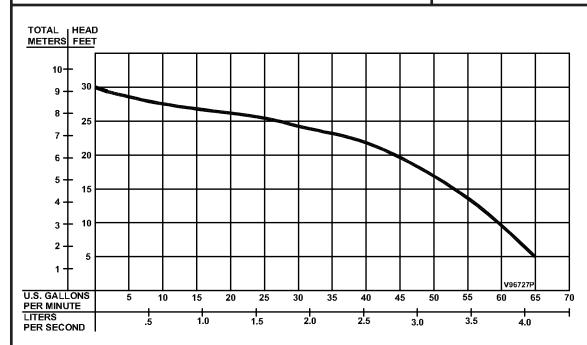
Series: BP314 & BP324 1/3**HP, 1750RPM, 60Hz**



CSA 108 UL 778 LR16567

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

A Crane Co. Company

PUMPS & SYSTEMS

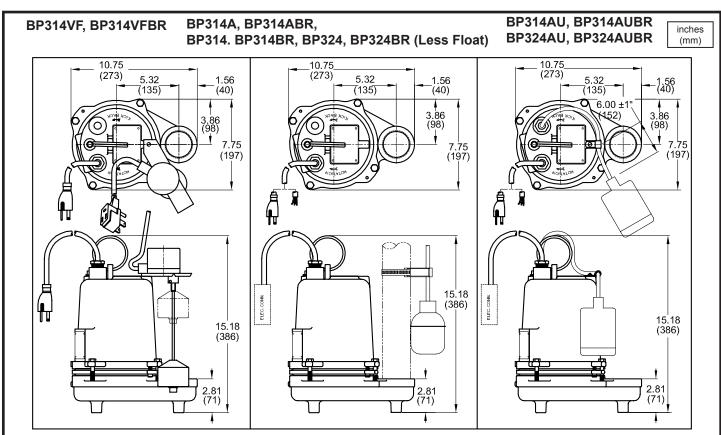
SECTION B PAGE 27 DATE 10/05

Series BP

3/4" Spherical Solids Handling Manual & Automatic - Submersible



Submersible Effluent Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
BP314	096727	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314A	096728	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314AU	096729	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314VF	100834	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314BR	096732	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314ABR	096733	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314AUBR	096734	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314VFBR	100835	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP324	096730	1/3	230/1	60	1750	Α	4.0	13.0	14/3	SJTOW	0.375 (9.5)
BP324AU	096731	1/3	230/1	60	1750	А	4.0	13.0	14/3	SJTOW	0.375 (9.5)
BP324BR	096735	1/3	230/1	60	1750	Α	4.0	13.0	14/3	SJTOW	0.375 (9.5)
BP324AUBR	096736	1/3	230/1	60	1750	Α	4.0	13.0	14/3	SJTOW	0.375 (9.5)

Mechanical Switch on BP-A, cord 16/2, SJOW, Piggy-Back Plug. Mechanical Switch on BP-AU, cord 14/2, SJOW Vertical Switch on BP-VF, cord 16/2, SJOW, Piggy-Back Plug

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION B PAGE 28 DATE 10/05





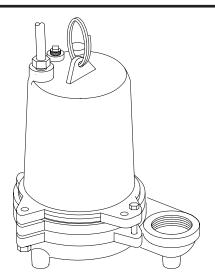


Series BP-HT

High Temperature - 3/4" Spherical Solids Handling
Manual & Automatic - Submersible

Submersible Effluent Pumps

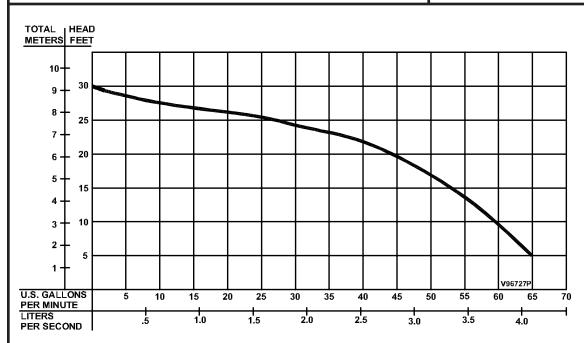
DISCHARGE		2" NPT, Female, Vertical
LIQUID TEMP	ERATURE	200°F (93°C) Continuous
		(BP) Cast Iron, (BP-BR) Bronze
		(BP) Cast Iron, (BP-BR) Bronze
		(BP) Cast Iron, (BP-BR) Bronze
IMPELLER:	Design	2 Vane open, Dynamically Balanced, ISO G6.3
	Material	Bronze 81-3-7-9
SHAFT		416 Stainless Steel
	GS	
		300 Series Stainless Steel
	5 .	
SEAL:	Design	Single Mechanical, Oil-Filled Reservoir,
		Secondary Exclusion Seal
	Material	Carbon/Ceramic/Buna-N
CORD ENTRY	,	15 ft. (5m) Quick Disconnect Cord with plug
		On 115 volt, Pressure Gromment for sealing
		and strain relief
LIDDED BEAD	PING	Single Row, Ball, Oil Lubricated
		Single Row, Ball, Oil Lubricated
MOTOR, SING	BLE PHASE	Permanent Split Capacitor (PSC). Oil Filled.
		Includes Overload Protection in Motor
	Insulation	Class B
LEVEL CONTI	ROLS	"A" - High Temperature, Wide Angle,
		Mechanical, N/O, 15 ft (5m) cord with
		Piggy-Back Plug,
		"AU" - High Temperature, Wide Angle,
		Polypropylene, Mechanical, N/O Integral to
		pump. ON and OFF points are adjustable
OPTIONAL EC	QUIPMENT	Seal Material, Additional Cable
		•



Series: BP314HT & BP324HT 1/3HP, 1750RPM, 60Hz, Cast Iron & Bronze

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN **HIGH TEMPERATURE** SEPTIC TANK/EFFLUENT APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

A Crane Co. Company

PUMPS & SYSTEMS

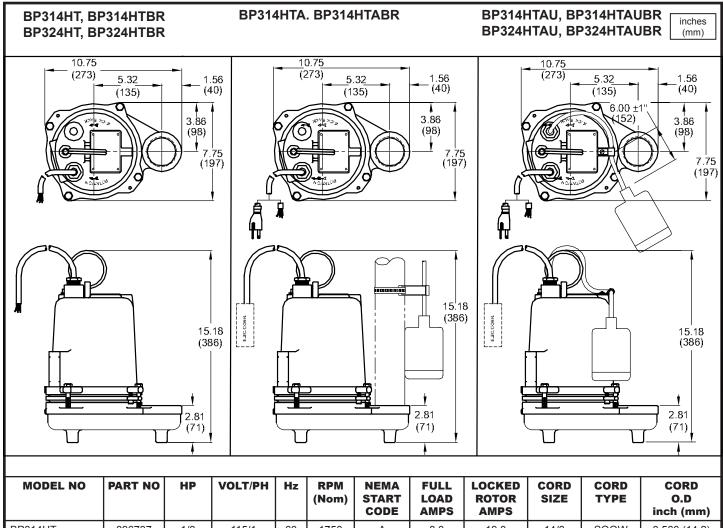
SECTION B PAGE 29 DATE 10/05

Series BP-HT

High Temperature - 3/4" Spherical Solids Handling Manual & Automatic - Submersible



Submersible Effluent Pumps



MODEL NO	PART NO	ПР	VOLI/PH	п2	(Nom)	START CODE	LOAD AMPS	ROTOR AMPS	SIZE	TYPE	O.D inch (mm)
BP314HT	096737	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP314HTA	096738	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP314HTAU	096739	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP314HTBR	096742	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP314HTABR	096743	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP314HTAUBR	096744	1/3	115/1	60	1750	Α	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP324HT	096740	1/3	230/1	60	1750	Α	4.0	13.0	14/3	SOOW	0.560 (14.2)
BP324HTAU	096741	1/3	230/1	60	1750	Α	4.0	13.0	14/3	SOOW	0.560 (14.2)
BP324HTBR	096745	1/3	230/1	60	1750	Α	4.0	13.0	14/3	SOOW	0.560 (14.2)
BP324HTAUBR	096746	1/3	230/1	60	1750	А	4.0	13.0	14/3	SOOW	0.560 (14.2)

Mechanical Switch on BP314HTA, cord 14/2, SJOOW, 0.370 (9.4MM) O.D., Piggy-Back Plug. Mechanical Switch on BP314HTAU & BP324HTAU, cord 14/2, SJOOW, 0.370 (9.4MM) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.
 footnotesize 1. This pump is not appropriate for those applications specified as class I division I hazardous locations.
- 3.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE
- 4.) MUST USE A HIGH TEMPERATURE WIDE ANGLE LEVEL CONTROL IN HIGH TEMPERATURE APPLICATIONS.

SECTION B PAGE 30 DATE 10/05







2" Spherical Solids Handling Manual & Automatic

Submersible Non-Clog Pumps

DISCHARGE2" NPT, Female, Vertical LIQUID TEMPERATURESE411: 77°F (25°C) Continuous SE421: 104°F (40°C) Continuous VOLUTE......Cast Iron ASTM A-48, Class 30 MOTOR HOUSINGCast Iron ASTM A-48, Class 30 SEAL PLATECast Iron ASTM A-48, Class 30 IMPELLER: Design2 Vane, Open with pump out vanes on back side Dynamically Balanced, ISO G6.3 MaterialCast Iron ASTM A-48, Class 30 SHAFT416 Stainless Steel SQUARE RINGSBuna-N HARDWARE300 Series Stainless Steel PAINT.....Air Dry Enamel Design Single Mechanical, Oil Filled Reservoir, SEAL: Secondary Exclusion Seal MaterialCarbon/Ceramic/Buna-N Hardware - 300 Series Stainless CORD ENTRY15 ft. (5m) Quick Disconnect Cord with plug On 115 Volt, Pressure Gromment for sealing and strain relief UPPER BEARING......Single Row, Ball, Oil Lubricated LOWER BEARING......Single Row, Ball, Oil Lubricated MOTOR: DesignNEMA L Torque Curve, Oil Filled, Squirrel Cage Induction InsulationClass B SINGLE PHASE.....Permanent Split Capacitor (PSC) Includes Overload Protection in Motor LEVEL CONTROL"A" - Wide Angle, PVC, Mechanical, 15 ft (5m) cord with Piggy-Back Plug, N/O "AU"- Wide Angle, Polypropylene, Mechanical, N/O Integral to pump. ON and OFF Points are adjustable "VF" - Vertical Float, PVC, Snap Action, 15 ft (5m) cord, with Piggy-Back plug. OFF point ONLY is adjustable OPTIONAL EQUIPMENTSeal Material, Additional Cord

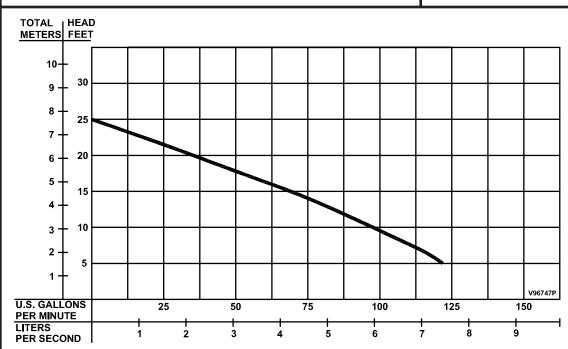


Series: SE (SE411 & SE421) .4HP, 1750RPM, 60Hz



DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

A Crane Co. Company

PUMPS & SYSTEMS

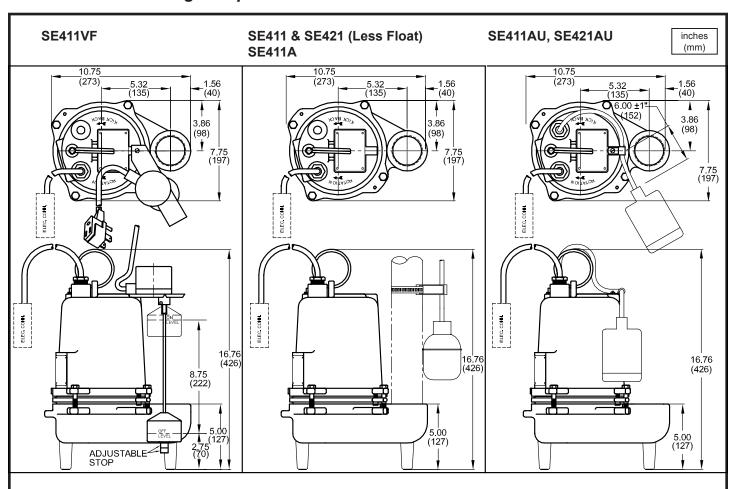
SECTION C PAGE 1 DATE 4/04

Series SE

2" Spherical Solids Handling Manual & Automatic



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
SE411	096747	0.4	115/1	60	1750	С	12.0	19.0	14/3	SJTOW	0.375 (9.5)
SE411A	096748	0.4	115/1	60	1750	С	12.0	19.0	14/3	SJTOW	0.375 (9.5)
SE411AU	096749	0.4	115/1	60	1750	С	12.0	19.0	14/3	SJTOW	0.375 (9.5)
SE411VF	100836	0.4	115/1	60	1750	С	12.0	19.0	14/3	SJTOW	0.375 (9.5)
SE421	096750	0.4	230/1	60	1750	С	6.2	13.0	14/3	SJTOW	0.375 (9.5)
SE421AU	096751	0.4	230/1	60	1750	С	6.2	13.0	14/3	SJTOW	0.375 (9.5)

Mechanical Switch on SE-A, cord 16/2, SJOW, Piggy-Back Plug Mechanical Switch on SE-AU, cord 14/2, SJOW, 0.370 (9.4mm) O.D. Vertical Switch on SE-VF, cord 16/2, SJOW, 0.320 (8.1mm) O.D. Piggy-Back Plug

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 2 DATE 4/04





Series SE-HT

2" Spherical Solids Handling High Temperature - Manual & Automatic

Submersible Non-Clog Pumps

IMPELLER: Design2 Vane, Open with pump out vanes on back side

Dynamically Balanced, ISO G6.3

MaterialCast Iron ASTM A-48, Class 30

SHAFT416 Stainless Steel

SQUARE RINGSBuna-N

HARDWARE300 Series Stainless Steel

PAINTAir Dry Enamel

SEAL: Design Single Mechanical, Oil Filled Reservoir,

Secondary Exclusion Seal MaterialCarbon/Ceramic/Buna-N

Hardware -300 Series Stainless

CORD ENTRY15 ft. (5m) Cord with plug On 115 volt, Pressure

Gromment for sealing and strain relief

UPPER BEARING......Single Row, Ball, Oil Lubricated LOWER BEARING.....Single Row, Ball, Oil Lubricated

MOTOR: DesignNEMA L Torque Curve, Oil Filled, Squirrel Cage

Induction

InsulationClass F
SINGLE PHASE......Permanent Split Capacitor (PSC)

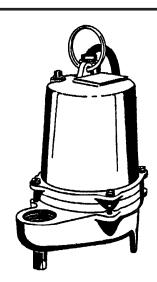
Includes Overload Protection in Motor

LEVEL CONTROL"A" - Wide Angle, PVC, Mechanical, 15 ft (5m) cord

with Piggy-Back Plug, N/O

"AU"- Wide Angle, Polypropylene, Mechanical, N/O Integral to pump. ON and OFF Points are adjustable

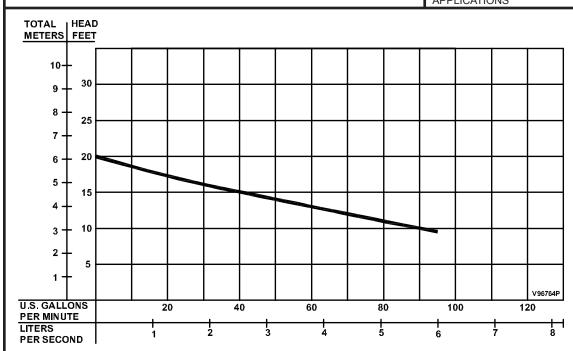
OPTIONAL EQUIPMENTSeal Material, Additional Cord, Strainer



Series: SE-HT (SE411HT & SE421HT) .4HP, 1750RPM, 60Hz

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR HIGH TEMPERATURE RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

A Crane Co. Company

PUMPS & SYSTEMS

SECTION C PAGE 3 DATE 4/04

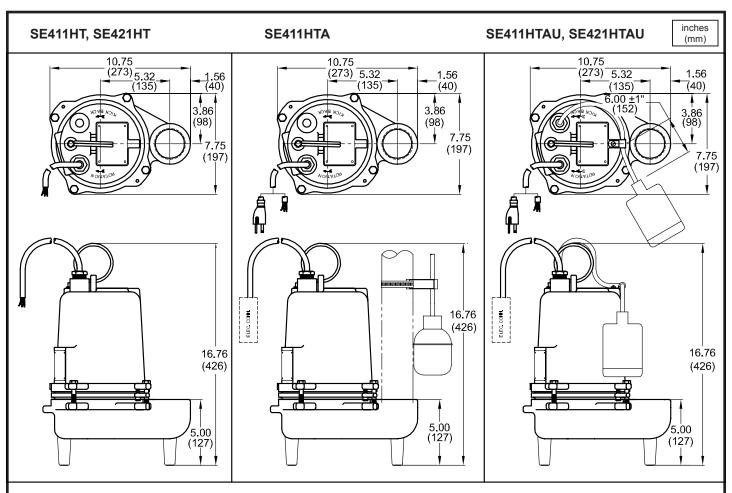
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Series SE-HT

2" Spherical Solids Handling Manual & Automatic - High Temperature



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
SE411HT	096764	0.4	115/1	60	1750	Α	10.0	26.0	14/3	SOOW	0.560 (14.2)
SE411HTA	096765	0.4	115/1	60	1750	Α	10.0	26.0	14/3	SOOW	0.560 (14.2)
SE411HTAU	096766	0.4	115/1	60	1750	Α	10.0	26.0	14/3	SOOW	0.560 (14.2)
SE421HT	096767	0.4	230/1	60	1750	А	4.0	13.0	14/3	SOOW	0.560 (14.2)
SE421HTAU	096768	0.4	230/1	60	1750	Α	4.0	13.0	14/3	SOOW	0.560 (14.2)

Mechanical Switch on SE-HTA, cord 14/2, SJOW, 0.370 (9.4mm) O.D. Piggy-Back Plug Mechanical Switch on SE-HTAU, cord 14/2, SJOW, 0.370 (9.4mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 3.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE
- 4.) MUST USE A **HIGH TEMPERATURE** WIDE ANGLE LEVEL CONTROL IN HIGH TEMPERATURE APPLICATIONS.

SECTION C PAGE 4 DATE 4/04





www.cranepumps.com

Series SEV

2" Spherical Solids Handling Manual & Automatic

Submersible Non-Clog Pumps

DISCHARGE2" NPT, Female, Vertical **LIQUID TEMPERATURE**77°F (25°C) Continuous

MOTOR HOUSING Cast Iron
PUMP BODY Cast Iron

IMPELLER: Design Multi-Vane, Vortex

Material Cast Iron

SHAFT 416 Stainless Steel

O-RINGS Buna-N

HARDWARE 300 Series Stainless Steel

PAINT Air Dry Enamel

CORD ENTRY...... 20 ft. (6m) Quick Disconnect Cord with

plug on 115 Volt, Pressure Gromment for

sealing and strain relief

SEAL: Design Single Mechanical, Oil Filled Reservoir

Material Carbon/Ceramic/Buna-N

Hardware -300 Series Stainless

UPPER BEARING....... Single Row, Ball, Oil Lubricated

LOWER BEARING...... Single Row, Ball, Oil Lubricated

MOTOR: Design Oil Filled

Insulation Class B

SINGLE PHASE...... Permanent Split Capacitor (PSC)

Includes Overload Protection in Motor

LEVEL CONTROL:

SEV412..... None

SEV412A Wide Angle, Mechanical, 20 ft (6m) cord

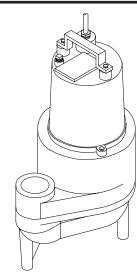
Pipe Mounted

SEV412VF Vertical Float, PVC, Snap Action

SEV412VFT...... Attached Vertical Float, PVC, Snap Action

SEV412AT Wide Angle, Mechanical, 20 ft (6m) cord

Pump Mounted



Series: SEV 0.5 HP, 3450RPM, 60Hz

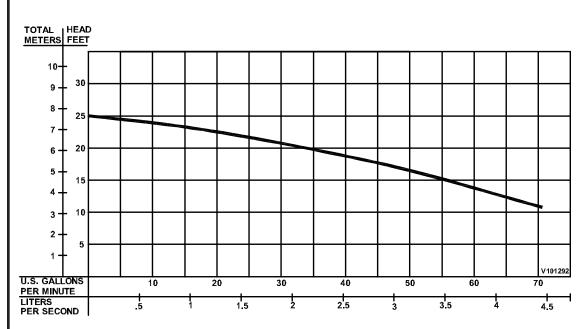


® CSA 108 - File No. LR16567 UL 778

NRTL\C

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

A Crane Co. Company

PUMPS & SYSTEMS

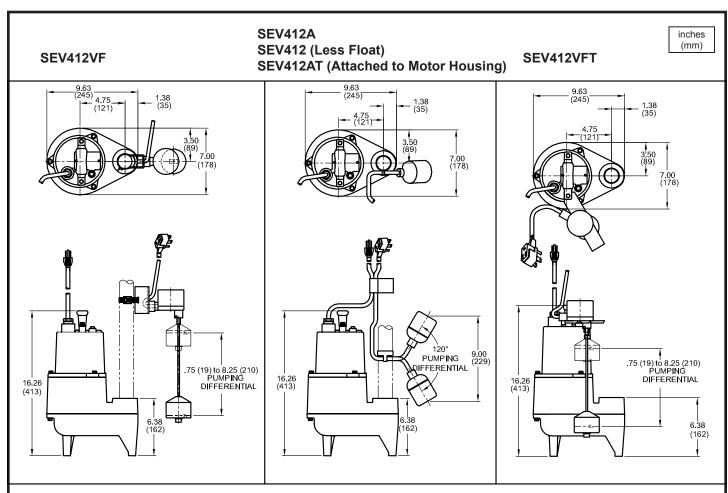
SECTION C PAGE 5 DATE 4/04

Series SEV

2" Spherical Solids Handling Manual & Automatic



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
SEV412	101292	0.5	115/1	60	3450	Н	10.50	20 ft. (6m)	14/3	SJTOW
SEV412A	101293	0.5	115/1	60	3450	Н	10.50	20 ft. (6m)	14/3	SJTOW
SEV412VF	101294	0.5	115/1	60	3450	Н	10.50	20 ft. (6m)	14/3	SJTOW
SEV412AT	103544	0.5	115/1	60	3450	Н	10.50	20 ft. (6m)	14/3	SJTOW
SEV412VFT	110404	0.5	115/1	60	3450	Н	10.50	20 ft. (6m)	14/3	SJTOW

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- .) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 6 DATE 4/04





Series SE & SEV

2" Spherical Solids Handling Manual & Automatic

Submersible Non-Clog Pumps

DISCHARGE2" NPT, Female, Vertical LIQUID TEMPERATURE104°F (40°C) Continuous VOLUTE......Cast Iron ASTM A-48, Class 30 MOTOR HOUSINGCast Iron ASTM A-48, Class 30 SEAL PLATECast Iron ASTM A-48, Class 30 IMPELLER: DesignSE - 2 Vane, Open. SEV - 12 Vane, Vortex.

with pump out vanes on back side. Dynamically

Balanced, ISO G6.3

MaterialSE - Cast Iron ASTM A-48, Class 30

SEV - 81-3-7-9 Bronze

SHAFT416 Stainless Steel SQUARE RINGSBuna-N

HARDWARE300 Series Stainless Steel

PAINTAir Dry Enamel

Design Single Mechanical, Oil Filled Reservoir, SEAL:

> Secondary Exclusion Seal MaterialCarbon/Ceramic/Buna-N

Hardware -300 Series Stainless

CORD ENTRY15 ft. (5m) Quick Disconnect Cord with plug On 115

Volt, Pressure Gromment for sealing and strain relief

UPPER BEARING......Single Row, Ball, Oil Lubricated LOWER BEARING......Single Row, Ball, Oil Lubricated

DesignNEMA L Torque Curve, Oil Filled, Squirrel Cage

Induction

InsulationClass B

SINGLE PHASE.....Permanent Split Capacitor (PSC) Includes Overload Protection in Motor

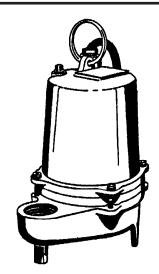
LEVEL CONTROL"A" - Wide Angle, PVC, Mechanical, 15 ft (5m) cord

with Piggy-Back Plug, N/O

"AU"- Wide Angle, Polypropylene, Mechanical, N/O Integral to pump. ON and OFF Points are adjustable "VF" - Vertical Float, PVC, Snap Action, 15 ft (5m) cord, with Piggy-Back plug. OFF point ONLY is

adjustable

OPTIONAL EQUIPMENTSeal Material, Additional Cord

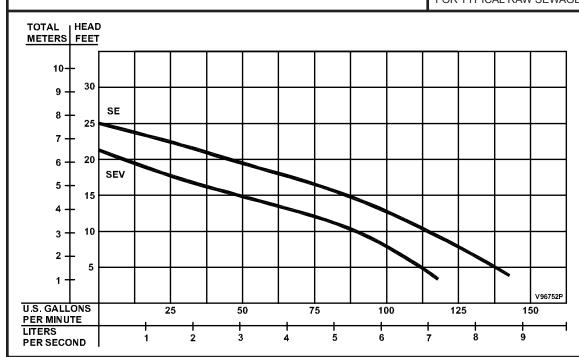


Series: SE & SEV .5HP, 1750RPM, 60Hz



DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

A Crane Co. Company

PUMPS & SYSTEMS

SECTION C PAGE 4/04 DATE

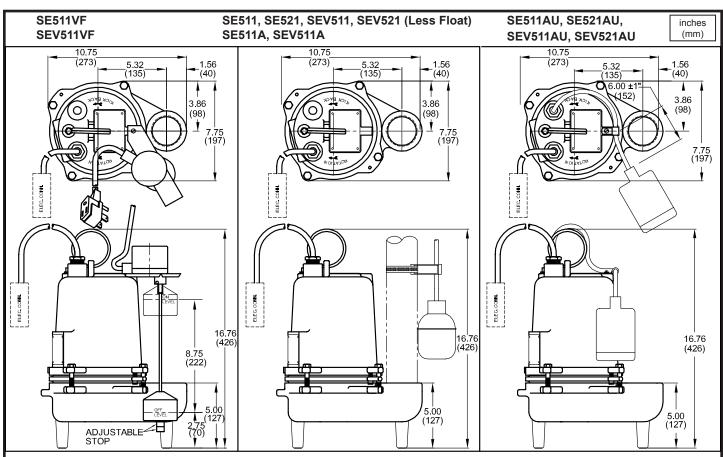
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Series SE & SEV

2" Spherical Solids Handling Manual & Automatic



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
SE511	096752	0.5	115/1	60	1750	Α	12.0	26.0	14/3	SJTOW	0.375 (9.5)
SE511A	096753	0.5	115/1	60	1750	Α	12.0	26.0	14/3	SJTOW	0.375 (9.5)
SE511AU	096754	0.5	115/1	60	1750	Α	12.0	26.0	14/3	SJTOW	0.375 (9.5)
SE511VF	100837	0.5	115/1	60	1750	Α	12.0	26.0	14/3	SJTOW	0.375 (9.5)
SE521	096755	0.5	230/1	60	1750	Α	6.2	13.0	14/3	SJTOW	0.375 (9.5)
SE521AU	096756	0.5	230/1	60	1750	Α	6.2	13.0	14/3	SJTOW	0.375 (9.5)
SEV511	096757	0.5	115/1	60	1750	Α	12.0	26.0	14/3	SJTOW	0.375 (9.5)
SEV511A	096758	0.5	115/1	60	1750	Α	12.0	26.0	14/3	SJTOW	0.375 (9.5)
SEV511AU	096759	0.5	115/1	60	1750	Α	12.0	26.0	14/3	SJTOW	0.375 (9.5)
SEV511VF	100838	0.5	115/1	60	1750	Α	12.0	26.0	14/3	SJTOW	0.375 (9.5)
SEV521	096760	0.5	230/1	60	1750	Α	6.2	13.0	14/3	SJTOW	0.375 (9.5)
SEV521AU	096761	0.5	230/1	60	1750	Α	6.2	13.0	14/3	SJTOW	0.375 (9.5)

Mechanical Switch on SE-A, cord 16/2, SJOW, Piggy-Back Plug Mechanical Switch on SE-AU, cord 14/2, SJOW, 0.370 (9.4mm) O.D. Vertical Switch on SE-VF, cord 16/2, SJOW, 0.320 (8.1mm) O.D. Piggy-Back Plug

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- .) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 8 DATE 4/04



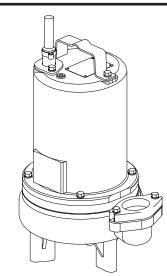




2" Spherical Solids Handling Manual & Automatic

Submersible Non-Clog Pumps

L.		
LIQUID TEMI	PERATURE	2" NPT, Female, Vertical, Bolt-on Flange 104°F (40°C) Continuous Cast Iron ASTM A-48, Class 30 Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
		•
IMPELLER:	· ·	2 Vane, open, with pump out vanes on back side. Dynamically balanced, ISO G6.3
	Material	Cast Iron ASTM A-48, Class 30
SHAFT		
	IGS	
		300 Series Stainless Steel
SEAL:	Design	
	Material	Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTR	Υ	15 ft. (5m) Cord with plug on 120 volt &
J COND LININ		.5HP, 240 volt, 1 phase. Quick connect
		· ·
l		custom molded for sealing and strain relief
		Single Row, Ball, Oil lubricated
LOWER BEA	RING	Single Row, Ball, Oil lubricated
MOTOR:	Design	NEMA L -Single Phase, NEMA B -Three phase
	•	Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	
SINGLE DHA		Permanent Split Capacitor (PSC)
SINGLE FILE	OL	Includes Overload Protection in Motor
TUDEE BUA	25	
THREE PHA	5E	200-240/480 is Tri-Voltage. Requires overload
		Protection to be included in control panel
LEVEL CON	FROL	"A" - Wide Angle, PVC, Mechanical, 15 ft (5m)
		cord with Piggy-Back Plug, N/O
		"AU"- Wide Angle, Polypropylene, Mechanical,
		N/O Integral to pump. ON and OFF Points are
		adjustable
ODTIONAL F	OUIDMENT	•
		Seal Material, Impeller Trims, Additional cord,
Normally Clos in control pan		ors with cord for 3 phase pumps (Requires relay



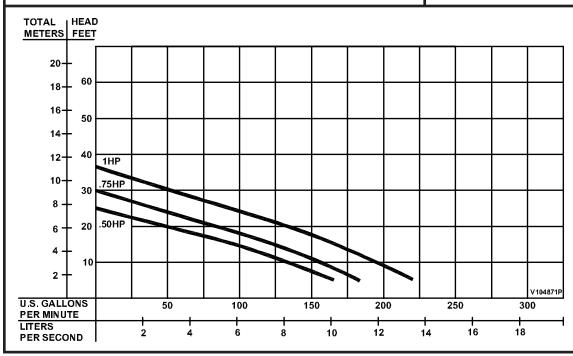
Series: SE (SE51 & SE52) .5 - 1.0 HP, 1750RPM, 60Hz



CSA 108 - File No. LR16567 UL 778

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

A Crane Co. Company

PUMPS & SYSTEMS

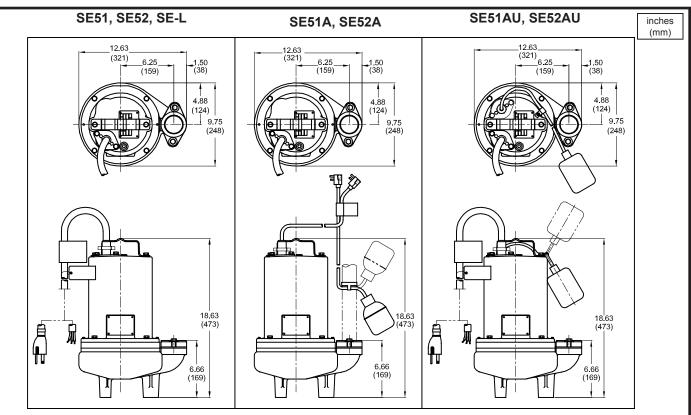
SECTION C PAGE 9 DATE 4/04

Series SE-L

2" Spherical Solids Handling Manual & Automatic



Submersible Non-Clog Pumps



					_			_			
MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
SE51	104871	0.5	120/1	60	1750	F	11.6	21.3	14/3	SJTOW	0.375 (9.5)
SE51A	104872	0.5	120/1	60	1750	F	11.6	21.3	14/3	SJTOW	0.375 (9.5)
SE51AU	104873	0.5	120/1	60	1750	F	11.6	21.3	14/3	SJTOW	0.375 (9.5)
SE52	104874	0.5	240/1	60	1750	J	5.9	14.9	14/3	SOW	0.530 (13.5)
SE52AU	104875	0.5	240/1	60	1750	J	5.9	14.9	14/3	SOW	0.530 (13.5)
SE594L	104881	0.5	200-240/3	60	1750	H/L	3.2/3.0	9.8/11.0	14/4	SOW	0.570 (14.5)
SE544L	104882	0.5	480/3	60	1750	K	1.5	5.3	14/4	SOW	0.570 (14.5)
SE554L	104883	0.5	600/3	60	1750	Н	1.0	3.4	14/4	SOW	0.570 (14.5)
SE774L	104884	0.75	200-240/1	60	1750	G/K	7.4/7.0	21.5/25.8	14/3	SOW	0.530 (13.5)
SE794L	104885	0.75	200-240/3	60	1750	H/K	4.8/4.5	13.7/15.4	14/4	SOW	0.570 (14.5)
SE744L	104886	0.75	480/3	60	1750	K	2.2	7.7	14/4	SOW	0.570 (14.5)
SE754L	104887	0.75	600/3	60	1750	L	1.5	7.2	14/4	SOW	0.570 (14.5)
SE1074L	104888	1.0	200-240/1	60	1750	D/G	8.8/8.3	21.5/25.8	14/3	SOW	0.530 (13.5)
SE1094L	104889	1.0	200-240/3	60	1750	E/H	5.1/4.9	13.7/15.4	14/4	SOW	0.570 (14.5)
SE1044L	104890	1.0	480/3	60	1750	Н	2.4	7.7	14/4	SOW	0.570 (14.5)
SE1054L	104891	1.0	600/3	60	1750	J	1.9	7.2	14/4	SOW	0.570 (14.5)

Mechanical Switch on SE51A, cord 16/2, SJOW, 0.320 (8.1mm) O.D., Piggy-Back Plug Mechanical Switch on SE-AU, cord 14/2, SJOW, 0.345 (8.8mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- .) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 10 DATE 4/04





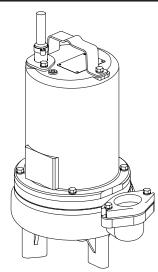


2" Spherical Solids Handling High Temperature - Manual & Automatic

Submersible Non-Clog Pumps

LIQUID TEMPERATURE VOLUTE MOTOR HOUSING SEAL PLATE IMPELLER: Design Material	
SQUARE RINGS	
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: Design	Single Mechanical
	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
CORD ENTRY	
COND LIGHT	Quick connect custom molded for sealing and
	strain relief
LIDDED BEADING	
	Single Row, Ball, Oil lubricated
	Single Row, Ball, Oil lubricated
MOTOR: Design	NEMA L -Single Phase Torque Curve
	Oil Filled, Squirrel Cage Induction
Insulation	Class F
SINGLE PHASE	Includes Overload Protection in Motor
LEVEL CONTROL	"A" - Wide Angle, PVC, Mechanical, 15 ft (5m)
	cord with Piggy-Back Plug, N/O
	"AU"- Wide Angle, Polypropylene, Mechanical,
	N/O Integral to pump. ON and OFF Points are
	adjustable
OPTIONAL FOLLIPMENT	Seal Material, Impeller Trims, Additional cord,
O HOMAL EGON MENT	*Inlet Strainer

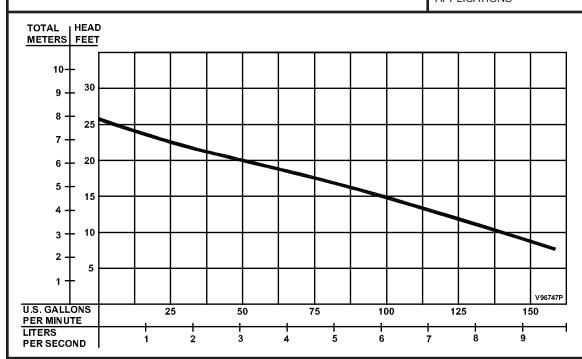
(* 3/4" Spherical solids handling with optional inlet strainer.)



Series: SE (SE51HT & SE52HT) **.5 HP, 1750RPM, 60Hz**

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR **HIGH TEMPERATURE** RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE_®

PUMPS & SYSTEMS

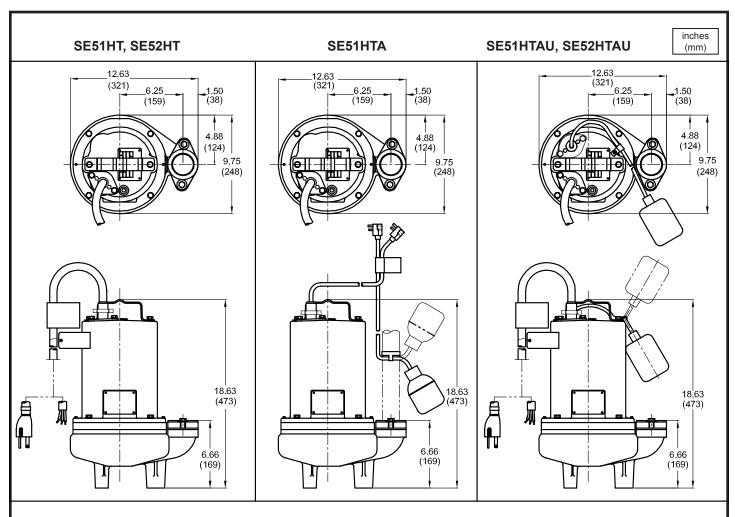
SECTION C PAGE 11 DATE 4/04

Series SE-HT

2" Spherical Solids Handling High Temperature - Manual & Automatic



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
SE51HT	104876	0.5	120/1	60	1750	R	17.0	63.8	14/3	SOW	0.530 (13.5)
SE51HTA	104877	0.5	120/1	60	1750	R	17.0	63.8	14/3	SOW	0.530 (13.5)
SE51HTAU	104878	0.5	120/1	60	1750	R	17.0	63.8	14/3	SOW	0.530 (13.5)
SE52HT	104879	0.5	240/1	60	1750	R	8.5	30.1	14/3	SOW	0.530 (13.5)
SE52HTAU	104880	0.5	240/1	60	1750	R	8.5	30.1	14/3	SOW	0.530 (13.5)

Mechanical Switch on SE51HTA, cord 16/2, SJOW, 0.320 (8.1mm) O.D. Piggy-Back Plug Mechanical Switch on SE51HTAU, cord 14/2, SJOW, 0.345 (8.8mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 3.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE
- 4.) MUST USE A HIGH TEMPERATURE WIDE ANGLE LEVEL CONTROL IN HIGH TEMPERATURE APPLICATIONS.

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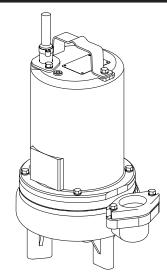


2" Spherical Solids Handling Vortex, Single Seal

Submersible Non-Clog Pumps

DISCHARGE		. 2" NPT, Female, Vertical, Bolt-on Flange
LIQUID TEMP	PERATURE	. 104°F (40°C) Continuous
		Cast Iron ASTM A-48, Class 30
		. Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
IMPELLER:		. Vortex, open, with pump out vanes on
IIII LLLLIX.	Doorgii	back side. Dynamically balanced, ISO G6.3
	Material	. Cast Iron ASTM A-48. Class 30
SHAFT		
	GS	
		. 300 Series Stainless Steel
SEAL:	Design	•
		. Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTRY	<i>(</i>	. 15 ft. (5m) Cord with plug on 120 volt &
		.5HP, 240 volt, 1 phase. Quick connect
		custom molded for sealing and strain relief
UPPER BEAF	RING	. Single Row, Ball, Oil lubricated
		. Single Row, Ball, Oil lubricated
MOTOR:	Design	. NEMA L -Single Phase, NEMA B -Three phase
		Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	. Class B
SINGLE PHA	SE	. Permanent Split Capacitor (PSC)
		Includes Overload Protection in Motor
THREE PHAS	E	. 200-240/480 is Tri-Voltage. 600V. Requires
		Overload Protection to be included in control
		panel
OPTIONAL E	QUIPMENT	. Seal Material, Impeller Trims, Additional cord,

Normally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay



Series: 2SEV-L .5 - 1 HP, 1750RPM, 60Hz

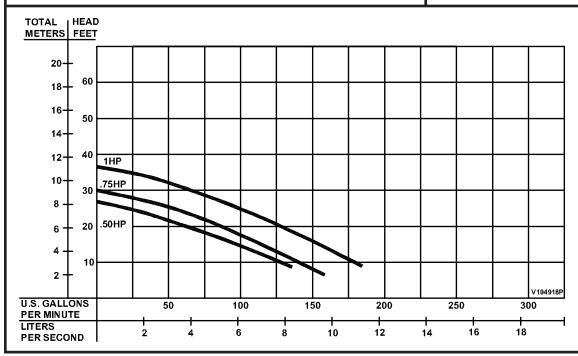


CSA 108 - File No. LR16567 **UL 778**

NRTL\C

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

A Crane Co. Company

in control panel),

PUMPS & SYSTEMS

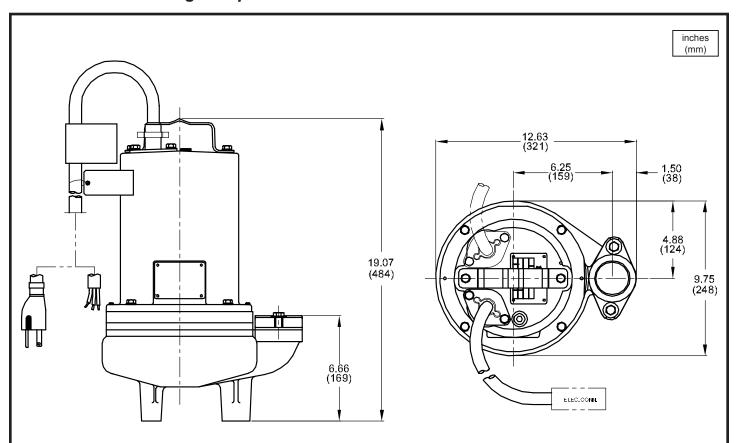
SECTION C PAGE 13 4/04 DATE

Series 2SEV-L

2" Spherical Solids Handling Vortex, Single Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
2SEV514L	104918	0.5	120/1	60	1750	F	12.0	21.3	14/3	SJTOW	0.375 (9.5)
2SEV524L	104919	0.5	240/1	60	1750	J	6.3	14.9	14/3	SOW	0.530 (13.5)
2SEV594L	104920	0.5	200-240/3	60	1750	H/L	3.7/3.8	9.8/11.0	14/4	SOW	0.570 (14.5)
2SEV544L	104921	0.5	480/3	60	1750	K	1.9	5.3	14/4	SOW	0.570 (14.5)
2SEV554L	104922	0.5	600/3	60	1750	Н	1.4	3.4	14/4	SOW	0.570 (14.5)
2SEV724L	104928	0.75	240/1	60	1750	K	7.1	25.8	14/3	SOW	0.530 (13.5)
2SEV794L	104929	0.75	200-240/3	60	1750	H/K	4.8/4.6	13.7/15.4	14/4	SOW	0.570 (14.5)
2SEV744L	104930	0.75	480/3	60	1750	K	2.3	7.7	14/4	SOW	0.570 (14.5)
2SEV754L	104931	0.75	600/3	60	1750	L	1.6	7.2	14/4	SOW	0.570 (14.5)
2SEV1024L	104936	1.0	240/1	60	1750	G	8.5	25.8	14/3	SOW	0.530 (13.5)
2SEV1094L	104937	1.0	200-240/3	60	1750	E/H	5.3/5.1	13.7/15.4	14/3	SOW	0.570 (14.5)
2SEV1044L	104938	1.0	480/3	60	1750	Н	2.5	7.7	14/4	SOW	0.570 (14.5)
2SEV1054L	104939	1.0	600/3	60	1750	J	2.2	7.2	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, 0.530 (13.5mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 14 DATE 4/04





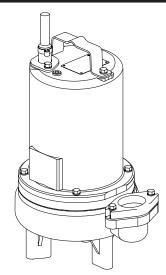


2" Spherical Solids Handling Vortex, Single Seal

Submersible Non-Clog Pumps

DISCHARGE		. 2" NPT, Female, Vertical, Bolt-on Flange
LIQUID TEMP	PERATURE	. 104°F (40°C) Continuous
		Cast Iron ASTM A-48, Class 30
		. Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
IMPELLER:		. Vortex, open, with pump out vanes on
IIII LLLLIX.	Doorgii	back side. Dynamically balanced, ISO G6.3
	Material	. Cast Iron ASTM A-48. Class 30
SHAFT		
	GS	
		. 300 Series Stainless Steel
SEAL:	Design	•
		. Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTRY	<i>(</i>	. 15 ft. (5m) Cord with plug on 120 volt &
		.5HP, 240 volt, 1 phase. Quick connect
		custom molded for sealing and strain relief
UPPER BEAF	RING	. Single Row, Ball, Oil lubricated
		. Single Row, Ball, Oil lubricated
MOTOR:	Design	. NEMA L -Single Phase, NEMA B -Three phase
		Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	. Class B
SINGLE PHA	SE	. Permanent Split Capacitor (PSC)
		Includes Overload Protection in Motor
THREE PHAS	E	. 200-240/480 is Tri-Voltage. 600V. Requires
		Overload Protection to be included in control
		panel
OPTIONAL E	QUIPMENT	. Seal Material, Impeller Trims, Additional cord,

Normally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay



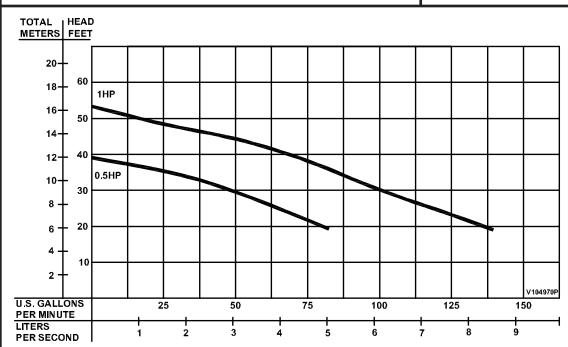
Series: 2SEV-L .5 & 1 HP, 3450RPM, 60Hz



CSA 108 - File No. LR16567 UL 778

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

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in control panel),

PUMPS & SYSTEMS

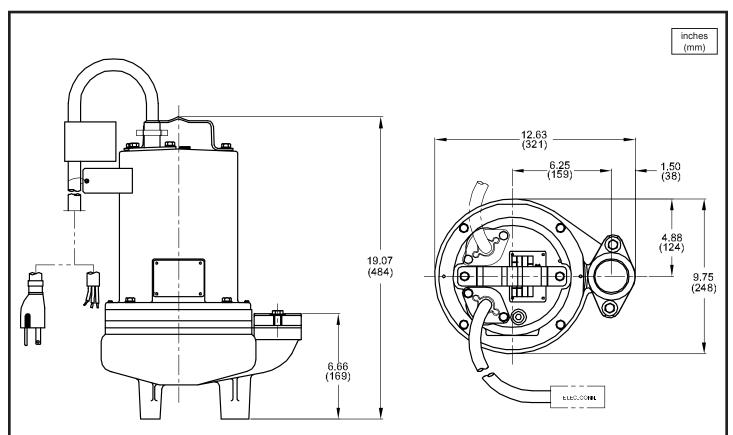
SECTION C PAGE 15 DATE 4/04

Series 2SEV-L

2" Spherical Solids Handling Vortex, Single Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
2SEV512L*	104970	0.5	120/1	60	3450	G	12.6	24.6	14/3	SJTOW	0.375 (9.5)
2SEV522L	104971	0.5	240/1	60	3450	Е	6.0	10.2	14/3	SOW	0.530 (13.5)
2SEV592L	104972	0.5	200-240/3	60	3450	P/R	5.8/5.3	19.9/18.4	14/4	SOW	0.570 (14.5)
2SEV542L	104974	0.5	480/3	60	3450	R	2.6	9.1	14/4	SOW	0.570 (14.5)
2SEV552L	104975	0.5	600/3	60	3450	Т	2.1	8.7	14/4	SOW	0.570 (14.5)
2SEV1022L	104982	1.0	240/1	60	3450	F	10.7	21.8	14/3	SOW	0.530 (13.5)
2SEV1092L	104983	1.0	200-240/3	60	3450	H/J	7.9/7.5	19.9/18.4	14/3	SOW	0.570 (14.5)
2SEV1042L	104985	1.0	480/3	60	3450	J	3.7	9.1	14/4	SOW	0.570 (14.5)
2SEV1052L	104986	1.0	600/3	60	3450	L	2.9	8.7	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, 0.530 (13.5mm) O.D. (*) Pump is CSA listed **ONLY**.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 16 DATE 4/04



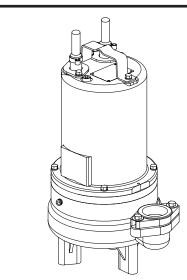


2" Spherical Solids Handling Vortex, Double Seal

Submersible Non-Clog Pumps

DISCHARGE
OLUTE Cast Iron ASTM A-48, Class 30
NOTOR HOUSING Cast Iron ASTM A-48, Class 30
SEAL PLATE Cast Iron ASTM A-48, Class 30
MPELLER: Design
back side. Dynamically balanced, ISO G6.3
Material Cast Iron ASTM A-48, Class 30
SHAFT416 Stainless Steel
QUARE RINGS Buna-N
IARDWARE
AINTAir Dry Enamel
SEAL: DesignTandem Mechanical, Oil filled reservoir
MaterialCarbon/Ceramic/Buna-N
Hardware -300 Series Stainless
CORD ENTRY
.5HP, 240 volt, 1 phase. Quick connect
custom molded for sealing and strain relief
IPPER BEARING Single Row, Ball, Oil lubricated
.OWER BEARING Single Row, Ball, Oil lubricated
IOTOR: DesignNEMA L -Single Phase, NEMA B -Three phase
Torque Curve, Oil Filled, Squirrel Cage Induction
InsulationClass B
SINGLE PHASEPermanent Split Capacitor (PSC)
Includes Overload Protection in Motor
HREE PHASE
Overload Protection to be included in control
panel
DPTIONAL EQUIPMENTSeal Material, Impeller Trims, Additional cord,
Iormally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay

in control panel), Normally Open Moisture sensor with cord for DS pumps (Requires



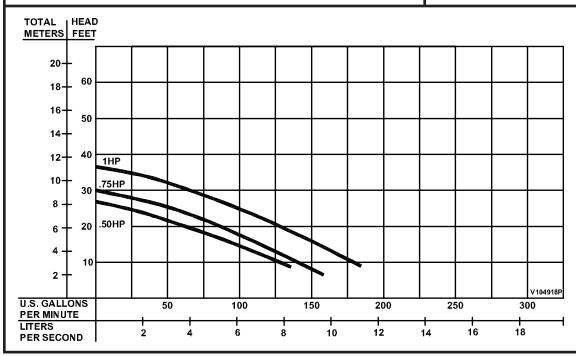
Series: 2SEV-DS .5 - 1 HP, 1750RPM, 60Hz



CSA 108 - File No. LR16567 UL 778

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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relay in control panel).

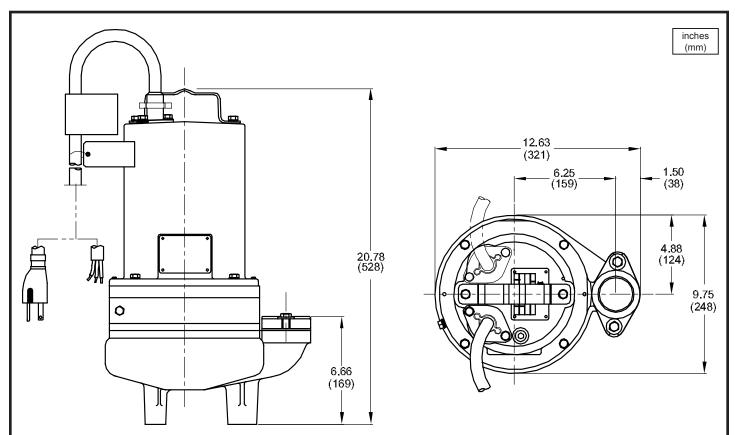
PUMPS & SYSTEMS

SECTION C PAGE 17 DATE 4/04

2" Spherical Solids Handling Vortex, Double Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
2SEV514DS	104923	0.5	120/1	60	1750	F	12.0	21.3	14/3	SJTOW	0.375 (9.5)
2SEV524DS	104924	0.5	240/1	60	1750	J	6.3	14.9	14/3	SOW	0.530 (13.5)
2SEV594DS	104925	0.5	200-240/3	60	1750	H/L	3.7/3.8	9.8/11.0	14/4	SOW	0.570 (14.5)
2SEV544DS	104926	0.5	480/3	60	1750	K	1.9	5.3	14/4	SOW	0.570 (14.5)
2SEV554DS	104927	0.5	600/3	60	1750	Н	1.4	3.4	14/4	SOW	0.570 (14.5)
2SEV724DS	104932	0.75	240/1	60	1750	K	7.1	25.8	14/3	SOW	0.530 (13.5)
2SEV794DS	104933	0.75	200-240/3	60	1750	H/K	4.8/4.6	13.7/15.4	14/4	SOW	0.570 (14.5)
2SEV744DS	104934	0.75	480/3	60	1750	K	2.3	7.7	14/4	SOW	0.570 (14.5)
2SEV754DS	104935	0.75	600/3	60	1750	L	1.6	7.2	14/4	SOW	0.570 (14.5)
2SEV1024DS	104940	1.0	240/1	60	1750	G	8.5	25.8	14/3	SOW	0.530 (13.5)
2SEV1094DS	104941	1.0	200-240/3	60	1750	E/H	5.3/5.1	13.7/15.4	14/3	SOW	0.570 (14.5)
2SEV1044DS	104942	1.0	480/3	60	1750	Н	2.5	7.7	14/4	SOW	0.570 (14.5)
2SEV1054DS	104943	1.0	600/3	60	1750	J	2.2	7.2	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, 0.530 (13.5mm) O.D.

OPTIONAL - Moisture sensor cord is 18/5 SOW, 0.470 (11.9mm) O.D.

OPTIONAL - Moisture & Temperature sensor cord for 3 phase models is 18/5 SOW, 0.470 (11.9mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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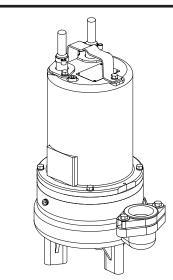


2" Spherical Solids Handling Vortex, Double Seal

Submersible Non-Clog Pumps

DISCHARGE	:	2" NPT, Female, Vertical, Bolt-on Flange
LIQUID TEM	PERATURE	104°F (40°C) Continuous
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
IMPELLER:		Vortex, open, with pump out vanes on
	· ·	back side. Dynamically balanced, ISO G6.3
	Material	Cast Iron ASTM A-48, Class 30
SHAFT		416 Stainless Steel
	NGS	
HARDWARE		300 Series Stainless Steel
PAINT		Air Dry Enamel
SEAL:	Design	Tandem Mechanical, Oil filled reservoir
	Material	Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTR	Υ	15 ft. (5m) Cord with plug on 120 volt &
		.5HP, 240 volt, 1 phase. Quick connect
		custom molded for sealing and strain relief
		Single Row, Ball, Oil lubricated
		Single Row, Ball, Oil lubricated
MOTOR:	Design	NEMA L -Single Phase, NEMA B -Three phase
		Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	
SINGLE PHA	\SE	Permanent Split Capacitor (PSC)
TUDEE BUA	05	Includes Overload Protection in Motor
THREE PHA	SE	200-240/480 is Tri-Voltage. 600V. Requires
		Overload Protection to be included in control
ODTIONAL	OUIDMENT	panel
OPTIONALE	QUIPWENT	Seal Material, Impeller Trims, Additional cord,

Normally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay in control panel), Normally Open Moisture sensor with cord for DS pumps (Requires

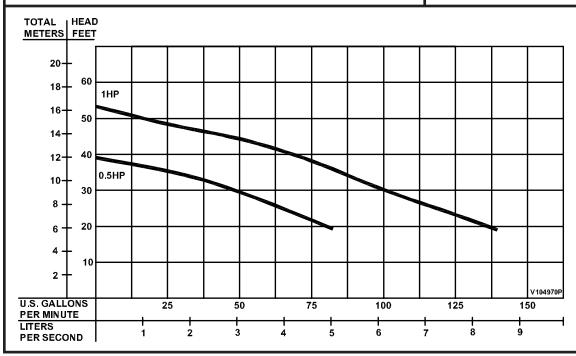


Series: 2SEV-DS .5 & 1 HP, 3450RPM, 60Hz



DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

A Crane Co. Company

relay in control panel).

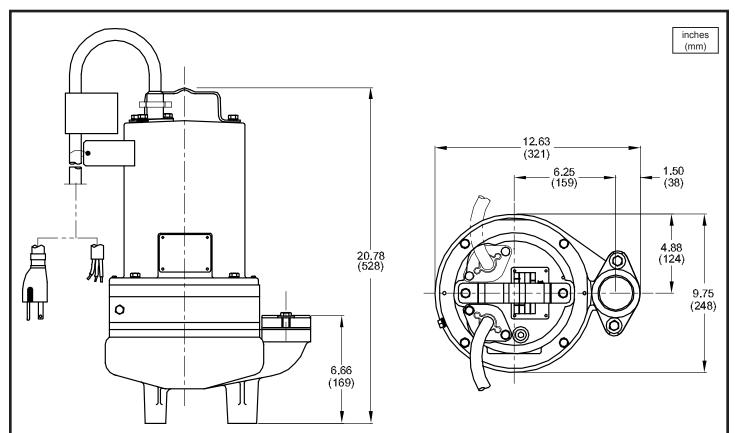
PUMPS & SYSTEMS

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2" Spherical Solids Handling Vortex, Double Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
2SEV512DS*	104976	0.5	120/1	60	3450	G	12.6	24.6	14/3	SJTOW	0.375 (9.5)
2SEV522DS	104977	0.5	240/1	60	3450	Е	6.0	10.2	14/3	SOW	0.530 (13.5)
2SEV1022DS	104987	1.0	240/1	60	3450	F	10.7	21.8	14/3	SOW	0.530 (13.5)
2SEV1092DS	104988	1.0	200-240/3	60	3450	H/J	7.9/7.5	19.9/18.4	14/4	SOW	0.570 (14.5)
2SEV1042DS	104990	1.0	480/3	60	3450	J	3.7	9.1	14/4	SOW	0.570 (14.5)
2SEV1052DS	104991	1.0	600/3	60	3450	L	2.9	8.7	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, 0.530 (13.5mm) O.D.

OPTIONAL - Moisture sensor cord is 18/5 SOW, 0.470 (11.9mm) O.D.

OPTIONAL - Moisture & Temperature sensor cord for 3 phase models is 18/5 SOW, 0.470 (11.9mm) O.D.

(*) Pump is CSA listed ONLY.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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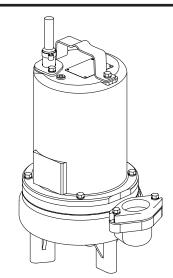


2" Spherical Solids Handling Vortex, Single Seal

Submersible Non-Clog Pumps

Normally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay

in control panel), 3" NPT Discharge Adapter.



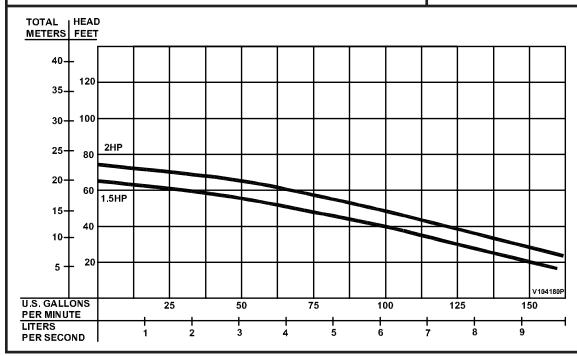
Series: 2SEV-L 1.5 & 2HP, 3450RPM, 60Hz



CSA 108 - File No. LR16567 UL 778

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE_®

PUMPS & SYSTEMS

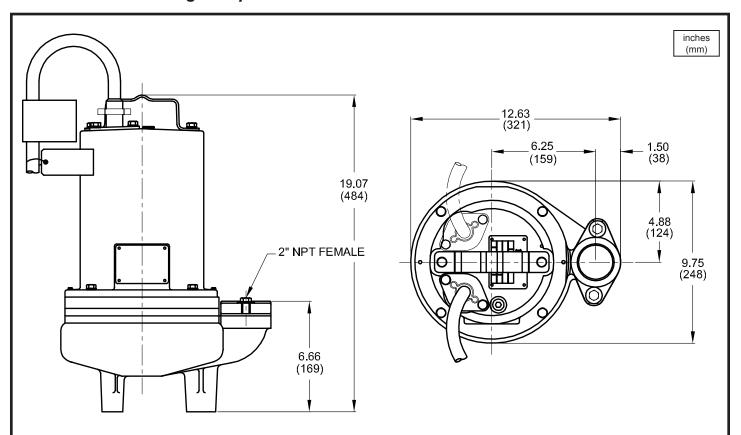
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Series 2SEV-L

2" Spherical Solids Handling Vortex, Single Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
2SEV1522L	104187	1.5	240/1	60	3450	Α	13.5	31.5	12/3	SOW	0.610 (15.5)
2SEV1592L	104188	1.5	200/240/3	60	3450	С	10.8/9.8	27.0	14/4	SOW	0.600 (15.2)
2SEV1542L	104189	1.5	480/3	60	3450	F	4.9	13.5	14/4	SOW	0.600 (15.2)
2SEV1552L	105774	1.5	600/3	60	3450	F	3.9	11.0	14/4	SOW	0.600 (15.2)
2SEV2022L	104190	2.0	240/1	60	3450	С	16.0	42.0	12/3	SOW	0.610 (15.5)
2SEV2092L	104191	2.0	200/240/3	60	3450	J	13.2/12.0	30.0	14/4	SOW	0.600 (15.2)
2SEV2042L	104192	2.0	480/3	60	3450	J	6.0	15.0	14/4	SOW	0.600 (15.2)
2SEV2052L	105775	2.0	600/3	60	3450	J	4.8	12.0	14/4	SOW	0.600 (15.2)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, 0.530 (13.5mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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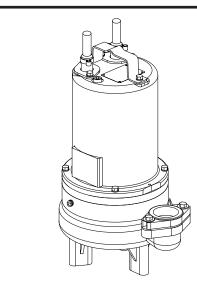
in control panel), 3" NPT Discharge Adapter.

Series 2SEV-DS

2" Spherical Solids Handling Vortex, Double Seal

Submersible Non-Clog Pumps

DISCHARGE		2" NPT, Female, Vertical, Bolt-on Flange
LIQUID TEM	PERATURE	104°F (40°C) Continuous
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
SEAL DI ATE	SING	Cast Iron ASTM A-46, Class 30
		Vortex, open, with pump out vanes on
IIVIPELLER.	Design	back side. Dynamically balanced, ISO G6.3
	Matarial	85-5-5-5 Bronze
OUAFT		
		416 Stainless Steel
	IGS	
		300 Series Stainless Steel
SEAL:		Tandem Mechanical, Oil filled reservoir
	Material	Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTR	Y	20 ft. (6m) Cord. Quick connect custom
		molded for sealing and strain relief
		Single Row, Ball, Oil lubricated
		Single Row, Ball, Oil lubricated
MOTOR:	Design	NEMA L -Single Phase, NEMA B -Three phase
		Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	
SINGLE PHA	SE	Permanent Split Capacitor (PSC)
		Includes Overload Protection in Motor
THREE PHAS	SE	200-240/480 is Tri-Voltage. 600V. Requires
		Overload Protection to be included in control
		panel
OPTIONAL E	QUIPMENT	Seal Material, Impeller Trims, Additional cord,
Normally Clos	sed Temperature Sen	sors with cord for 3 phase pumps (Requires relay



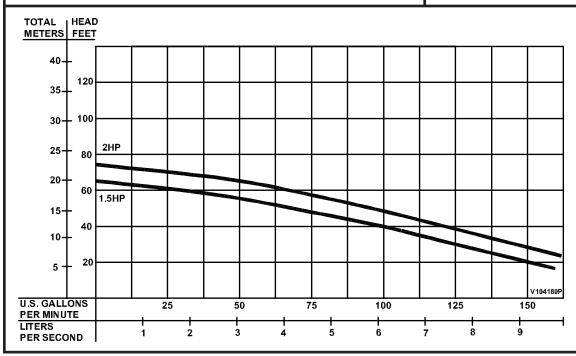
Series: 2SEV-DS 1.5 & 2HP, 3450RPM, 60Hz



CSA 108 - File No. LR16567 UL 778

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

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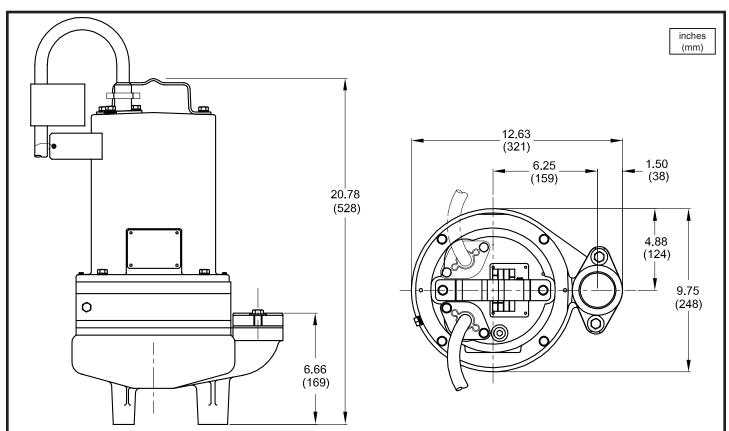
PUMPS & SYSTEMS

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2" Spherical Solids Handling Vortex, Double Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
2SEV1522DS	107914	1.5	240/1	60	3450	Α	13.5	31.5	12/3	SOW	0.610 (15.5)
2SEV1592DS	107915	1.5	200/240/3	60	3450	С	10.8/9.8	27.0	14/4	SOW	0.600 (15.2)
2SEV1542DS	107916	1.5	480/3	60	3450	F	4.9	13.5	14/4	SOW	0.600 (15.2)
2SEV1552DS	107917	1.5	600/3	60	3450	F	3.9	11.0	14/4	SOW	0.600 (15.2)
2SEV2022DS	107918	2.0	240/1	60	3450	С	16.0	42.0	12/3	SOW	0.610 (15.5)
2SEV2092DS	107919	2.0	200/240/3	60	3450	J	13.2/12.0	30.0	14/4	SOW	0.600 (15.2)
2SEV2042DS	107920	2.0	480/3	60	3450	J	6.0	15.0	14/4	SOW	0.600 (15.2)
2SEV2052DS	107921	2.0	600/3	60	3450	J	4.8	12.0	14/4	SOW	0.600 (15.2)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, 0.530 (13.5mm) O.D.

OPTIONAL - Moisture sensor cord is 18/5 SOW, 0.470 (11.9mm) O.D.

OPTIONAL - Moisture & Temperature sensor cord for 3 phase models is 18/5 SOW, 0.470 (11.9mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 24 DATE 4/04





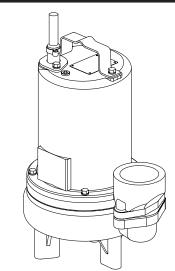


2" Spherical Solids Handling Single Seal

Submersible Non-Clog Pumps

DISCHARGE		. 3" NPT, Female, Vertical, Bolt-on Flange
LIQUID TEMP	ERATURE	. 104°F (40°C) Continuous
		. Cast Iron ASTM A-48, Class 30
		. Cast Iron ASTM A-48, Class 30
SEAL PLATE		. Cast Iron ASTM A-48, Class 30
IMPELLER:	Design	. 2 Vane, open, with pump out vanes on
	•	back side. Dynamically balanced, ISO G6.3
	Material	. Cast Iron ASTM A-48, Class 30
SHAFT		.416 Stainless Steel
	GS	
		. 300 Series Stainless Steel
PAINT		. Air Dry Enamel
SEAL:	Design	. Single Mechanical
	Material	. Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTRY	<i>'</i>	. 15 ft. (5m) Cord. Plug on 120 Volt & .5HP.
		240 Volt 1 Phase. Quick connect custom
		molded for sealing and strain relief
UPPER BEAR	RING	. Single Row, Ball, Oil lubricated
		. Single Row, Ball, Oil lubricated
MOTOR:	Design	. NEMA L -Single Phase, NEMA B -Three phase
		Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	
SINGLE PHAS	SE	. Permanent Split Capacitor (PSC)
		Includes Overload Protection in Motor
THREE PHAS	E	. 200-240/480 is Tri-Voltage. 600V. Requires
		Overload Protection to be included in control
		panel
OPTIONAL E	QUIPMENT	. Seal Material, Impeller Trims, Additional cord,

Normally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay



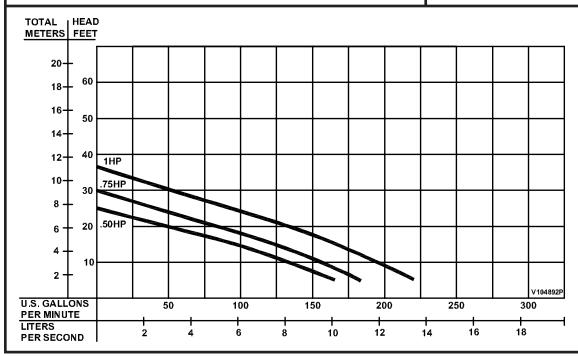
Series: 3SE-L .5 - 1HP, 1750RPM, 60Hz



CSA 108 - File No. LR16567 UL 778

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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in control panel),

PUMPS & SYSTEMS

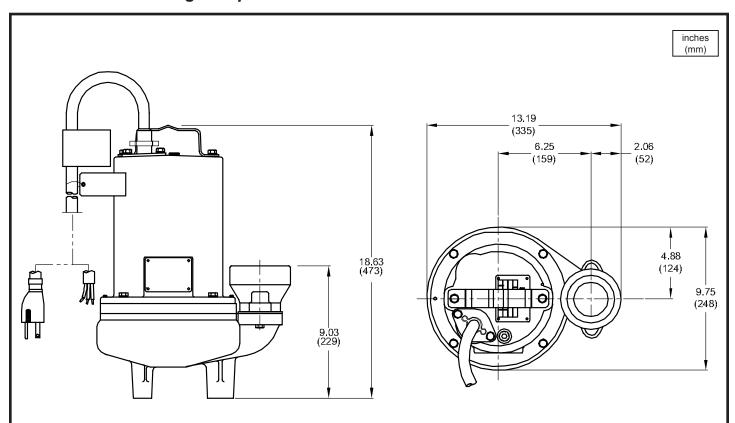
SECTION C PAGE 25 DATE 4/04

Series 3SE-L

2" Spherical Solids Handling Single Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM	NEMA	FULL	LOCKED	CORD	CORD	CORD
					(Nom)	START CODE	LOAD AMPS	ROTOR AMPS	SIZE	TYPE	O.D inch (mm)
3SE514L	104892	0.5	120/1	60	1750	F	11.6	21.3	14/3	SJTOW	0.375 (9.5)
3SE524L	104893	0.5	240/1	60	1750	J	5.9	14.9	14/3	SOW	0.530 (13.5)
3SE594L	104894	0.5	200-240/3	60	1750	H/L	3.2/3.0	9.8/11.0	14/4	SOW	0.570 (14.5)
3SE544L	104895	0.5	480/3	60	1750	K	1.5	5.3	14/4	SOW	0.570 (14.5)
3SE554L	104896	0.5	600/3	60	1750	Н	1.0	3.4	14/4	SOW	0.570 (14.5)
3SE774L	104902	0.75	200-240/1	60	1750	G/K	7.4/7.0	21.5/25.8	14/3	SOW	0.530 (13.5)
3SE794L	104903	0.75	200-240/3	60	1750	H/K	4.8/4.5	13.7/15.4	14/4	SOW	0.570 (14.5)
3SE744L	104904	0.75	480/3	60	1750	K	2.2	7.7	14/4	SOW	0.570 (14.5)
3SE754L	104905	0.75	600/3	60	1750	L	1.5	7.2	14/4	SOW	0.570 (14.5)
3SE1074L	104910	1.0	200-240/1	60	1750	D/G	8.8/8.3	21.5/25.8	14/3	SOW	0.530 (13.5)
3SE1094L	104911	1.0	200-240/3	60	1750	E/H	5.14/4.9	13.7/15.4	14/3	SOW	0.570 (14.5)
3SE1044L	104912	1.0	480/3	60	1750	Н	2.4	7.7	14/4	SOW	0.570 (14.5)
3SE1054L	104913	1.0	600/3	60	1750	J	1.9	7.2	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, 0.530 (13.5mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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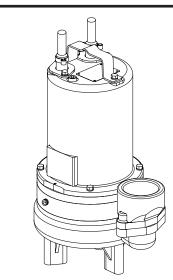


2" Spherical Solids Handling Double Seal

Submersible Non-Clog Pumps

e, Vertical, Bolt-on Flange Continuous M A-48, Class 30 M A-48, Class 30 M A-48, Class 30
with pump out vanes on mically balanced, ISO G6.3 MA-48, Class 30
Steel
Steel
interes Otto at
inless Steel
l
anical, Oil filled reservoir
ic/Buna-N
Series Stainless
d with plug on 120 volt &
1 phase. Quick connect
for sealing and strain relief
all, Oil lubricated
all, Oil lubricated
e Phase, NEMA B -Three phase
Dil Filled, Squirrel Cage Induction
it Capacitor (PSC)
oad Protection in Motor
Tri-Voltage. 600V. Requires
ection to be included in control
mpeller Trims, Additional cord, 3 phase pumps (Requires relay

in control panel), Normally Open Moisture sensor with cord for DS pumps (Requires



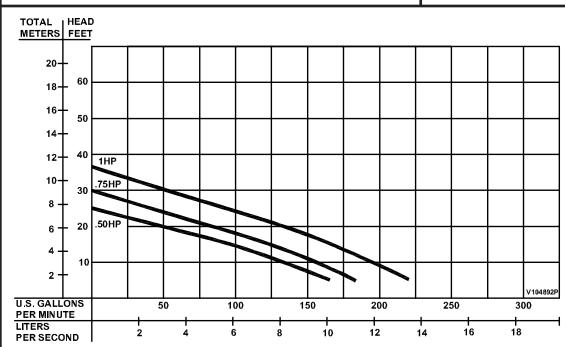
Series: 3SE-DS .5 - 1 HP, 1750RPM, 60Hz



CSA 108 - File No. LR16567 UL 778

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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relay in control panel).

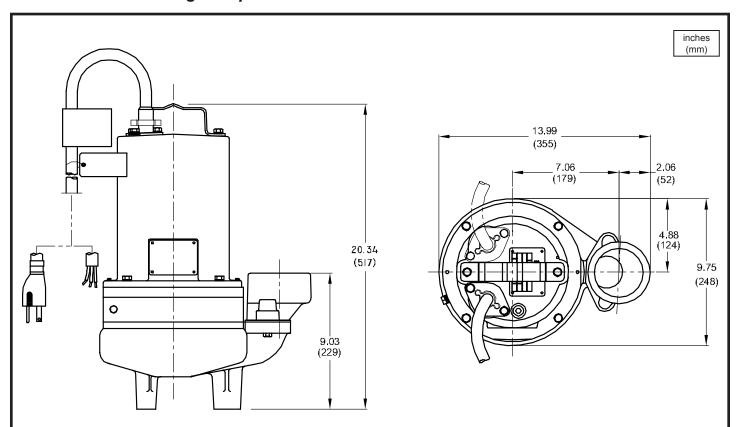
PUMPS & SYSTEMS

SECTION C PAGE 27 DATE 4/04

2" Spherical Solids Handling Double Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
3SE514DS	104897	0.5	120/1	60	1750	F	11.6	21.3	14/3	SJTOW	0.375 (9.5)
3SE524DS	104898	0.5	240/1	60	1750	J	5.9	14.9	14/3	SOW	0.530 (13.5)
3SE594DS	104899	0.5	200-240/3	60	1750	H/L	3.2/3.0	9.8/11.0	14/4	SOW	0.570 (14.5)
3SE544DS	104900	0.5	480/3	60	1750	K	1.5	5.3	14/4	SOW	0.570 (14.5)
3SE554DS	104901	0.5	600/3	60	1750	Н	1.0	3.4	14/4	SOW	0.570 (14.5)
3SE774DS	104906	0.75	200-240/1	60	1750	G/K	7.4/7.0	21.5/25.8	14/3	SOW	0.530 (13.5)
3SE794DS	104907	0.75	200-240/3	60	1750	H/K	4.8/4.5	13.7/15.4	14/4	SOW	0.570 (14.5)
3SE744DS	104908	0.75	480/3	60	1750	K	2.2	7.7	14/4	SOW	0.570 (14.5)
3SE754DS	104909	0.75	600/3	60	1750	L	1.5	7.2	14/4	SOW	0.570 (14.5)
3SE1074DS	104914	1.0	200-240/1	60	1750	D/G	8.8/8.3	21.5/25.8	14/3	SOW	0.530 (13.5)
3SE1094DS	104915	1.0	200-240/3	60	1750	E/H	5.14/4.9	13.7/15.4	14/3	SOW	0.570 (14.5)
3SE1044DS	104916	1.0	480/3	60	1750	Н	2.4	7.7	14/4	SOW	0.570 (14.5)
3SE1054DS	104917	1.0	600/3	60	1750	J	1.9	7.2	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, 0.530 (13.5mm) O.D.

OPTIONAL - Moisture sensor cord is 18/5 SOW, 0.470 (11.9mm) O.D.

OPTIONAL - Moisture & Temperature sensor cord for 3 phase models is 18/5 SOW, 0.470 (11.9mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 28 DATE 4/04



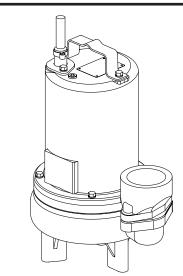




2" Spherical Solids Handling Vortex, Single Seal

Submersible Non-Clog Pumps

LIQUID TEMP VOLUTE	PERATURE	3" NPT, Female, Vertical, Bolt-on Flange 104°F (40°C) Continuous Cast Iron ASTM A-48, Class 30
MOTOR HOUS	SING	Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
		·
IMPELLER:	Design	Vortex, open, with pump out vanes on
		back side. Dynamically balanced, ISO G6.3
	Material	Cast Iron ASTM A-48, Class 30
SHAFT		416 Stainless Steel
	GS	
		300 Series Stainless Steel
SEAL:	Design	
	Material	Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTRY	/	15 ft. (5m) Cord with plug on 120 volt &
		.5HP, 240 volt, 1 phase. Quick connect
		custom molded for sealing and strain relief
LIDDED DEAD	DING	Single Row, Ball, Oil lubricated
		Single Row, Ball, Oil lubricated
MOTOR:	Design	NEMA L -Single Phase, NEMA B -Three phase
		Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	Class B
SINGLE PHAS	SE	Permanent Split Capacitor (PSC)
		Includes Overload Protection in Motor
THREE PHAS	F	200-240/480 is Tri-Voltage. 600V. Requires
THINEETTIAG	· — · · · · · · · · · · · · · · · · · ·	Overload Protection to be included in control
ODTIONAL T	OLUBATNIT	panel
		Seal Material, Impeller Trims, Additional cord, rs with cord for 3 phase pumps (Requires relay



Series: 3SEV-L .5 - 1 HP, 1750RPM, 60Hz

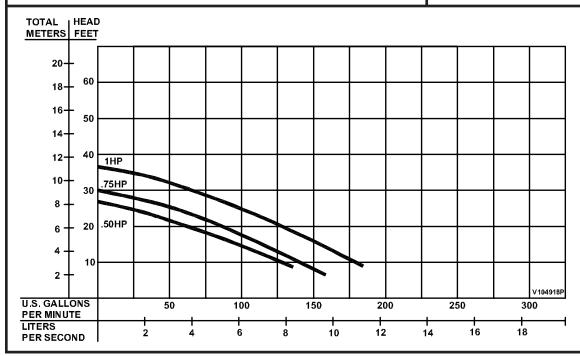


CSA 108 - File No. LR16567 **UL 778**

NRTL\C

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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in control panel),

PUMPS & SYSTEMS

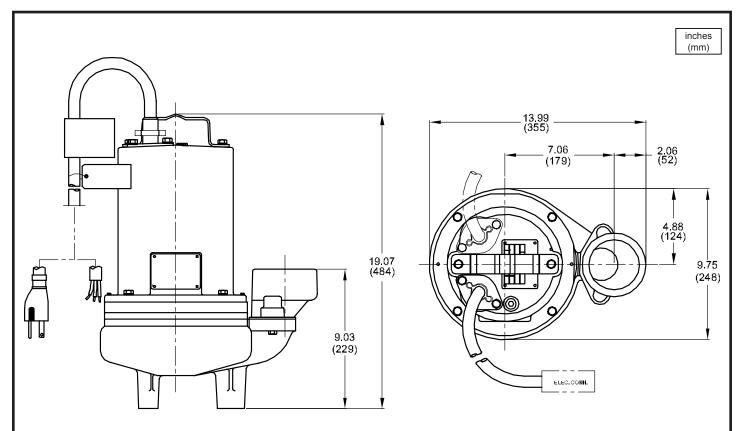
SECTION C PAGE 29 4/04 DATE

Series 3SEV-L

2" Spherical Solids Handling Vortex, Single Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
3SEV514L	104944	0.5	120/1	60	1750	F	12.0	21.3	14/3	SJTOW	0.375 (9.5)
3SEV524L	104945	0.5	240/1	60	1750	J	6.3	14.9	14/3	SOW	0.530 (13.5)
3SEV594L	104946	0.5	200-240/3	60	1750	H/L	3.7/3.8	9.8/11.0	14/4	SOW	0.570 (14.5)
3SEV544L	104947	0.5	480/3	60	1750	K	1.9	5.3	14/4	SOW	0.570 (14.5)
3SEV554L	104948	0.5	600/3	60	1750	Н	1.4	3.4	14/4	SOW	0.570 (14.5)
3SEV724L	104954	0.75	240/1	60	1750	K	7.1	25.8	14/3	SOW	0.530 (13.5)
3SEV794L	104955	0.75	200-240/3	60	1750	H/K	4.8/4.6	13.7/15.4	14/4	SOW	0.570 (14.5)
3SEV744L	104956	0.75	480/3	60	1750	K	2.3	7.7	14/4	SOW	0.570 (14.5)
3SEV754L	104957	0.75	600/3	60	1750	L	1.6	7.2	14/4	SOW	0.570 (14.5)
3SEV1024L	104962	1.0	240/1	60	1750	G	8.5	25.8	14/3	SOW	0.530 (13.5)
3SEV1094L	104963	1.0	200-240/3	60	1750	E/H	5.3/5.1	13.7/15.4	14/3	SOW	0.570 (14.5)
3SEV1044L	104964	1.0	480/3	60	1750	Н	2.5	7.7	14/4	SOW	0.570 (14.5)
3SEV1054L	104965	1.0	600/3	60	1750	J	2.2	7.2	14/4	SOW	0.570 (14.5)

 $\label{eq:optional} \mbox{OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, 0.530 (13.5 mm) O.D. \\$

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 30 DATE 4/04



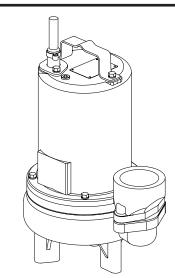




2" Spherical Solids Handling Vortex, Single Seal

Submersible Non-Clog Pumps

		3" NPT, Female, Vertical, Bolt-on Flange 104°F (40°C) Continuous
VOLUTE		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
IMPELLER:		
INIPELLER:	Design	Vortex, open, with pump out vanes on
		back side. Dynamically balanced, ISO G6.3
		Cast Iron ASTM A-48, Class 30
SHAFT		416 Stainless Steel
SQUARE RIN	GS	Buna-N
HARDWARE		300 Series Stainless Steel
PAINT		Air Dry Fnamel
SEAL:	Design	
OLAL.		Carbon/Ceramic/Buna-N
	Material	Hardware -300 Series Stainless
0000 511501		
CORD ENTRY	r	15 ft. (5m) Cord with plug on 120 volt &
		.5HP, 240 volt, 1 phase. Quick connect
		custom molded for sealing and strain relief
UPPER BEAF	RING	Single Row, Ball, Oil lubricated
LOWER BEA	RING	Single Row, Ball, Oil lubricated
MOTOR:		NEMA L -Single Phase, NEMA B -Three phase
		Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	, , ,
CINCLE DUA		
SINGLE PHA	3E	Permanent Split Capacitor (PSC)
	_	Includes Overload Protection in Motor
THREE PHAS	SE	200-240/480 is Tri-Voltage. 600V. Requires
		Overload Protection to be included in control
		panel
		Seal Material, Impeller Trims, Additional cord, ors with cord for 3 phase pumps (Requires relay



Series: 3SEV-L .5 & 1 HP, 3450RPM, 60Hz

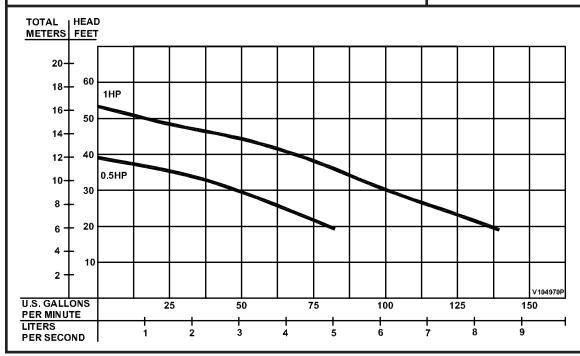


CSA 108 - File No. LR16567

NRTL\C

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

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in control panel),

PUMPS & SYSTEMS

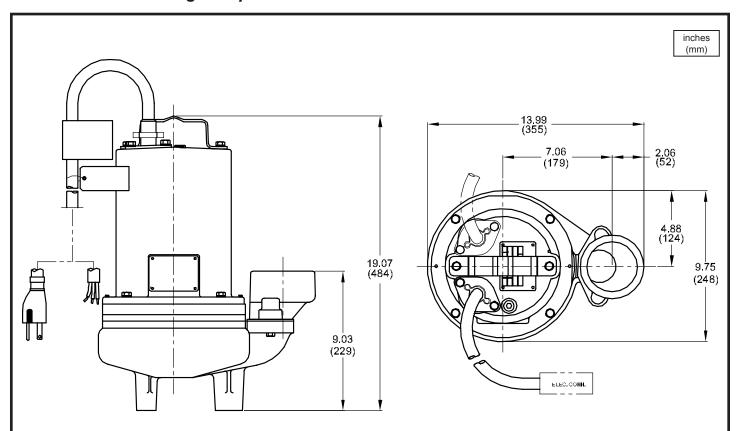
SECTION C PAGE 31 4/04 DATE

Series 3SEV-L

2" Spherical Solids Handling Vortex, Single Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
3SEV512L*	104992	0.5	120/1	60	3450	G	12.6	24.6	14/3	SJTOW	0.375 (9.5)
3SEV522L	104993	0.5	240/1	60	3450	Е	6.0	10.2	14/3	SOW	0.530 (13.5)
3SEV592L	104994	0.5	200-240/3	60	3450	P/R	5.8/5.3	19.9/18.4	14/4	SOW	0.570 (14.5)
3SEV542L	104996	0.5	480/3	60	3450	R	2.6	9.1	14/4	SOW	0.570 (14.5)
3SEV552L	104997	0.5	600/3	60	3450	Т	2.1	8.7	14/4	SOW	0.570 (14.5)
3SEV1022L	105004	1.0	240/1	60	3450	F	10.7	21.8	14/3	SOW	0.530 (13.5)
3SEV1092L	105005	1.0	200-240/3	60	3450	H/J	7.9/7.5	19.9/18.4	14/4	SOW	0.570 (14.5)
3SEV1042L	105007	1.0	480/3	60	3450	J	3.7	9.1	14/4	SOW	0.570 (14.5)
3SEV1052L	105008	1.0	600/3	60	3450	L	2.9	8.7	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, 0.530 (13.5mm) O.D. (*) Pump is CSA listed **ONLY**.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 32 DATE 4/04



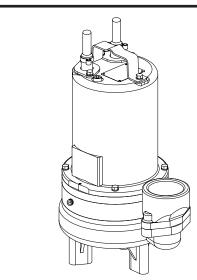


2" Spherical Solids Handling Vortex, Double Seal

Submersible Non-Clog Pumps

DISCHARGE		3" NPT, Female, Vertical, Bolt-on Flange
		104°F (40°C) Continuous
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
SEAL PLATE		Cast Iron ASTM A-48, Class 30
IMPELLER:	Design	Vortex, open, with pump out vanes on
	•	back side. Dynamically balanced, ISO G6.3
	Material	Cast Iron ASTM A-48, Class 30
SHAFT		•
	IGS	
1		
		300 Series Stainless Steel
SEAL:		Tandem Mechanical, Oil filled reservoir
	Material	Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTR	Y	15 ft. (5m) Cord with plug on 120 volt &
		.5HP, 240 volt, 1 phase. Quick connect
		custom molded for sealing and strain relief
LIDDED BEAL	DING	Single Row, Ball, Oil lubricated
		Single Row, Ball, Oil lubricated
MOTOR:	Design	NEMA L -Single Phase, NEMA B -Three phase
		Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	
SINGLE PHA	SE	Permanent Split Capacitor (PSC)
		Includes Overload Protection in Motor
THREE PHAS	SE	200-240/480 is Tri-Voltage. 600V. Requires
		Overload Protection to be included in control
		panel
OPTIONAL F	OUIPMENT	Seal Material, Impeller Trims, Additional cord,
INDITION CIOS	seu remperature sens	ors with cord for 3 phase pumps (Requires relay

in control panel), Normally Open Moisture sensor with cord for DS pumps (Requires



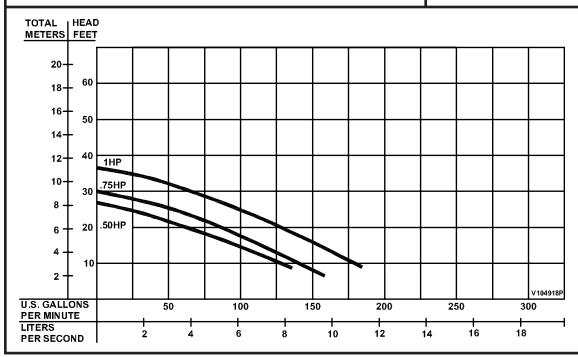
Series: 3SEV-DS .5 - 1 HP, 1750RPM, 60Hz



CSA 108 - File No. LR16567 UL 778

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE_®

relay in control panel).

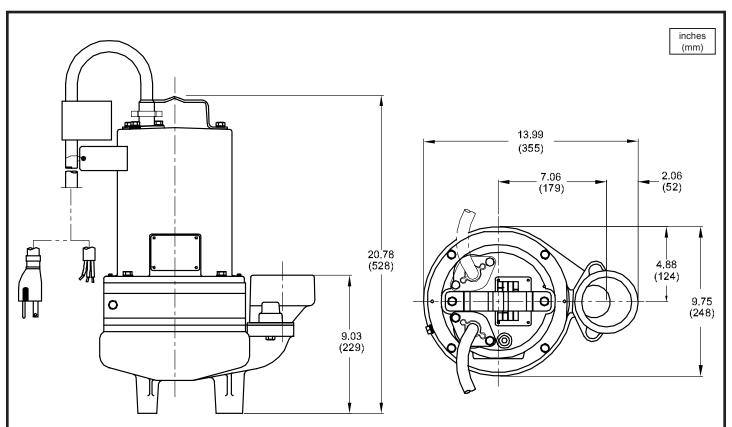
PUMPS & SYSTEMS

SECTION C PAGE 33 DATE 4/04

2" Spherical Solids Handling Vortex, Double Seal



Submersible Non-Clog Pumps



PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
104949	0.5	120/1	60	1750	F	12.0	21.3	14/3	SJTOW	0.375 (9.5)
104950	0.5	240/1	60	1750	J	6.3	14.9	14/3	SOW	0.530 (13.5)
104951	0.5	200-240/3	60	1750	H/L	3.7/3.8	9.8/11.0	14/4	SOW	0.570 (14.5)
104952	0.5	480/3	60	1750	K	1.9	5.3	14/4	SOW	0.570 (14.5)
104953	0.5	600/3	60	1750	Н	1.4	3.4	14/4	SOW	0.570 (14.5)
104958	0.75	240/1	60	1750	G/K	7.1	25.8	14/3	SOW	0.530 (13.5)
104959	0.75	200-240/3	60	1750	H/K	4.8/4.6	13.7/15.4	14/4	SOW	0.570 (14.5)
104960	0.75	480/3	60	1750	K	2.3	7.7	14/4	SOW	0.570 (14.5)
104961	0.75	600/3	60	1750	L	1.6	7.2	14/4	SOW	0.570 (14.5)
104966	1.0	240/1	60	1750	D/G	8.5	25.8	14/3	SOW	0.530 (13.5)
104967	1.0	200-240/3	60	1750	E/H	5.3/5.1	13.7/15.4	14/3	SOW	0.570 (14.5)
104968	1.0	480/3	60	1750	Н	2.5	7.7	14/4	SOW	0.570 (14.5)
104969	1.0	600/3	60	1750	J	2.2	7.2	14/4	SOW	0.570 (14.5)
	104949 104950 104951 104952 104953 104958 104959 104960 104961 104966 104967 104968	104949 0.5 104950 0.5 104951 0.5 104952 0.5 104953 0.5 104958 0.75 104959 0.75 104960 0.75 104961 0.75 104966 1.0 104967 1.0 104968 1.0	104949 0.5 120/1 104950 0.5 240/1 104951 0.5 200-240/3 104952 0.5 480/3 104953 0.5 600/3 104958 0.75 240/1 104959 0.75 200-240/3 104960 0.75 480/3 104961 0.75 600/3 104966 1.0 240/1 104967 1.0 200-240/3 104968 1.0 480/3	104949 0.5 120/1 60 104950 0.5 240/1 60 104951 0.5 200-240/3 60 104952 0.5 480/3 60 104953 0.5 600/3 60 104958 0.75 240/1 60 104959 0.75 200-240/3 60 104960 0.75 480/3 60 104961 0.75 600/3 60 104966 1.0 240/1 60 104967 1.0 200-240/3 60 104968 1.0 480/3 60	(Nom) 104949 0.5 120/1 60 1750 104950 0.5 240/1 60 1750 104951 0.5 200-240/3 60 1750 104952 0.5 480/3 60 1750 104953 0.5 600/3 60 1750 104958 0.75 240/1 60 1750 104959 0.75 200-240/3 60 1750 104960 0.75 480/3 60 1750 104961 0.75 600/3 60 1750 104966 1.0 240/1 60 1750 104967 1.0 200-240/3 60 1750 104968 1.0 480/3 60 1750	Nom START CODE 104949 0.5 120/1 60 1750 F 104950 0.5 240/1 60 1750 J 104951 0.5 200-240/3 60 1750 H/L 104952 0.5 480/3 60 1750 K 104953 0.5 600/3 60 1750 H 104958 0.75 240/1 60 1750 G/K 104959 0.75 200-240/3 60 1750 H/K 104960 0.75 480/3 60 1750 K 104961 0.75 600/3 60 1750 K 104966 1.0 240/1 60 1750 D/G 104967 1.0 200-240/3 60 1750 E/H 104968 1.0 480/3 60 1750 H H	Nom START CODE AMPS 104949 0.5 120/1 60 1750 F 12.0 104950 0.5 240/1 60 1750 J 6.3 104951 0.5 200-240/3 60 1750 H/L 3.7/3.8 104952 0.5 480/3 60 1750 K 1.9 104953 0.5 600/3 60 1750 H 1.4 104958 0.75 240/1 60 1750 G/K 7.1 104959 0.75 200-240/3 60 1750 H/K 4.8/4.6 104960 0.75 480/3 60 1750 K 2.3 104961 0.75 600/3 60 1750 L 1.6 104966 1.0 240/1 60 1750 E/H 5.3/5.1 104968 1.0 480/3 60 1750 H 2.5 104968 1.0 480/3 60 1750	(Nom) START CODE LOAD AMPS ROTOR AMPS 104949 0.5 120/1 60 1750 F 12.0 21.3 104950 0.5 240/1 60 1750 J 6.3 14.9 104951 0.5 200-240/3 60 1750 H/L 3.7/3.8 9.8/11.0 104952 0.5 480/3 60 1750 K 1.9 5.3 104953 0.5 600/3 60 1750 H 1.4 3.4 104958 0.75 240/1 60 1750 G/K 7.1 25.8 104959 0.75 200-240/3 60 1750 H/K 4.8/4.6 13.7/15.4 104960 0.75 480/3 60 1750 K 2.3 7.7 104961 0.75 600/3 60 1750 L 1.6 7.2 104966 1.0 240/1 60 1750 E/H 5.3/5.1	Nom START LOAD ROTOR AMPS AMPS	Nom START LOAD ROTOR AMPS AMPS

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, 0.530 (13.5mm) O.D.

OPTIONAL - Moisture sensor cord is 18/5 SOW, 0.470 (11.9mm) O.D.

OPTIONAL - Moisture & Temperature sensor cord for 3 phase models is 18/5 SOW, 0.470 (11.9mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 34 DATE 4/04



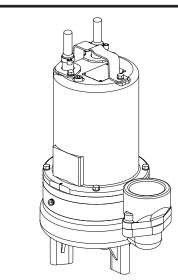


2" Spherical Solids Handling Vortex, Double Seal

Submersible Non-Clog Pumps

		" NPT, Female, Vertical, Bolt-on Flange
	PERATURE1	
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
IMPELLER:		ortex, open, with pump out vanes on
		ack side. Dynamically balanced, ISO G6.3
	MaterialC	Cast Iron ASTM A-48, Class 30
	4	
SQUARE RIN	IGS B	una-N
HARDWARE	3	00 Series Stainless Steel
PAINT	A	ir Dry Enamel
SEAL:		andem Mechanical, Oil filled reservoir
	MaterialC	
	H	lardware -300 Series Stainless
CORD ENTRY	Y 1	5 ft. (5m) Cord with plug on 120 volt &
		5HP, 240 volt, 1 phase. Quick connect
		ustom molded for sealing and strain relief
LIPPER BEAF		ingle Row, Ball, Oil lubricated
		single Row, Ball, Oil lubricated
MOTOR:		IEMA L -Single Phase, NEMA B -Three phase
MOTOR.	9	orque Curve, Oil Filled, Squirrel Cage Induction
	InsulationC	
SINCLE BUA		Permanent Split Capacitor (PSC)
SINGLE PHA		ncludes Overload Protection in Motor
TUDEE DUAG		
THREE PHAS		00-240/480 is Tri-Voltage. 600V. Requires
		Overload Protection to be included in control
l		anel
OPTIONAL E	QUIPMENTS	seal Material, Impeller Trims, Additional cord,

Normally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay in control panel), Normally Open Moisture sensor with cord for DS pumps (Requires

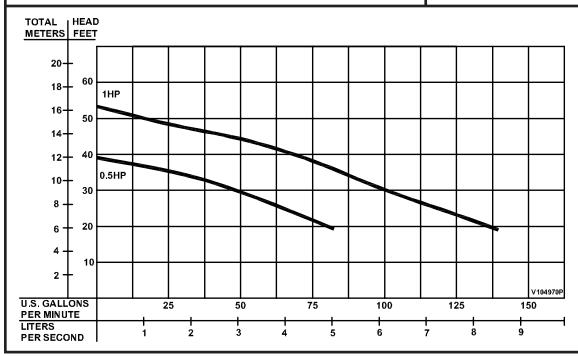


Series: 3SEV-DS .5 & 1 HP, 3450RPM, 60Hz



DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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relay in control panel).

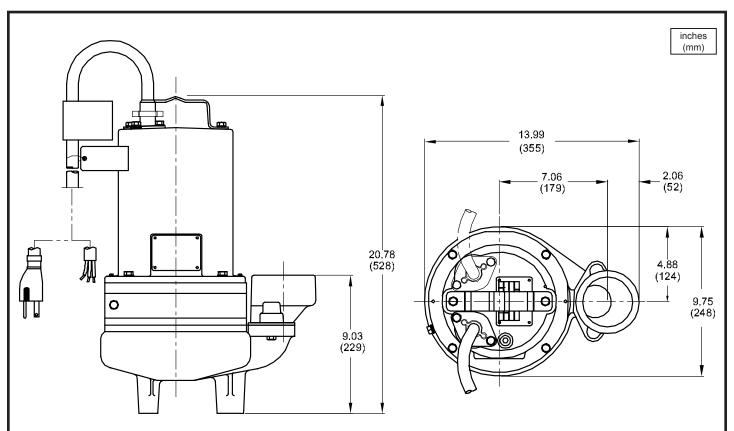
PUMPS & SYSTEMS

SECTION C PAGE 35 DATE 4/04

2" Spherical Solids Handling Vortex, Double Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
3SEV512DS*	104998	0.5	120/1	60	3450	G	12.6	24.6	14/3	SJTOW	0.375 (9.5)
3SEV522DS	104999	0.5	240/1	60	3450	Е	6.0	10.2	14/3	SOW	0.530 (13.5)
3SEV592DS	105000	0.5	200-240/3	60	3450	P/R	5.8/5.3	19.9/18.4	14/4	SOW	0.570 (14.5)
3SEV542DS	105002	0.5	480/3	60	3450	R	2.6	9.1	14/4	SOW	0.570 (14.5)
3SEV552DS	105003	0.5	600/3	60	3450	Т	2.1	8.7	14/4	SOW	0.570 (14.5)
3SEV1022DS	105009	1.0	240/1	60	3450	F	10.7	21.8	14/3	SOW	0.530 (13.5)
3SEV1092DS	105010	1.0	200-240/3	60	3450	H/J	7.9/7.5	19.9/18.4	14/4	SOW	0.570 (14.5)
3SEV1042DS	105012	1.0	480/3	60	3450	J	3.7	9.1	14/4	SOW	0.570 (14.5)
3SEV1052DS	105013	1.0	600/3	60	3450	L	2.9	8.7	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, 0.530 (13.5mm) O.D.

OPTIONAL - Moisture sensor cord is 18/5 SOW, 0.470 (11.9mm) O.D.

OPTIONAL - Moisture & Temperature sensor cord for 3 phase models is 18/5 SOW, 0.470 (11.9mm) O.D.

(*) Pump is CSA listed ONLY.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 36 DATE 4/04



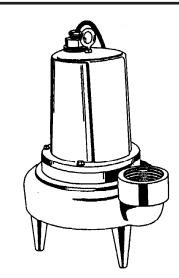




2½" Spherical Solids Handling Single Seal

Submersible Non-Clog Pumps

DISCHARCE		2" NDT Famala Vartical
DISCHARGE	DEDATUDE	3" NPT, Female, Vertical
		104°F (40°C) Continuous
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
IMPELLER:	Design	2 Vane, open with pump out vanes on
		back side. Dynamically balanced, ISO G6.3
	Material	Cast Iron ASTM A-48, Class 30
SHAFT		416 Stainless Steel
SQUARE RIN	NGS	Buna-N
HARDWARE		300 Series Stainless Steel
PAINT		Air Dry Enamel
SEAL:	Design	Single Mechanical
	Material	Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTR	Υ	25 ft. (7.6m) Cord. Quick connect custom
		molded for sealing and strain relief
UPPER BEA	RING	Single Row, Ball, Oil lubricated
		Single Row, Ball, Oil lubricated
MOTOR:		NEMA L -Single Phase, NEMA B -Three phase
	200igii iiiiiiiiiiiiii	Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	
SINGLE PHA		Permanent Split Capacitor (PSC)
OINOLLTIIA	·OL	Includes Overload Protection in Motor
TUDEE DUA	ee	200-240/480 is Tri-Voltage. 600V. Requires
INCEPHA	3E	Overload Protection to be included in control
		panel
OPTIONAL	CHIDMENT	
		Seal Material, Impeller Trims, Additional cord,
Normally Clos	sed Temperature Sen	sors with cord for 3 phase pumps (Requires relay



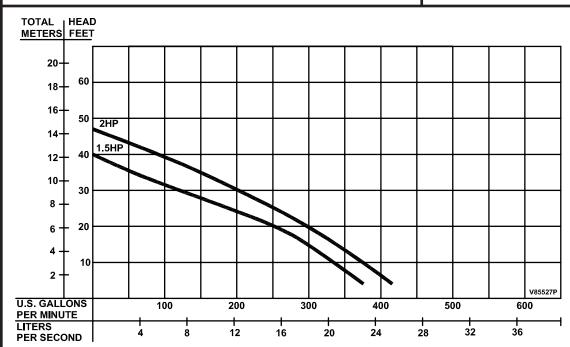
Series: 3SE-L 1.5 & 2HP, 1750RPM, 60Hz



® Canadian Standards Association File No. LR16567

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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in control panel),

PUMPS & SYSTEMS

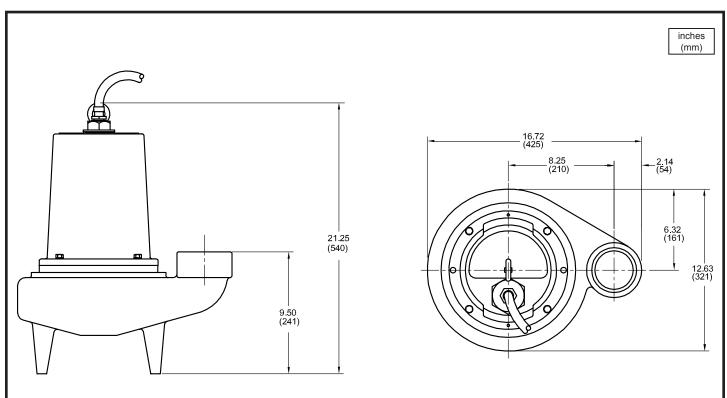
SECTION C PAGE 37 DATE 4/04

Series 3SE-L

2½" Spherical Solids Handling Single Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
3SE1524L	085527	1.5	230/1	60	1750	С	16.0	44.6	10/3	SOW	0.690 (17.5)
3SE1594L	085529	1.5	200-230/3	60	1750	D/G	13.3/11.6	35.8/41.2	10/4	SOW	0.750 (19.1)
3SE1544L	085530	1.5	460/3	60	1750	G	5.8	20.6	10/4	SOW	0.750 (19.1)
3SE1554L	089289	1.5	575/3	60	1750	G	4.6	16.4	10/4	SOW	0.750 (19.1)
3SE2024L	085531	2.0	230/1	60	1750	Α	19.0	44.6	10/3	SOW	0.690 (17.5)
3SE2094L	085533	2.0	200-230/3	60	1750	B/D	15.2/13.2	35.8/41.2	10/4	SOW	0.750 (19.1)
3SE2044L	085534	2.0	460/3	60	1750	D	6.6	20.6	10/4	SOW	0.750 (19.1)
3SE2054L	089290	2.0	575/3	60	1750	D	5.2	16.4	10/4	SOW	0.750 (19.1)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/2 SOW, 0.530 (13.5mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 38 DATE 4/04



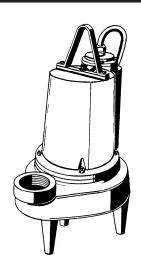




2½" Spherical Solids Handling Heavy Duty, Single Seal

Submersible Non-Clog Pumps

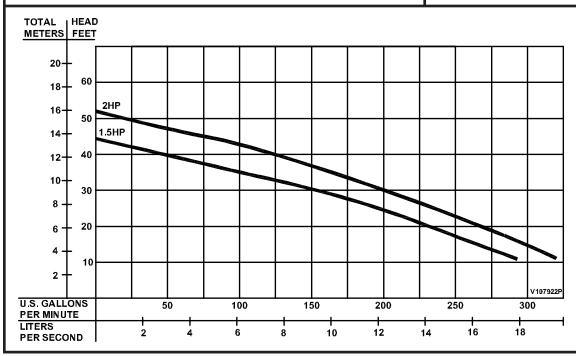
DISCHARGE		3" NPT, Female, Vertical
		104°F (40°C) Continuous
		Cast Iron ASTM A-48. Class 30
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
IMPELLER:		•
IMPELLER:	Design	2 Vane, open with pump out vanes on
		back side. Dynamically balanced, ISO G6.3
		Cast Iron ASTM A-48, Class 30
	IGS	
HARDWARE		300 Series Stainless Steel
PAINT		Air Dry Enamel
SEAL:	Design	Inboard Single Mechanical, Oil filled reservoir
		with Seacondary Exclusion Seal
	Material	Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTR	Υ	25 ft. (7.6m) Cord. Pressure Grommet for
		sealing and strain relief
LIPPER REAL	RING	Single Row, Ball, Oil lubricated
		Single Row, Ball, Oil lubricated
MOTOR:		NEMA L -Single Phase, NEMA B -Three phase
WIOTOK.	Design	Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	
CINICI E BUA		
SINGLE PHA	'9E	Permanent Split Capacitor (PSC)
		Includes Overload Protection in Motor
THREE PHA	SE	200-230/460 is Tri-Voltage. Requires Overload
		Protection to be included in control panel
		Seal Material, Impeller Trims, Additional cord,
,		ors with cord for 3 phase pumps (Requires relay
in control pan	el),	



Series: 3SE-HD 1.5 & 2HP, 1750RPM, 60Hz

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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PUMPS & SYSTEMS

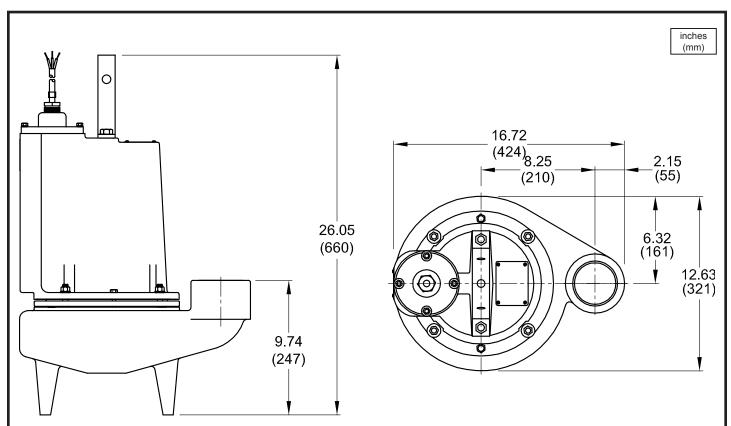
SECTION C PAGE 39 DATE 4/04

Series 3SE-HD

2½" Spherical Solids Handling Heavy Duty, Single Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
3SE1524HD	107922	1.5	230/1	60	1750	В	12.6	23.0	10/3	SOW	0.690 (17.5)
3SE1594HD	107923	1.5	200-230/3	60	1750	H/L	8.8/8.0	30.4/36.0	10/4	SOW	0.750 (19.1)
3SE1544HD	107924	1.5	460/3	60	1750	L	4.0	17.5	10/4	SOW	0.750 (19.1)
3SE2024HD	107926	2.0	230/1	60	1750	В	14.5	29.0	10/3	SOW	0.690 (17.5)
3SE2094HD	107927	2.0	200-230/3	60	1750	J/M	15.4/14.0	44.1/50.8	10/4	SOW	0.750 (19.1)
3SE2044HD	107928	2.0	460/3	60	1750	М	7.0	25.4	10/4	SOW	0.750 (19.1)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/2 SOW, 0.530 (13.5mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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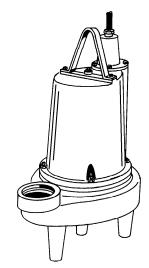




2½" Spherical Solids Handling Single Seal

Submersible Non-Clog Pumps

LIQUID TEM	PERATURE	3" NPT, Female, Vertical 104°F (40°C) Continuous Cast Iron ASTM A-48, Class 30
MOTOR HOU	JSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE		Cast Iron ASTM A-48, Class 30
IMPELLER:	Design	2 Vane, open with pump out vanes on
"""	Deorgii	back side. Dynamically balanced, ISO G6.3
	Matawial	
		Cast Iron ASTM A-48, Class 30
		416 Stainless Steel
SQUARE RIN	NGS	Buna-N
HARDWARE		300 Series Stainless Steel
PAINT		Air Dry Enamel
SEAL:	Desian	Single Mechanical, Oil filled reservoir
		Carbon/Ceramic/Buna-N
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Hardware -300 Series Stainless
CODD ENTE	v	
COKDENIK	. T	25 ft. (7.6m) Cord.Epoxy sealed housing
		with secondary pressure grommet for sealing
		and strain relief
		Single Row, Ball, Oil lubricated
LOWER BEA	RING	Single Row, Ball, Oil lubricated
MOTOR:	Design	NEMA L -Single Phase, NEMA B -Three phase
	3	Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	
SINGLE DUA		Permanent Split Capacitor (PSC)
SINGLE FILE	·OL	Includes Overload Protection in Motor
I HREE PHA	SE	230/460 is Dual Voltage. Requires overload
		Protection to be included in control panel
OPTIONAL E	QUIPMENT	Seal Material, Impeller Trims, Additional cord,
Normally Clos	sed Temperature Sens	ors with cord for 3 phase pumps (Requires relay
in control pan		
	,,	



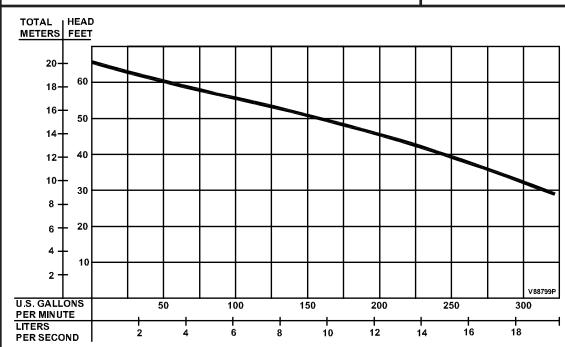
Series: 3SE-L 3HP, 1750RPM, 60Hz



® Canadian Standards Association File No. LR16567

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

PUMPS & SYSTEMS

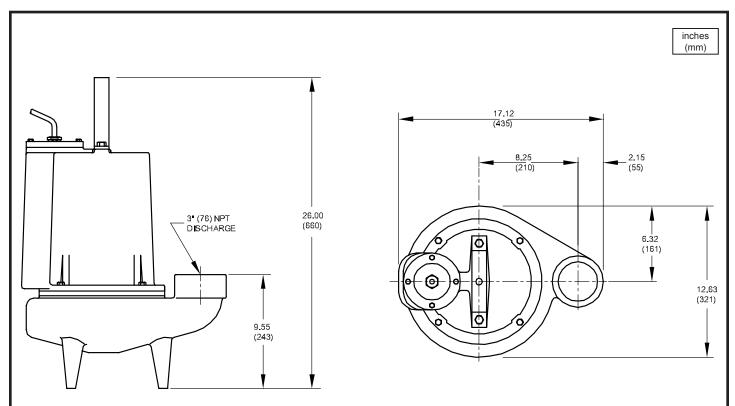
SECTION C PAGE 41 DATE 4/04

Series 3SE-L

2½" Spherical Solids Handling Single Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
3SE3024L	088799	3.0	230/1	60	1750	Α	28.0	59.0	10/3	SOW	0.690 (17.5)
3SE3034L	088800	3.0	230/3	60	1750	D	19.0	56.0	10/4	SOW	0.750 (19.1)
3SE3044L	088801	3.0	460/3	60	1750	D	9.0	28.0	10/4	SOW	0.750 (19.1)
3SE3054L	088802	3.0	575/3	60	1750	Е	8.3	23.0	10/4	SOW	0.750 (19.1)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/2 SOW, 0.530 (13.5mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 42 DATE 4/04



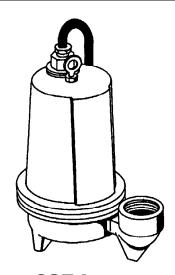




1½" Spherical Solids Handling Single Seal

Submersible Non-Clog Pumps

LIQUID TEMPERATURE 104°F (40°C) Continuous VOLUTE Cast Iron ASTM A-48, Class 30 MOTOR HOUSING Cast Iron ASTM A-48, Class 30 SEAL PLATE Cast Iron ASTM A-48, Class 30 IMPELLER: Design2 Vane, open with pump out vanes on back side. Dynamically balanced, ISO G6.3 Material Cast Iron ASTM A-48, Class 30 SHAFT416 Stainless Steel SQUARE RINGS......Buna-N HARDWARE 300 Series Stainless Steel PAINT..... Air Dry Enamel SEAL: Design Single Mechanical, Oil filled reservoir Material Carbon/Ceramic/Buna-N Hardware -300 Series Stainless CORD ENTRY......25 ft. (7.6m) Cord. Pressure grommet for sealing and strain relief **UPPER BEARING:** 1.0 HP Sleeve, Oil lubricated 1.5 & 2.0HP..... Single Row, Ball, Oil lubricated LOWER BEARING...... Single Row, Ball, Oil lubricated Design NEMA L -Single Phase, NEMA B -Three phase MOTOR: Torque Curve, Oil Filled, Squirrel Cage Induction Insulation......Class A for 1.0HP Class B for 1.5 & 2.0HP SINGLE PHASE......Permanent Split Capacitor (PSC) Includes Overload Protection in Motor THREE PHASE 200-230/460 is Tri-Voltage. Requires overload Protection to be included in control panel OPTIONAL EQUIPMENT Seal Material, Impeller Trims, Additional cord, Normally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay in control panel),



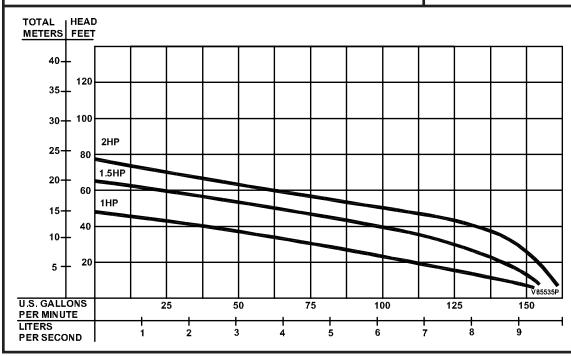
Series: 3SE-L 1.0, 1.5, 2HP, 3450RPM, 60Hz



Canadian Standards Association
 File No. LR16567

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE_®

PUMPS & SYSTEMS

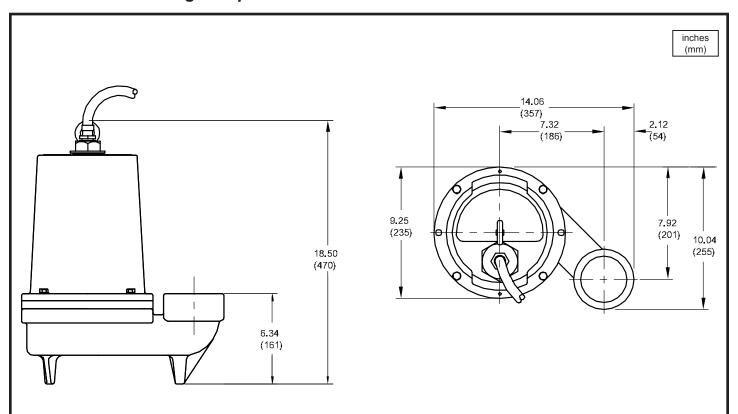
SECTION C PAGE 43 DATE 4/04

Series 3SE-L

1½" Spherical Solids Handling Single Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
3SE1022L	085535	1.0	230/1	60	3450	Α	8.5	17.0	10/3	SOW	0.690 (17.5)
3SE1092L	085536	1.0	200-230/3	60	3450	B/D	5.7/5.0	18.5/21.3	10/4	SOW	0.750 (19.1)
3SE1042L	085537	1.0	460/3	60	3450	D	2.5	10.7	10/4	SOW	0.750 (19.1)
3SE1052L	089291	1.0	575/3	60	3450	D	2.0	8.5	10/4	SOW	0.750 (19.1)
3SE1522L	085538	1.5	230/1	60	3450	Α	12.0	31.0	10/3	SOW	0.690 (17.5)
3SE1592L	085539	1.5	200-230/3	60	3450	C/F	9.8/8.6	31.3/36.0	10/4	SOW	0.750 (19.1)
3SE1542L	085540	1.5	460/3	60	3450	F	4.3	18.0	10/4	SOW	0.750 (19.1)
3SE1552L	089292	1.5	575/3	60	3450	F	3.4	14.4	10/4	SOW	0.750 (19.1)
3SE2022L	085541	2.0	230/1	60	3450	Α	13.5	31.0	10/3	SOW	0.690 (17.5)
3SE2092L	085542	2.0	200-230/3	60	3450	A/C	11.5/10.0	31.3/36.0	10/4	SOW	0.750 (19.1)
3SE2042L	085543	2.0	460/3	60	3450	С	5.0	18.0	10/4	SOW	0.750 (19.1)
3SE2052L	089293	2.0	575/3	60	3450	С	4.0	14.4	10/4	SOW	0.750 (19.1)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/2 SOW, 0.530 (13.5mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 44 DATE 4/04



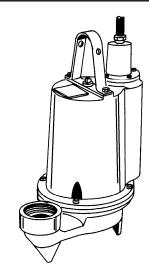




1½" Spherical Solids Handling Single Seal

Submersible Non-Clog Pumps

LIQUID TEMPERATURE 104°F (40°C) Continuous VOLUTE Cast Iron ASTM A-48, Class 30 MOTOR HOUSING Cast Iron ASTM A-48, Class 30 SEAL PLATE Cast Iron ASTM A-48, Class 30 IMPELLER: Design2 Vane, open with pump out vanes on back side. Dynamically balanced, ISO G6.3 Material Cast Iron ASTM A-48, Class 30 SHAFT416 Stainless Steel SQUARE RINGS......Buna-N HARDWARE 300 Series Stainless Steel PAINT..... Air Dry Enamel SEAL: Design Single Mechanical, Oil filled reservoir Material Carbon/Ceramic/Buna-N Hardware -300 Series Stainless sealing and strain relief UPPER BEARING...... Single Row, Ball, Oil lubricated LOWER BEARING...... Single Row, Ball, Oil lubricated Design NEMA B -Three phase Torque Curve, MOTOR: Oil Filled, Squirrel Cage Induction Insulation......Class B THREE PHASE230/460 is Dual Voltage. Requires overload Protection to be included in control panel OPTIONAL EQUIPMENT Seal Material, Impeller Trims, Additional cord, Normally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay in control panel),



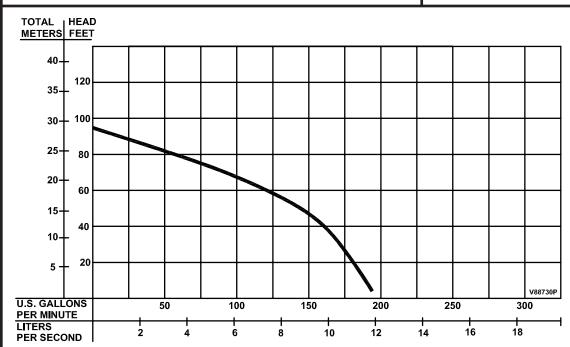
Series: 3SE-L 3HP, 3450RPM, 60Hz



® Canadian Standards Association File No. LR16567

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

A Crane Co. Company

PUMPS & SYSTEMS

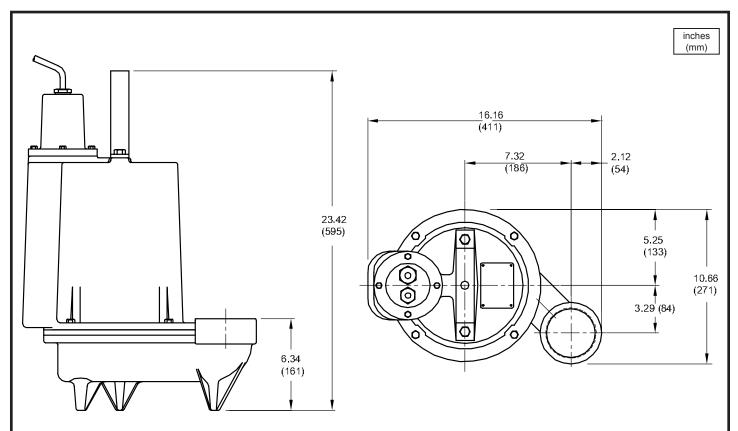
SECTION C PAGE 45 DATE 4/04

Series 3SE-L

1½" Spherical Solids Handling Single Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
3SE3032L	088730	3.0	230/3	60	3450	В	16.4	40.0	10/4	SOW	0.750 (19.1)
3SE3042L	088731	3.0	460/3	60	3450	В	8.2	20.0	10/4	SOW	0.750 (19.1)
3SE3052L	088732	3.0	575/3	60	3450	В	6.5	16.0	10/4	SOW	0.750 (19.1)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/2 SOW, 0.530 (13.5mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 46 DATE 4/04



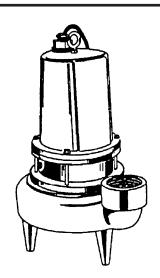




2½" Spherical Solids Handling Double Seal

Submersible Non-Clog Pumps

		3" NPT, Female, Vertical
		104°F (40°C) Continuous
		Cast Iron ASTM A-48, Class 30
MOTOR HOU	SING	Cast Iron ASTM A-48, Class 30
SEAL PLATE		Cast Iron ASTM A-48, Class 30
IMPELLER:	Design	2 Vane, open with pump out vanes on
		back side. Dynamically balanced, ISO G6.3
	Material	Cast Iron ASTM A-48, Class 30
SHAFT		416 Stainless Steel
SQUARE RIN	GS	Buna-N
HARDWARE.		300 Series Stainless Steel
PAINT		Air Dry Enamel
SEAL:	Design	Tandem Mechanical, Oil filled reservoir
		Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTRY	<i>/</i>	25 ft. (7.6m) Cord. Pressure grommet for
		sealing and strain relief
UPPER BEAR	RING	Single Row, Ball, Oil lubricated
LOWER BEAL	RING	Single Row, Ball, Oil lubricated
MOTOR:		NEMA L -Single Phase, NEMA B -Three phase
	3	Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	
SINGLE PHAS	SE	Permanent Split Capacitor (PSC)
		Includes Overload Protection in Motor
THREE PHAS	E	200-230/460 is Tri-Voltage. Requires overload
		Protection to be included in control panel
MOISTURE S	ENSOR	Normally Open, Requires relay in control panel
		Normally Closed, Requires relay in control
		panel. For three phase units ONLY
OPTIONAL FO	QUIPMENT	Seal Material, Impeller Trims, Additional cord,
I -:	~~	33aatanai, imponor mino, mandonai oora,



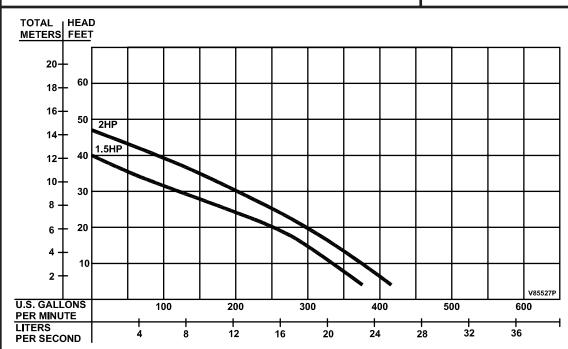
Series: 3SE-DS 1.5 & 2HP, 1750RPM, 60Hz



® Canadian Standards Association File No. LR16567

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

A Crane Co. Company

PUMPS & SYSTEMS

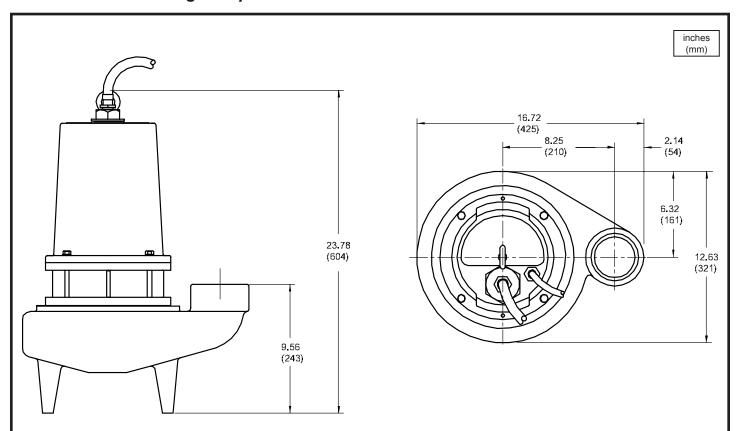
SECTION C PAGE 47 DATE 4/04

Series 3SE-DS

2½" Spherical Solids Handling Double Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
3SE1524DS	084921	1.5	230/1	60	1750	С	16.0	44.6	10/3	SOW	0.690 (17.5)
3SE1594DS	084927	1.5	200-230/3	60	1750	D/G	13.3/11.6	35.8/41.2	10/4	SOW	0.750 (19.1)
3SE1544DS	084930	1.5	460/3	60	1750	G	5.8	20.6	10/4	SOW	0.750 (19.1)
3SE1554DS	089294	1.5	575/3	60	1750	G	4.6	16.4	10/4	SOW	0.750 (19.1)
3SE2024DS	084937	2.0	230/1	60	1750	Α	19.0	44.6	10/3	SOW	0.690 (17.5)
3SE2094DS	084939	2.0	200-230/3	60	1750	B/D	15.2/13.2	35.8/41.2	10/4	SOW	0.750 (19.1)
3SE2044DS	084940	2.0	460/3	60	1750	D	6.6	20.6	10/4	SOW	0.750 (19.1)
3SE2054DS	089295	2.0	575/3	60	1750	D	5.2	16.4	10/4	SOW	0.750 (19.1)

Moisture & Temperature sensor cord for all models is 18/5 SOW, 0.476 O.D.

OPTIONAL - Temperature sensor cord for 3 phase models is 14/2 SOW, 0.530 (13.5mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 48 DATE 4/04







2½" Spherical Solids Handling Double Seal

Submersible Non-Clog Pumps

LIQUID TEMF	PERATURE	3" NPT, Female, Vertical 104°F (40°C) Continuous
		Cast Iron ASTM A-48, Class 30
MOTOR HOU	SING	Cast Iron ASTM A-48, Class 30
SEAL PLATE		Cast Iron ASTM A-48, Class 30
IMPELLER:	Design	2 Vane, open with pump out vanes on
		back side. Dynamically balanced, ISO G6.3
	Material	Cast Iron ASTM A-48, Class 30
SHAFT		416 Stainless Steel
	IGS	
HARDWARE		300 Series Stainless Steel
		Double Mechanical, Oil filled pressure
	· · · · · · · · · · · · · · · · ·	equalized reservoir
	Material	Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD FNTR	Y	25 ft. (7.6m) Cord. Pressure grommet for
		sealing and strain relief
IIPPER REAF	RING	Single Row, Ball, Oil lubricated
		Single Row, Ball, Oil lubricated
MOTOR:		NEMA L -Single Phase, NEMA B -Three phase
MOTOR.	Design	Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	, , ,
SINGLE DHA		Permanent Split Capacitor (PSC)
SINGLE FIIA	OL	Includes Overload Protection in Motor
TUDEE DUAG	26	230/460 is Dual Voltage. Requires overload
INKEEFNAS)	Protection to be included in control panel
MOISTURES	ENCOR	Normally Open, Requires relay in control panel
		Normally Closed, Requires relay in control
I IEWIPERATU	KE SENSUR	panel. For three phase units ONLY
ODTIONAL E	OUIDMENT	•
OPTIONALE	QUIPWENT	Seal Material, Impeller Trims, Additional cord,



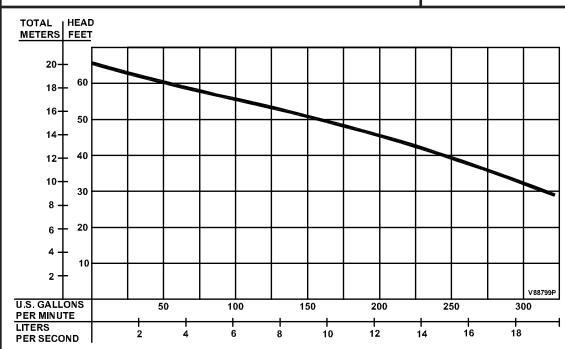
Series: 3SE-DS 3HP, 1750RPM, 60Hz



® Canadian Standards Association File No. LR16567

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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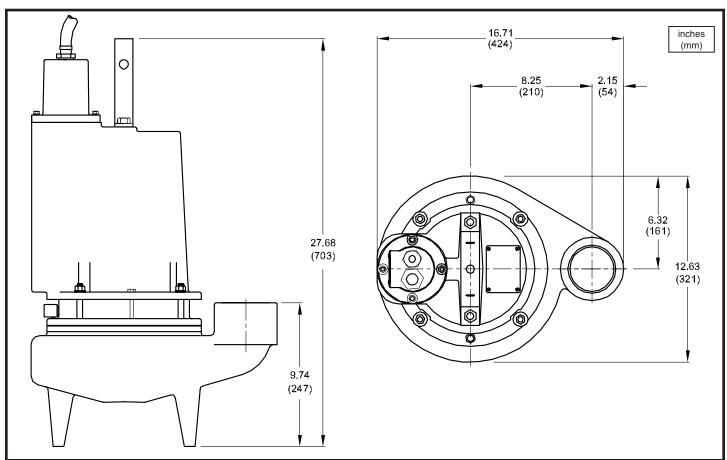
SECTION C PAGE 49 DATE 4/04

Series 3SE-DS

2½" Spherical Solids Handling Double Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
3SE3024DS	088817	3.0	230/1	60	1750	Α	28.0	59.0	10/3	SOW	0.690 (17.5)
3SE3034DS	088818	3.0	230/3	60	1750	D	19.0	56.0	10/4	SOW	0.750 (19.1)
3SE3044DS	088819	3.0	460/3	60	1750	D	9.0	28.0	10/4	SOW	0.750 (19.1)
3SE3054DS	088820	3.0	575/3	60	1750	Е	8.3	23.0	10/4	SOW	0.750 (19.1)

Moisture & Temperature sensor cord for all models is 18/5 SOW, 0.476 O.D. OPTIONAL - Temperature sensor cord for 3 phase models is 14/2 SOW, 0.530 (13.5mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 50 DATE 4/04



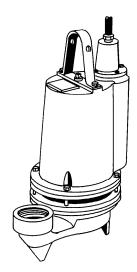




1½" Spherical Solids Handling Double Seal

Submersible Non-Clog Pumps

LIQUID TEM VOLUTE MOTOR HOL	PERATURE JSING	3" NPT, Female, Vertical 104°F (40°C) Continuous Cast Iron ASTM A-48, Class 30 Cast Iron ASTM A-48, Class 30 Cast Iron ASTM A-48, Class 30
IMPELLER:	Design	2 Vane, open with pump out vanes on back side. Dynamically balanced, ISO G6.3
SHAFT	Material	Cast Iron ASTM A-48, Class 30
	NGS	
		300 Series Stainless Steel Air Dry Enamel
SEAL:		Double Mechanical, Oil filled pressure equalized reservoir
	Material	Carbon/Ceramic/Buna-N
CORD ENTR	Υ	Hardware -300 Series Stainless 25 ft. (7.6m) Cord. Epoxy sealed housing with
OOKS ENTIN		Secondary pressure grommet for sealing and strain relief
UPPER BEA		
		Sleeve, Oil lubricated
		Single Row, Ball, Oil lubricated
		Single Row, Ball, Oil lubricated
MOTOR:	Design	NEMA L -Single Phase, NEMA B -Three phase Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	
		Class B for 1.5 thru 3.0HP
SINGLE PHA	\SE	Permanent Split Capacitor (PSC)
THREE PHA		Includes Overload Protection in Motor 230/460 is Dual Voltage. Requires overload
	SENSOR	Protection to be included in control panel Normally Open, Requires relay in control panel Normally Closed, Requires relay in control panel.
OPTIONAL E	QUIPMENT	Seal Material, Impeller Trims, Additional cord,



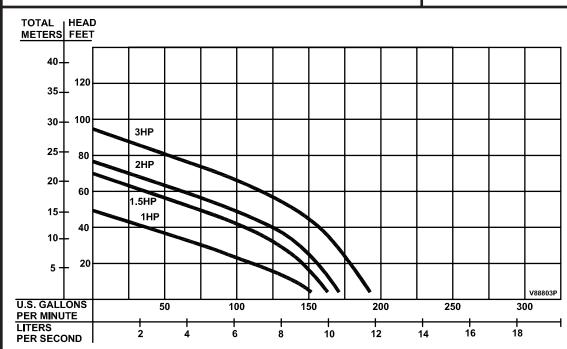
Series: 3SE-DS 1.0 - 3HP, 3450RPM, 60Hz



® Canadian Standards Association File No. LR16567

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

PUMPS & SYSTEMS

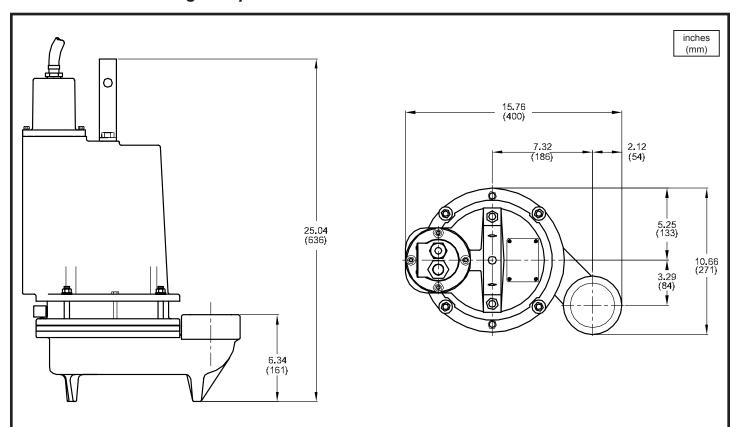
SECTION C PAGE 51 DATE 4/04

Series 3SE-DS

11/2" Spherical Solids Handling Double Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
3SE1022DS	088803	1.0	230/1	60	3450	G	8.5	26.0	10/3	SOW	0.690 (17.5)
3SE1032DS	088804	1.0	230/3	60	3450	K	5.0	22.0	10/4	SOW	0.750 (19.1)
3SE1042DS	088805	1.0	460/3	60	3450	K	2.5	11.0	10/4	SOW	0.750 (19.1)
3SE1052DS	088806	1.0	575/3	60	3450	K	2.0	8.8	10/4	SOW	0.750 (19.1)
3SE1522DS	088807	1.5	230/1	60	3450	Е	12.0	31.0	10/3	SOW	0.690 (17.5)
3SE1532DS	088808	1.5	230/3	60	3450	J	8.6	27.0	10/4	SOW	0.750 (19.1)
3SE1542DS	088809	1.5	460/3	60	3450	J	4.3	13.5	10/4	SOW	0.750 (19.1)
3SE1552DS	088810	1.5	575/3	60	3450	J	3.4	10.8	10/4	SOW	0.750 (19.1)
3SE2022DS	088811	2.0	230/1	60	3450	Е	13.5	42.0	10/3	SOW	0.690 (17.5)
3SE2032DS	088812	2.0	230/3	60	3450	G	9.0	30.0	10/4	SOW	0.750 (19.1)
3SE2042DS	088813	2.0	460/3	60	3450	G	4.5	15.0	10/4	SOW	0.750 (19.1)
3SE2052DS	088814	2.0	575/3	60	3450	G	3.6	12.0	10/4	SOW	0.750 (19.1)
3SE3032DS	088815	3.0	230/3	60	3450	F	16.4	40.0	10/4	SOW	0.750 (19.1)
3SE3042DS	088816	3.0	460/3	60	3450	F	8.2	20.0	10/4	SOW	0.750 (19.1)
3SE3052DS	089296	3.0	575/3	60	3450	F	6.5	16.0	10/4	SOW	0.750 (19.1)

Moisture & Temperature sensor cord for all models is 18/5 SOW, 0.476 O.D.

OPTIONAL - Temperature sensor cord for 3 phase models is 14/2 SOW, 0.530 (13.5mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE DATE 4/04



A Crane Co. Company





Submersible Non-Clog Pumps



SE411ASP or SEV412ASP:

One - SE411A or SEV412A,

60Hz Heavy duty sewage pump

One - Level Control

Mechanical switch molded inside of a waterproof float. Single control turns pump on and off automatically.

One - 1830 Polyethylene Basin

18" (457mm) Dia. x 30" (762mm) Deep, with 4" (102mm) Inlet Hole.

One - 4" (102mm) Flexible Pipe Fitting Inlet Super-tuff Sanoprene construction

One - 18S22 Steel Cover

With black powder coating, 2" (51mm) vent and 2" (51mm)

Discharge and cord openings

One - 2" (51mm) Vertical Check Valve

With hose adaptors and clamps

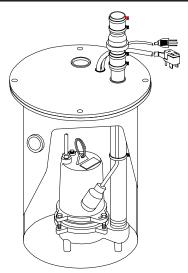
Sch. 40 Discharge pipe, cover gasket, cover hardware, cord grommet, dischage and vent grommets also included.

SEV412ASPI:

A Pre-Assembled simplex package same as SEV412ASP except it is IAPMO approved.

For additional pump data see: Sect. C pages 1 & 2 for SE411 and

Sect. C pages 5 & 6 for SEV412.

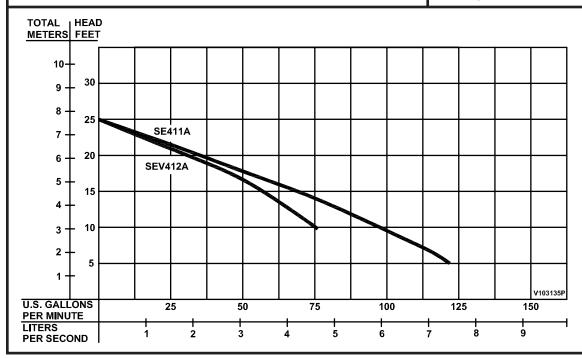


Series: SE411ASP SEV412ASP SEV412ASPI*

(*) IAPMO APPROVED

DESCRIPTION:

SIMPLEX SYSTEMS (ONE PUMP) ARE GOOD FOR RESIDENCES AND SMALL INDUSTRIAL SEWAGE OR SUMP APPLICATIONS. THEY ARE DESIGNED TO HANDLE WASTES FROM LAVATORIES, LAUNDRY TUBS, FLOOR DRAINS, WATER CLOSETS, ETC., AND WILL PUSH THE WATER FROM BELOW GROUND UP TO WHERE NORMAL DRAINAGE WILL HANDLE IT.



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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A Crane Co. Company

PUMPS & SYSTEMS

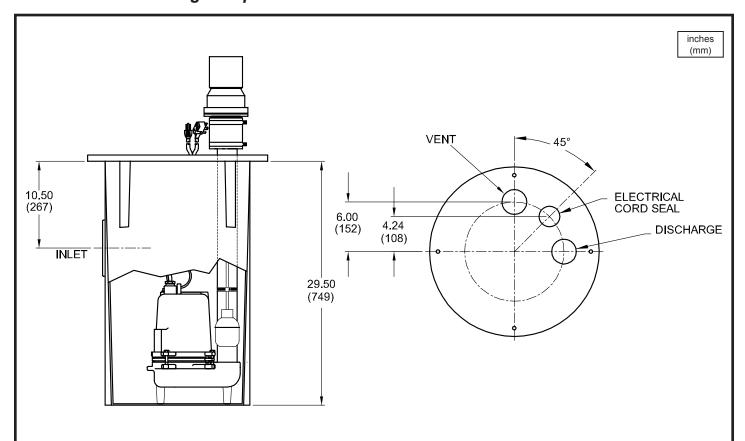
SECTION C PAGE 53 DATE 4/04

Series SE & SEV-ASP

Pre-Assembled Simplex Systems



Submersible Non-Clog Pumps



MODEL NO	PART NO	DISCHARGE SIZE inch (mm)	VENT SIZE inch (mm)	INLET SIZE inch (mm)
SE411ASP	103135	2" (51)	2" (51)	4" (102)
SEV412ASP	102160	2" (51)	2" (51)	4" (102)
SEV412ASPI	102161	2" (51)	2" (51)	4" (102)

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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Submersible Non-Clog Pumps

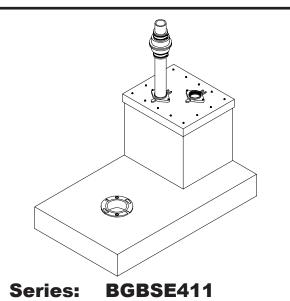
The Basement Genie Basin can be installed almost anywhere. It can accommodate a toilet, vanity, humidifier or shower. It is perfect for basements, family rooms, warehouses, factories and room additions. Fits almost anywhere and can be used with many toilet styles. The Basement Genie Basin can be installed free standing on any level surface (no need to destroy concrete floors) or the tank and all piping can be hidden behind a wall and under the floor.

System includes pump, basin, 2" PVC discharge pipe, 2" NPT vent flange, 2" straight discharge flange, 2" rubber gasket, cast iron closet flange, rubber cord grommet, 3/8" foam lid gasket, 2" check valve and hardware.

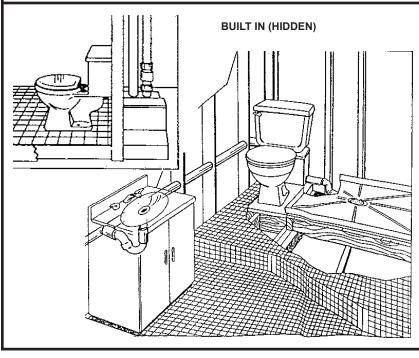
STANDARD (COLOR White
MATERIAL	Polyethylene
WEIGHT:	BGBSEV412 92 lbs.
	BGBSE411 102 lbs

PART NUMBER	SYSTEM MODEL NUMBER	PUMP MODEL NUMBER	PUMP PART NUMBER	SEE PUMP DATA ON PAGES:
102147	BGBSEV412	SEV412VF	101294	Sect. C Pages 5 - 6
102148	BGBSE411	SE411VF	100836	Sect. C Pages 1 - 2

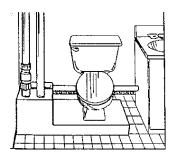
See Section E for basin only.



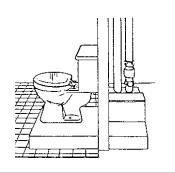
BGBSEV412



EXPOSED CORNER LOCATION



PARTIALLY EXPOSED ON TILE



PUMPS & SYSTEMS

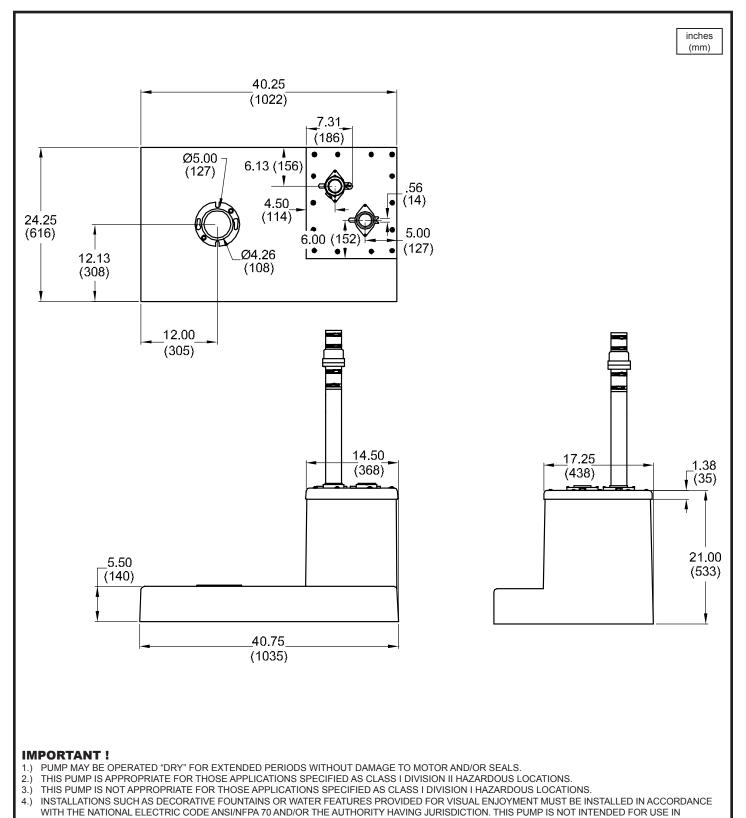
SECTION C PAGE 55 DATE 4/04

Series BGBSE

Basement Genie Systems



Submersible Non-Clog Pumps



SECTION C PAGE 56 DATE 4/04



SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.





Simplex Sewage Package Systems
Un-Assembled

Submersible Non-Clog Pumps

SE411-SP:

One - SE411, .4HP, 115 Volt, 60Hz

Heavy duty sewage pump. Rugged cast iron body and impeller

One - Level Control P/N: 101758

Mechanical switch molded inside of a waterproof float. Single

control turns pump on and off automatically.

One - 1830 Polyethylene Basin P/N: 076119

18" (457mm) Dia. x 30" (762mm) Deep, with 4" (102mm) Inlet Hole.

One - 4" (102mm) Flexible Pipe Fitting Inlet P/N: 076149

Super-tuff Sanoprene construction

One - 18S22 Steel Cover P/N: 076120

With black powder coating, 2" (51mm) vent and 2" (51mm)

Discharge and cord openings

One - 2" (51mm) Vertical Check Valve P/N: 066828

With hose adaptors and clamps

SE51-SP:

One -

One - SE51, .5HP, 115 Volt, 60Hz

Heavy duty sewage pump. Rugged cast iron body and impeller

One - Vertical Level Control P/N: 093474

Vertical float, PVC, Snap action, 15 ft. (5m) cord w/Piggy-Back

plug. OFF point only is adjustable.

1830 Polyethylene Basin P/N: 076119

18" (457mm) Dia. x 30" (762mm) Deep, with 4" (102mm) Inlet Hole.

One - 4" (102mm) Flexible Pipe Fitting Inlet P/N: 076149

Super-tuff Sanoprene construction
One - 18S22 Steel Cover P/N: 076120

With black powder coating, 2" (51mm) vent and 2" (51mm)

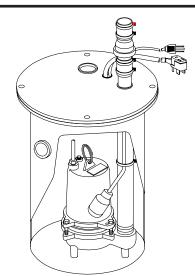
Discharge and cord openings

One - 2" (51mm) Vertical Check Valve P/N: 066828

With hose adaptors and clamps

NOTE: DISCHARGE PIPE NOT SUPPLIED.

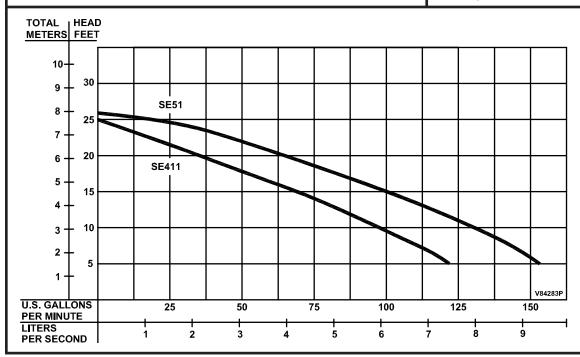
Other accessories may be ordered separately.



Series: SE411-SP, 60Hz SE51-SP, 60Hz

DESCRIPTION:

SIMPLEX SYSTEMS (ONE PUMP) ARE GOOD FOR RESIDENCES AND SMALL INDUSTRIAL SEWAGE OR SUMP APPLICATIONS. THEY ARE DESIGNED TO HANDLE WASTES FROM LAVATORIES, LAUNDRY TUBS, FLOOR DRAINS, WATER CLOSETS, ETC., AND WILL PUSH THE WATER FROM BELOW GROUND UP TO WHERE NORMAL DRAINAGE WILL HANDLE IT.



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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PUMPS & SYSTEMS

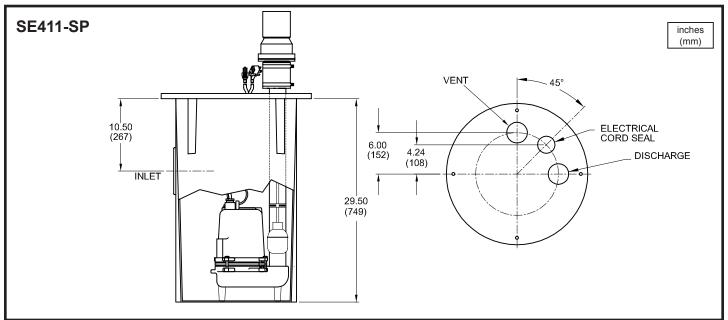
SECTION C PAGE 57 DATE 4/04

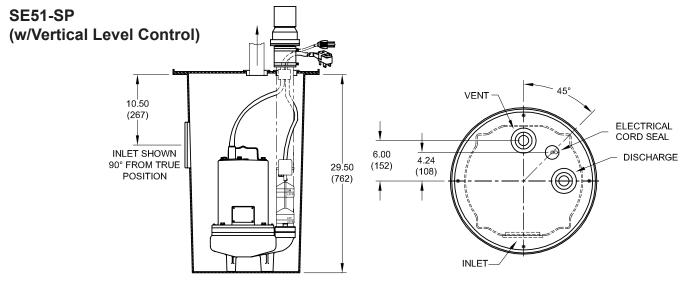
Series SE-SP

Simplex Sewage Package Systems Un-Assembled



Submersible Non-Clog Pumps





MODEL NO	PART NO	DISCHARGE SIZE inch (mm)	VENT SIZE inch (mm)	INLET SIZE inch (mm)
SE411-SP	084283B	2" (51)	2" (51)	4" (102)
SE51-SP	105086	2" (51)	2" (51)	4" (102)
SEV412-SP	105367	2" (51)	2" (51)	4" (102)

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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Simplex Sewage Package Systems **Un-Assembled**

Submersible Non-Clog Pumps

SEV421-SP:

SEV421-SP, .5HP, 115 Volt, 60Hz

Heavy duty sewage pump. Rugged cast iron body and impeller

One -Level Control P/N: 101758

Mechanical switch molded inside of a waterproof float. Single

control turns pump on and off automatically.

18x30 Polyethylene Basin P/N: 110699 One -

18" (457mm) Dia. x 30" (762mm) Deep, with 4" (102mm) Inlet Polyethylene structural foam, 30 US gallons (113.6 Liters) capacity,

1/4" (6.5mm) wall thickness

One -4" (102mm) Flexible Pipe Fitting Inlet P/N: 076149

Super-tuff Sanoprene construction

One -10PS Cover P/N: 102227

Polyethylene, 2" (51mm) vent and 2" (51mm) Discharge, gasket,

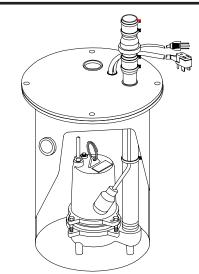
cord grommet, two pipe grommets and four bolts with washers.

2" (51mm) Vertical Check Valve P/N: 066828 One -

With hose adaptors and clamps

Discharge pipe P/N: 104601 One -

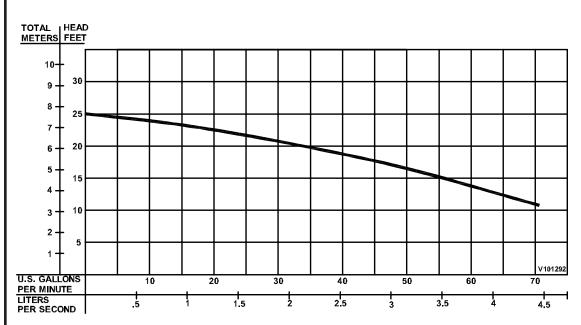
PVC, Sch. 40, 32" (813mm) long



SEV421-SP, 60Hz Series:

DESCRIPTION:

SIMPLEX SYSTEMS (ONE PUMP) ARE GOOD FOR RESI-DENCES AND SMALL INDUSTRIAL SEWAGE OR SUMP APPLICATIONS. THEY ARE DESIGNED TO HANDLE WASTES FROM LAVATORIES, LAUNDRY TUBS, FLOOR DRAINS, WATER CLOSETS, ETC., AND WILL PUSH THE WATER FROM BELOW GROUND UP TO WHERE NORMAL DRAINAGE WILL HANDLE IT.



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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PUMPS & SYSTEMS

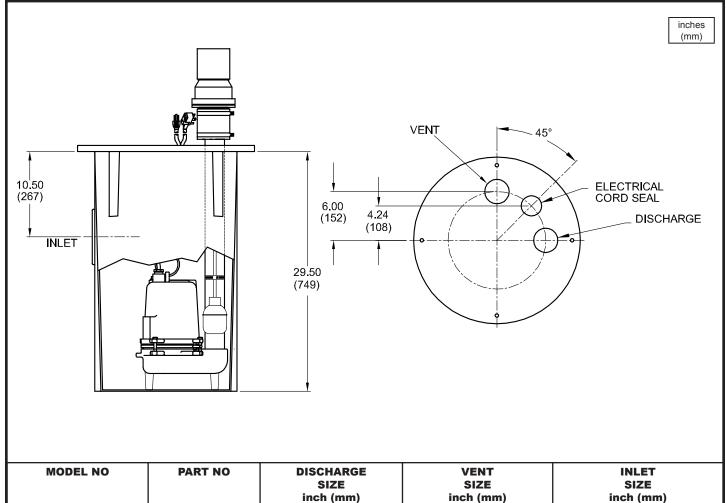
SECTION C PAGE 59 4/04 DATE

Series SEV-SP

Simplex Sewage Package Systems Un-Assembled



Submersible Non-Clog Pumps



MODEL NO	PART NO	DISCHARGE SIZE inch (mm)	VENT SIZE inch (mm)	INLET SIZE inch (mm)
SE421-SP	105367	2" (51)	2" (51)	4" (102)

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE DATE 4/04







2½" Spherical Solids Handling Single Seal

Submersible Non-Clog Pumps

DISCHARGE		4", 125 lb, Flange Horizontal
		4 , 123 lb, Flange Honzontal 104°F (40°C) Continuous
		Cast Iron ASTM A-48, Class 30
		Cast from ASTM A-46, Class 30
		Cast Iron ASTM A-48, Class 30
IMPELLER:	Design	2 Vane, open with pump out vanes on
	Matarial	back side. Dynamically balanced, ISO G6.3
		Cast Iron ASTM A-48, Class 30
		416 Stainless Steel
	IGS	
		300 Series Stainless Steel
		•
SEAL:	Design	Single Mechanical, Oil filled reservoir, with
		Secondary Exclusion seal
	Material	Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTR	Υ	25 ft. (7.6m) Cord. Epoxy sealed housing with
		Secondary pressure grommet for sealing and
		strain relief
		Single Row, Ball, Oil lubricated
		Single Row, Ball, Oil lubricated
MOTOR:	Design	NEMA L -Single Phase, NEMA B -Three phase
		Torque Curve, Oil Filled, Squirrel Cage Induction
	Insulation	
SINGLE PHA	SE	Permanent Split Capacitor (PSC)
		Includes Overload Protection in Motor
THREE PHAS	SE	Tri Voltage 200-230/460. Requires overload
		Protection to be included in control panel
TEMPERATU	RE SENSOR	Normally Closed, Requires relay in control
		panel.
OPTIONAL E	QUIPMENT	Seal Material, Impeller Trims, Additional cord,
		Temperature sensor with cord.



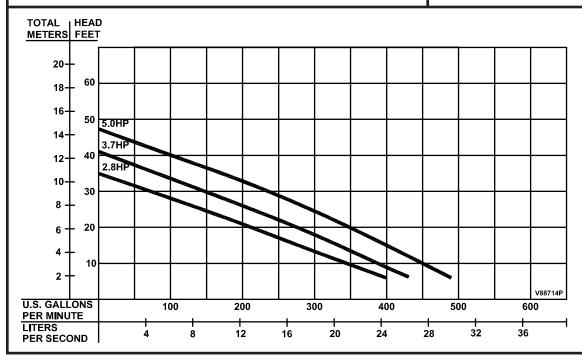
Series: 4SE-SS 2.8, 3.7 & 5HP, 1750RPM, 60Hz



® Canadian Standards Association File No. LR16567

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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PUMPS & SYSTEMS

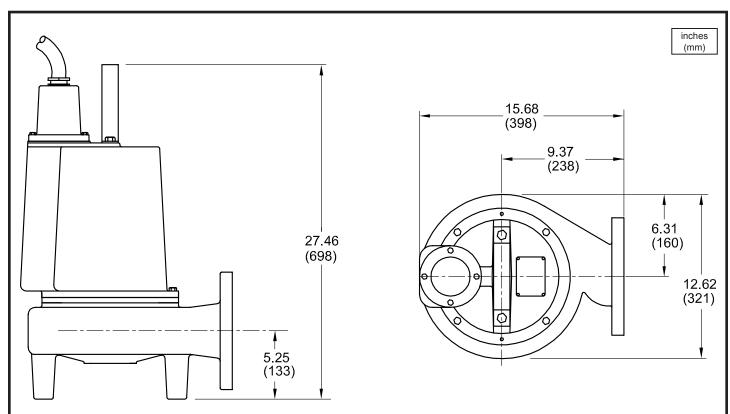
SECTION C PAGE 61 DATE 2/05

Series 4SE-SS

2½" Spherical Solids Handling Single Seal



Submersible Non-Clog Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
4SE2824SS	088714	2.8	230/1	60	1750	Α	12.6	23.0	10/3	SOW	0.690 (17.5)
4SE2894SS	088715	2.8	200-230/3	60	1750	C/E	8.8/8.0	30.4/35.0	10/4	SOW	0.750 (19.1)
4SE2844SS	088716	2.8	460/3	60	1750	Е	4.0	17.5	10/4	SOW	0.750 (19.1)
4SE2854SS	088717	2.8	575/3	60	1750	Е	3.2	14.0	10/4	SOW	0.750 (19.1)
4SE3724SS	088718	3.7	230/1	60	1750	Α	18.5	29.0	10/3	SOW	0.690 (17.5)
4SE3794SS	088719	3.7	200-230/3	60	1750	D/F	15.4/14.0	44.1/50.8	10/4	SOW	0.750 (19.1)
4SE3744SS	088720	3.7	460/3	60	1750	F	7.0	25.4	10/4	SOW	0.750 (19.1)
4SE3754SS	088721	3.7	575/3	60	1750	F	5.6	20.0	10/4	SOW	0.750 (19.1)
4SE5024SS	088722	5.0	230/1	60	1750	Α	28.0	59.0	10/3	SOW	0.690 (17.5)
4SE5094SS	088723	5.0	200-230/3	60	1750	B/D	20.9/19.0	48.6/56.0	10/4	SOW	0.750 (19.1)
4SE5044SS	088724	5.0	460/3	60	1750	D	9.0	28.0	10/4	SOW	0.750 (19.1)
4SE5054SS	088725	5.0	575/3	60	1750	Е	8.3	23.0	10/4	SOW	0.750 (19.1)

OPTIONAL - Temperature sensor cord for all phase models is 18/5 SOW, 0.476 (12.1mm) O.D.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION C PAGE 62 DATE 2/05





Single Phase, Simplex 120/208/240 VAC

Panels & Controls

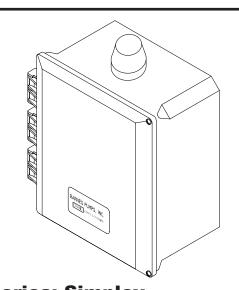
The Simplex controls are supplied in a NEMA 4X weathertight thermoplastic enclosure with removable mounting flanges for indoor/outdoor mounting.

Each will contain a two pole, amperage rated magnetic motor contactor for pump control and a circuit breaker for pump disconnects and branch circuit protection. A hand-off-automatic switch is provided for manual operation of the pump. Pump run, control power, and alarm power indicators are provided with separate control and alarm fuses.

Terminal blocks are provided for customer connection of power, pump leads, and level switches or other pilot controls.

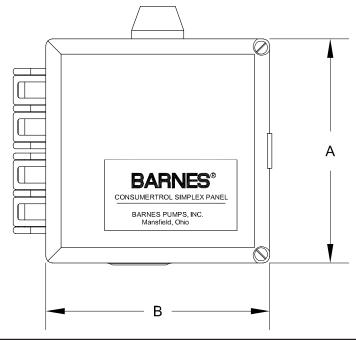
The Alarm package includes a top mounted, red beacon for 360° visual checks and a horn for audio warning of alarm conditions. A test-normal-silence switch is provided for testing of the alarm and silencing of the horn. A horn silence relay automatically resets the alarm horn after alarm condition has been resolved.

PART NO.	PUMP FULL LOAD AMPS	CIRCUIT BREAKER	CONTACTOR	PH
106480	0 - 7	2 Pole, 15 Amp	2 Pole, 20 Amp	1
106481	7 - 15	2 Pole, 20 Amp	2 Pole, 20 Amp	1
106482	15 - 20	2 Pole, 30 Amp	2 Pole, 30 Amp	1



Series: Simplex P/N: 106480 thru 106482





A - Height	B - Width	C - Depth
8 (203)	8 (203)	4 (102)

— B ———

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PUMPS & SYSTEMS

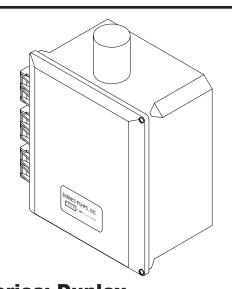
SECTION D PAGE 1 DATE 4/04

inches (mm)

Single Phase, Duplex, Alternating 120/208/240 VAC



Panels & Controls



Series: Duplex P/N: 106483 thru 106485



The Duplex controls are supplied in a NEMA 4X weathertight thermoplastic enclosure with removable mounting flanges for indoor/outdoor mounting. Each will contain two pole, amperage rated magnetic motor contactors for pump control and circuit breakers for pump disconnects and branch circuit protection. Hand-off-automatic switches are provided for manual operation of the pumps. Pump run, float status, and control/alarm power indicators are provided as well as a control/alarm fuse and on/off switch.

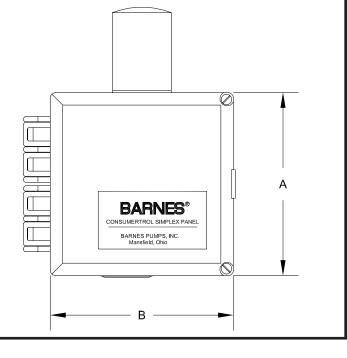
Terminal blocks are provided for customer connection of power, pump leads, and level switches or other pilot controls. The alternating action equalizes pump wear. In addition to the alternating pump control, this system provides override control should either pump fail.

The Alarm package includes a top mounted red beacon for 360° visual checks and a horn for audio warning of alarm conditions. A test-normal-silence switch is provided for testing of the alarm and silencing of the horn. A horn silence relay automatically resets the alarm horn after alarm condition has been resolved.

PART NO.	PUMP FULL LOAD AMPS	CIRCUIT BREAKER	CONTACTOR	PH
106483	0 - 7	2 Pole, 15 Amp	2 Pole, 25 Amp	1
106484	7 - 15	2 Pole, 20 Amp	2 Pole, 25 Amp	1
106485	15 - 20	2 Pole, 30 Amp	2 Pole, 25 Amp	1

inches (mm)

A - Height	B - Width	C - Depth	
12 (305)	10 (254)	6 (152)	



SECTION D PAGE 2 DATE 4/04



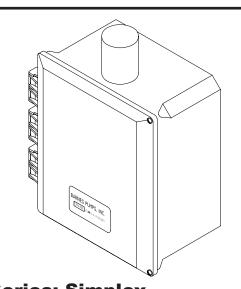


Three Phase, Simplex 208/240/480 VAC

Panels & Controls

The Simplex controls are supplied in a NEMA 4X weathertight thermoplastic enclosure with removable flanges for indoor/outdoor mounting. Each will contain a three pole, amperage rated magnetic motor contactor for pump control and a motor protection switch that provides for adjustable overload, built-in circuit breaker, and pump disconnect. A multi-tap transformer for 208/240/480 VAC provides 120V control/alarm voltage. A hand-off-automatic switch is provided for manual operation of the pump. Pump run, control power, and alarm power indicators are provided with separate control and alarm fuses. Terminal blocks are provided for customer connection of power, pump leads, and level switches or other pilot controls. The Alarm package includes a top mounted red beacon for 360° visual checks and a horn for audio warning of alarm conditions. A test-normal-silence switch is provided for testing of the alarm and silencing of the horn. A horn silence relay automatically resets the alarm horn after alarm condition has been resolved.

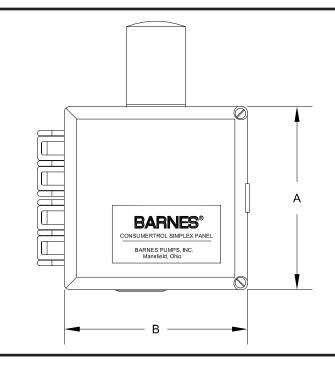
PART NO.	PUMP FULL LOAD AMPS	CIRCUIT BREAKER	CONTACTOR
106486	1 - 1.6	Intregal w/Protector	17 AMP
106488	1.6 - 2.5	Intregal w/Protector	17 AMP
106490	2.5 - 4.0	Intregal w/Protector	17 AMP
106492	4.0 - 6.3	Intregal w/Protector	17 AMP
106494	6 - 10	Intregal w/Protector	17 AMP
106495	9 - 14	Intregal w/Protector	17 AMP
106497	13 - 18	Intregal w/Protector	25 AMP



Series: Simplex P/N: 106486 thru 106497



A - Height 12 (305)



B - Width	C - Depth
10 (254)	6 (152)

inches (mm)

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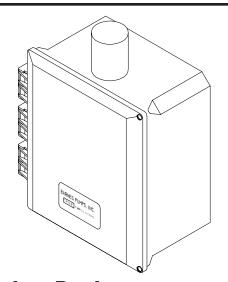
PUMPS & SYSTEMS

SECTION D PAGE 3 DATE 4/04

Three Phase, Duplex, Alternating 208/240/480 VAC



Panels & Controls



Series: Duplex P/N: 106498 thru 106509



The Duplex controls are supplied in a NEMA 4X weathertight thermoplastic enclosure with removable flanges for indoor/outdoor mounting. Each will contain three pole, amperage rated magnetic motor contactors for pump control and motor protection switches that provide for adjustable overloads, built-in circuit breakers, and pump disconnects.

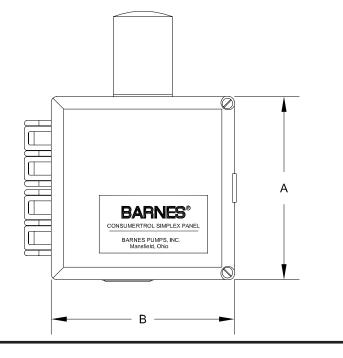
A multi-tap transformer for 208/240/480 VAC provides 120V control/alarm voltage. Hand-off-automatic switchs are provided for manual operation of the pumps. Pump run, float status, and control/alarm power indicators are provided as well as a control/alarm fuse and ON/OFF switch.

Terminal blocks are provided for customer connection of power, pump leads, and level switches or other pilot controls. The alternating action equalizes pump wear. In addition to the alternating pump control, this system provides override control should either pump fail. The Alarm package includes a top mounted red beacon for 360° visual checks and a horn for audio warning of alarm conditions. A test-normal-silence switch is provided for testing of the alarm and silencing of the horn. A horn silence relay automatically resets the alarm horn after alarm condition has been resolved.

PART NO.	PUMP FULL LOAD AMPS	CIRCUIT BREAKER	CONTACTOR
106498	1 - 1.6	Intregal w/Protector	17 AMP
106500	1.6 - 2.5	Intregal w/Protector	17 AMP
106502	2.5 - 4.0	Intregal w/Protector	17 AMP
106504	4.0 - 6.3	Intregal w/Protector	17 AMP
106506	6 - 10	Intregal w/Protector	17 AMP
106507	9 - 14	Intregal w/Protector	17 AMP
106509	13 - 18	Intregal w/Protector	25 AMP

inches (mm)

A - Height	B - Width	C - Depth
14 (356)	12 (305)	6 (152)



SECTION D PAGE 4 DATE 4/04 **CRANE**_®

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CONTACTOR

Simplex - NEMA 1 For Indoor Use Only

Panels & Controls

The Simplex pump contactor control is supplied in a NEMA Type I general purpose indoor enclosure to prevent accidental contact with the enclosed equipment.

The enclosure if formed of 16 gauge deep drawn steel with baked on gray epoxy paint. The enclosure will contain a two or three pole, amperage rated magnetic contactor for pump control. A normally open auxiliary interlock switch, rated 10 amperes minimum, provides control use with one or two float switches or a single pressure switch. Contactor coil, float switches and other pilot devices operated at line voltage (with the exception of 230 volt controls).

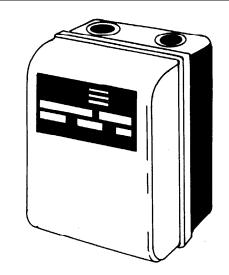
A terminal block is provided for customer connection of level switches, or other pilot controls, and/or a remote mounted alarm option. A toggle switch provides hand-off-automatic operation with spring return from the hand to off position to prevent damage to pump. An amber run light is mounted through the enclosure side to indicate pump run operation.

For 115 and 230 volt, 1 phase operation, up to 3 HP.

PART NO.	HP	VOLTS	PHASE
065557	Up to 3	115	1
065558	Up to 3	230	1

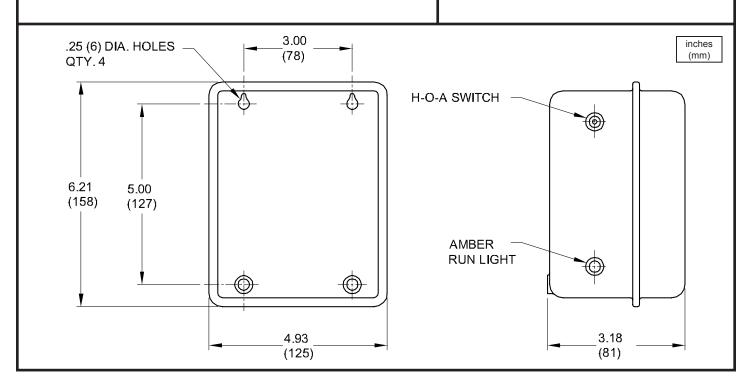
IMPORTANT!

- 1. Specify pump model and/or full load amps when ordering.
- 2. Circuit breakers NOT included
- 3. FOR INDOOR USE ONLY.



Series: Simplex P/N: 065557, 115 Volt

P/N: 065557, 115 Volt P/N: 065558, 230 Volt





PUMPS & SYSTEMS

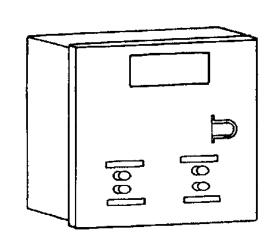
SECTION D PAGE 5 DATE 4/04

CONTACTOR

Duplex - NEMA 1



Panels & Controls



Series: Duplex - NEMA 1 1/3 HP - 3HP 115 & 230 Volt, 1 PH

FOR INDOOR USE ONLY.

The Duplex Contactors are recommended for systems requiring two (2) permanent split-phase capacitor (PSC) or shaded pole motor driven pumps with internal thermal protection.

Supplied in a NEMA 1, indoor mounting steel enclosure, the control contains two 1/3 to 3 horsepower rated contactor for single phase motor control. An alternator is supplied to provide standard duplex operation. The motor contactors are wired to a terminal block to provide control with 2 or 3 float switches, or a single pressure switch. Contactor coils, alternator coil, float switches and other pilot devices operate at line voltage. The hinged enclosure door mounts two hand-off-auto switches with spring return from the hand position to prevent pump damage. Amber lights, mounted above the switches, indicate pump operation.

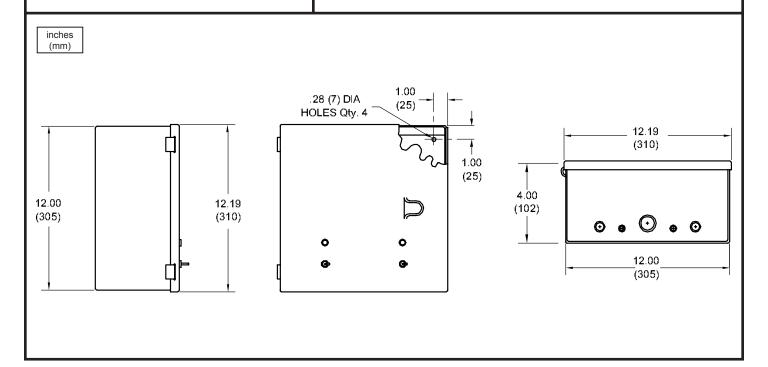
Terminals and terminal blocks are provided for all customer connections, motor leads, float switches and other pilot devices, and incoming line power.

The indoor NEMA 1 enclosure is finished in a gray enamel coating, inside and out, over phosphatized steel. Knock-outs are provided on the enclosure top and bottom for ease of installation. Mounting is provided through 4 holes through the rear of the enclosure.

PART NO.	HP	VOLTS	PHASE
082770	1/3 - 3	115	1
082771	1/3 - 3	230	1

IMPORTANT!

- 1. Specify pump model and/or full load amps when ordering.
- 2. Circuit breaker NOT included.



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Panels & Controls

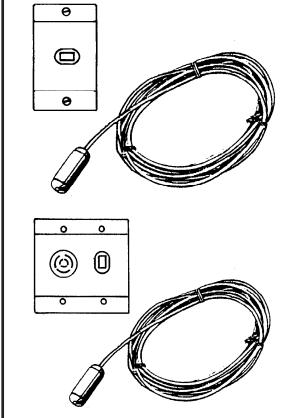
P/N: 061486 High Water Alarm includes stainless steel wall plate with red jewel light and one mercury level

control with 10ft. (3M) of 18/2 cord.

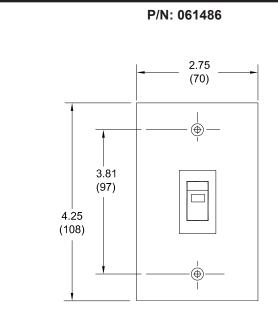
P/N: 061487 High Water Alarm (Solid State) includes stainless

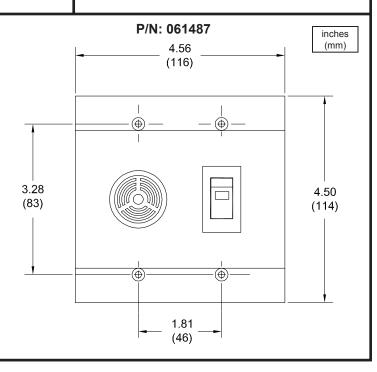
steel wall plate, audible and visual alarm with silencer button and one mercury level control with

10ft. (3M) of 18/2 cord.



P/N: 061486 & 061487







PUMPS & SYSTEMS

SECTION D **PAGE** 4/04 DATE

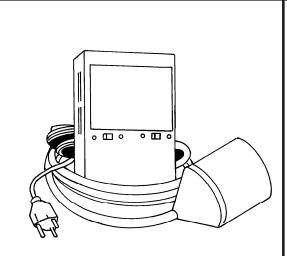
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

ALARM

NEMA 1 - Indoor 120 Volt



Panels & Controls



P/N: 100960





VOLTAGE.....Primary 120V, 50/60Hz with 6 ft. line cord.

WATTS4.8 Watts Alarm Condition.

ENCLOSURE......NEMA 1 metal enclosure with knock outs.

ALARM SWITCH CONNECTION TERMINAL:

Low voltage class 2 wiring.

ALARM HORN..... 86db (A) at 10ft.(3M)

ALARM FLOAT..... High impact resistant PVC Housing,

Mercury tilt switch hermetically sealed with 15ft. (5m) 18/2 SJOW water resistant

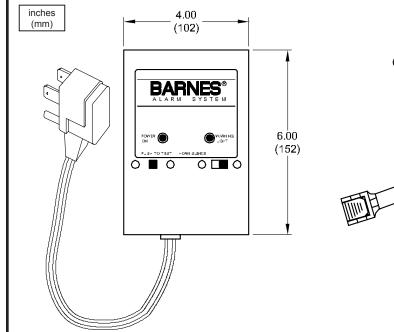
neoprene (CPE) cord with pipe clamp.

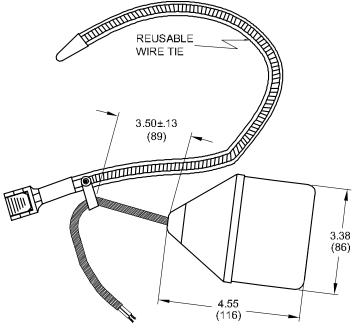
TEMPERATURE RATING:

140°F (60°C)

This Alarm System includes a NEMA 1 panel with red warning light, a green "power on" light, a push-to-test alarm button and a horn silence switch.

The liquid level alarm system is designed specifically for lift pump chambers and sump pump basins. The float switch is lowered into the tank and secured at the desired alarm level. When the liquid rises (high level alarm) or lowers (low level alarm), the float tips and activates a loud horn on the alarm panel. In addition, a red, solid-state warning light is activated. The horn can be turned off, but the warning light will remain on until the condition is remedied. An added green "power on" light assures that there is power to the alarm panel.





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Water-tight, Indoor/Outdoor 120 Volt

Panels & Controls

VOLTAGE.....Primary 120V, 50/60Hz

ENCLOSURE......Water-tight, Thermoplastic, Type 3R

ALARM HORN......85db (A) at 10ft.(3m) **ALARM LIGHT**......Top Mounted type 4X

ALARM FLOAT.....High impact resistant PVC Housing,
Mercury tilt switch hermetically sealed

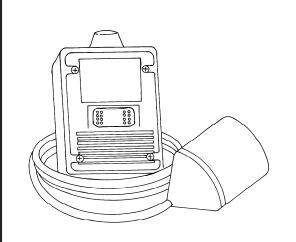
with 15ft. (5m) 18/2 SJOW water resistant neoprene (CPE) cord with pipe clamp.

TEMPERATURE RATING:

140°F (60°C)

This Alarm System includes a water-tight panel with a top mounted Alarm light, a test/silence switch, a power on light and a 85db (A) alarm horn with a mercury float.

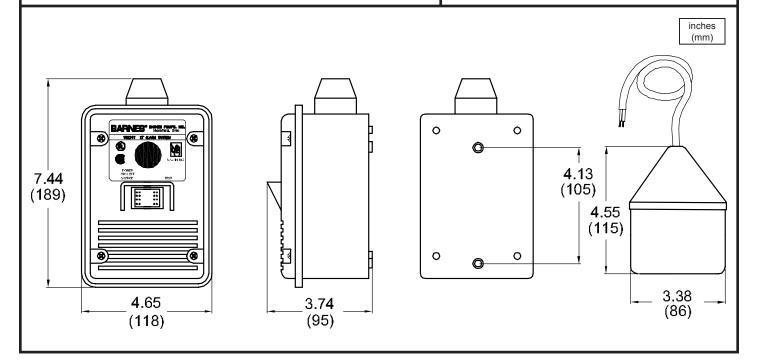
The liquid level alarm system is designed specifically for lift pump chambers and sump pump basins. The float switch is lowered into the tank and secured at the desired alarm level. When the liquid rises (high level alarm) or lowers (low level alarm), the float tips and activates the horn and light on the alarm panel.



P/N: 102247









PUMPS & SYSTEMS

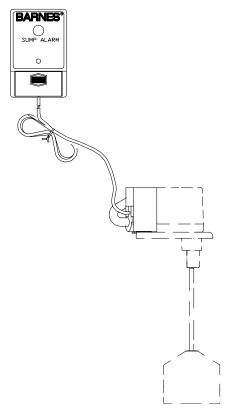
SECTION D PAGE 9 DATE 4/04

ALARM

Battery Operated, 9 Volt For Indoor Sump Basin



Panels & Controls



(114mm x 163mm x 97mm)

ALARM HORN..... 82db (A) at 10ft.(3M)

ALARM FLOAT..... Polypropylene

SENSOR HOUSING..... 2" x 1.4" x 1.5" (51mm x 36mm x 38mm)

High Impact, PVC Housing

CORD......8 Ft. (2.4m) 2 Conductor, PVC Jacketed

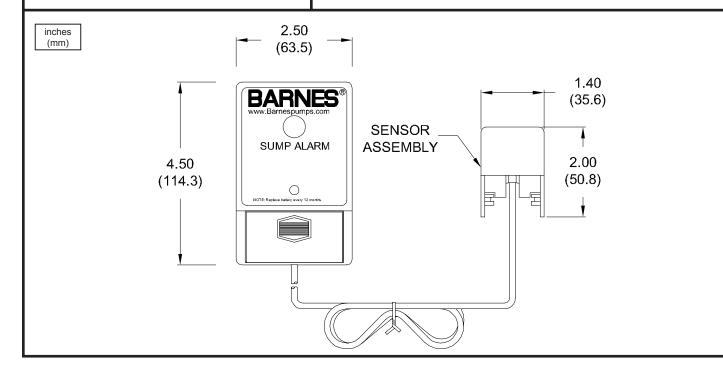
TEMPERATURE RATING:

125°F (52°C)

This basin sump alarm is a battery operated audio alarm that is designed to be used in sump basins. It uses a float actuated sensor that mounts to the pump discharge pipe or clamps on a standard vertical float (shown, but not supplied with alarm).

If a potentially threatening liquid level condition occurs, the alarm horn will sound warning of the high water condition. The alarm will remain on until the condition is remedied or the battery is disconnected. The expected life of a fresh alkaline battery during a continuous alarm condition is approximately 72 hours.

P/N: 112915B



SECTION D PAGE 10 DATE 4/04





LEVEL CONTROL

Pipe Mounted Mercury, Pilot Duty

Panels & Controls

CORD: *Material*18-2 SJOW, 41 Strand x #34, 90°C

HOUSING: *Material* Polypropylene

Color.....Normally Open - Blue Normally Closed - Red

CLAMP..... Adustable 1" (25mm) -3" (76mm)

Stainless Steel with Polypropylene Saddle

(Models 073613, 073615 and 073617)

TEMPERATURE RATING......140°F (60°C)

SWITCHMercury, Narrow Angle , Horizontal

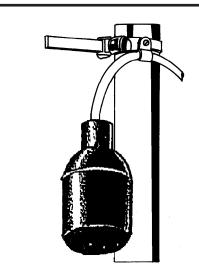
SWITCH RATING......4.5A @ 115VAC RES

2.25A @ 230VAC RES

The Mercury Level Controls are available in pipe mounted configuration with 25 (8m) to 200 feet (61m) of cord on P/N's 073613 & 073615; P/N 073617 with 15 (5m) & 20 feet (6m). **STATE CORD LENGTH AT TIME OF ORDERING.**

They are pilot duty devices which control the function of motor load devices, such as contactors, motor starters, and power relays, to automatically cycle a pump or pumps. They can also be used for alarm signaling devices. Two Mercury Level Controls for a one pump operation; three for a two pump operation. If an alarm device is used, add another Level Control.

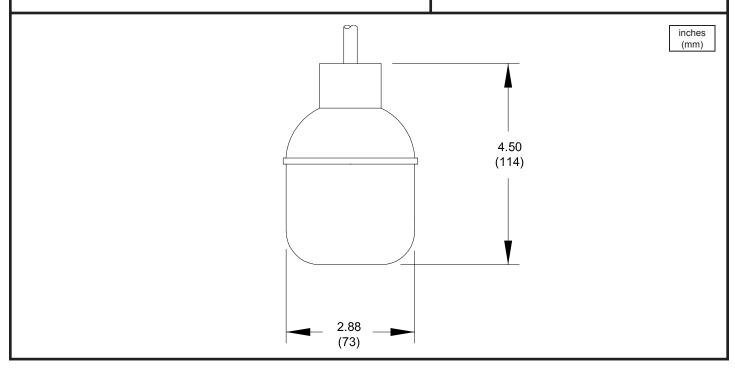
CONTROL NUMBER	CORD LENGHT	TYPE INSTALLATION	CONTACTS
073613	25 ft. (8m) to 200 ft. (61m)	Pipe Mounted	Open
073615	25 ft. (8m) to 200 ft. (61m)	Pipe Mounted	Closed
073617	15 ft. (5m) to 20 ft. (6m)	Pipe Mounted	Open



P/N's: 073613 073615 073617









PUMPS & SYSTEMS

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LEVEL CONTROLS

Suspended, Mercury Pilot Duty



Panels & Controls



P/N's: 073612 073614 073616



CORD: *Material*18-2 SJOW, 41 Strand x #34, 90°C

Size29 (7.4mm) Dia. **HOUSING:** MaterialPolypropylene

Color.....Normally Open - Blue

Normally Closed - Red

WEIGHT Suspended, 2.25" (57mm) Sph. lead

weight with adjustable stainless steel

fittings (Models 073612, 073614 & 073616)

TEMPERATURE RATING......140°F (60°C)

SWITCHMercury, Narrow Angle , Horizontal

SWITCH RATING......4.5A @ 115VAC RES

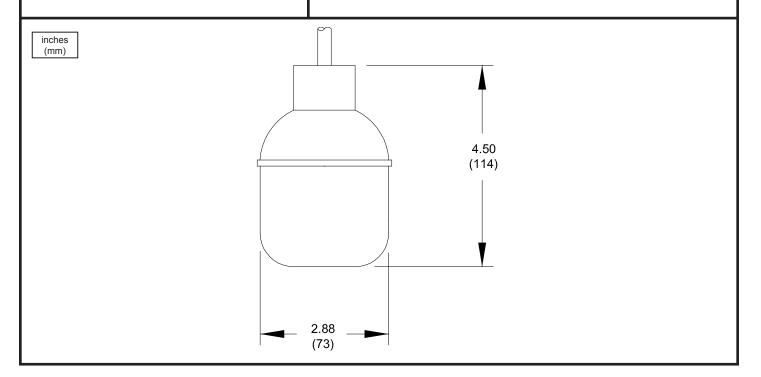
2.25A @ 230VAC RES

The Mercury Level Controls are available in suspended configuration with 25 (8m) to 200 feet (61m) of cord on P/N's 073612 & 073614; P/N 073616* with 15 (5m). *(use 073612 for lengths longer than 15 feet).

STATE CORD LENGTH AT TIME OF ORDERING.

They are pilot duty devices which control the function of motor load devices, such as contactors, motor starters, and power relays, to automatically cycle a pump or pumps. They can also be used for alarm signaling devices. Two Mercury Level Controls for a one pump operation; three for a two pump operation. If an alarm device is used, add another Level Control.

CONTROL NUMBER	CORD LENGHT	TYPE INSTALLATION	CONTACTS
073612	25 ft. (8m) to 200 ft. (61m)	Suspended	Open
073614	25 ft. (8m) to 200 ft. (61m)	Suspended	Closed
073616	*15 ft. (5m)	Suspended	Open



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Pipe Mounted, Mercury Pilot Duty

Panels & Controls

CORD......15ft. (5m) 18/2 SJOW water resistant

neoprene (CPE) cord

FLOAT.....High impact resistant PVC Housing,

Mercury tilt switch hermetically sealed.

TEMPERATURE RATING:

140°F (60°C)

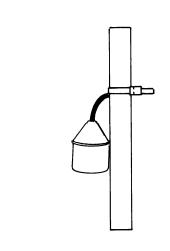
ELECTRICAL.....5 amp 120 VAC or 230 VAC

The float switch is available for normally open (high level) applications. The float includes a pipe clamp to be attached to discharge piping.

The float switch is designed to be used as a pilot duty, narrow angle sensing device to monitor liquid levels in sewage and water systems, also to active pump control panels, alarms solenoids, and relays. This switch is not sensitive to rotation and is suitable for use with intrinsically safe circuits.

Normally Open - The float switch turns on (closes) when the float tips slightly above the horizontal position signaling a high level, and turns off (opens) when the float drops slightly below the horizontal position.

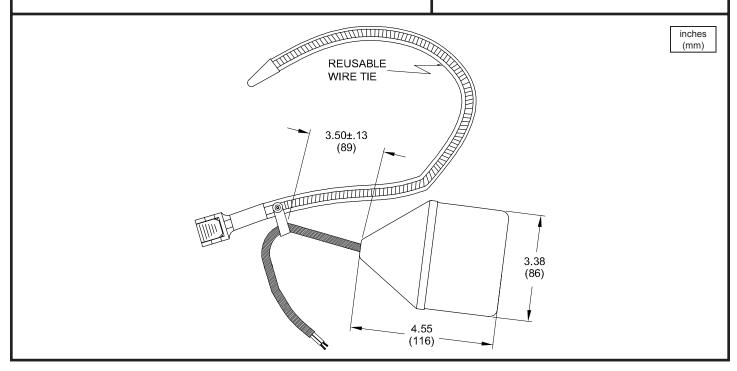
PART NO.	CORD LENGTH	INSTALLATION	CONTACTS
102697	15 ft. (4.6)	Pipe Mounted	Open



P/N: 102697









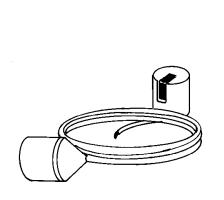
PUMPS & SYSTEMS

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Suspended, Mercury Pilot Duty



Panels & Controls



P/N: 100958 100959





CORD 15ft. (5M) 18/2 SJOW water resistant

neoprene (CPE) cord

FLOAT......High impact resistant PVC Housing,

Mercury tilt switch hermetically sealed.

CABLE WEIGHT..... 1lb., 12oz., 2.8" (71.1) Dia x 3.3" (83.8) Long

high impact resistant, PVC housing.

TEMPERATURE RATING:

140°F (60°C)

ELECTRICAL.....5 amp 120 VAC or 230 VAC

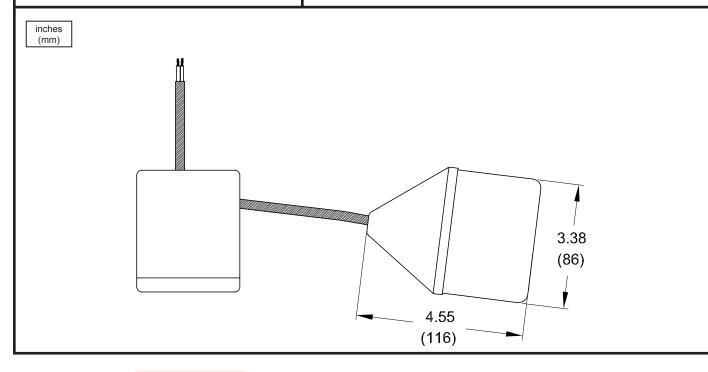
The float switch design is available for normally open (high level) applications or normally closed (low level) applications. The float includes an internal weight or a cable weight for suspended application.

The float switch is designed to be used as a pilot duty, narrow angle sensing device to monitor liquid levels in sewage and water systems, also to active pump control panels, alarms solenoids, and relays. This switch is not sensitive to rotation and is suitable for use with intrinsically safe circuits.

Normally Open - The float switch turns on (closes) when the float tips slightly above the horizontal position signaling a high level, and turns off (opens) when the float drops slightly below the horizontal position.

Normally Closed - The float switch turns on (closes) when the float drops slightly below the horizontal position signaling a low level, and turns off (opens) when the float tips slightly above the horizontal position.

PART NO.	CORD LENGTH	INSTALLATION	CONTACTS
100958	15 ft. (4.6)	Suspended	Open
100959	15 ft. (4.6)	Suspended	Closed



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Pipe Mounted, Mercury Wide Angle, w/Piggy-Back Plug

Panels & Controls

CORD 16/2 SJOW water resistant neoprene (CPE)

cord with Piggy-Back plug.

FLOAT......High impact resistant PVC Housing, Mercury

tilt switch hermetically sealed.

TEMPERATURE RATING:

140°F (60°C)

ELECTRICAL: 120VAC.. 13 amps running, 40 amps starting,

up to 1/2HP

230VAC.. 8 amps running, 20 amps starting,

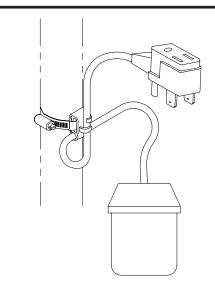
up to 1HP.

The float switch design is available for normally open (high level) applications or normally closed (low level) applications. The float includes a pipe clamp to be attached to discharge piping. The float switch provides automatic pump operation when directly controlling smaller pumps in water and sewage applications. Although this switch is not sensitive to rotation, it is affected by turbulence and should be mounted in a non-turbulent location.

PART NO.	CORD LENGTH	INSTALLATION	CONTACTS
100950	15 ft. (5m)	Pipe Mounted/120V	Open
100951	15 ft. (5m)	Pipe Mounted/230V	Open
100952	10 ft. (3m)	Pipe Mounted/120V	Closed

IMPORTANT!

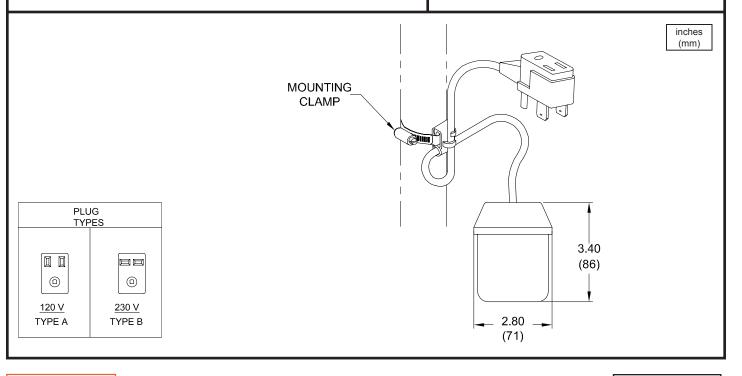
- 1. Not recommended for use with motor contactors or relays
- 2. Not recommended for use in intrinsically safe applications
- 3. This switch MUST be used with pumps that provide integral thermal overload protection



P/N's: 100950 100951 100952









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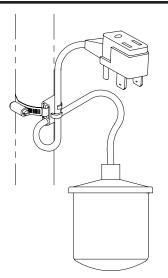
PUMPS & SYSTEMS

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Pipe Mounted, Mercury, Wide Angle



Panels & Controls



P/N's: 100953 100954 100955*

101231*





100953 & 100954.

FLOAT......High impact resistant PVC Housing, Mercury.

TEMPERATURE RATING..... 140°F (60°C)

ELECTRICAL:

120VAC 15 amps running, 55 amps starting,

up to 1HP

230VAC: 12 amps running, 35 amps starting,

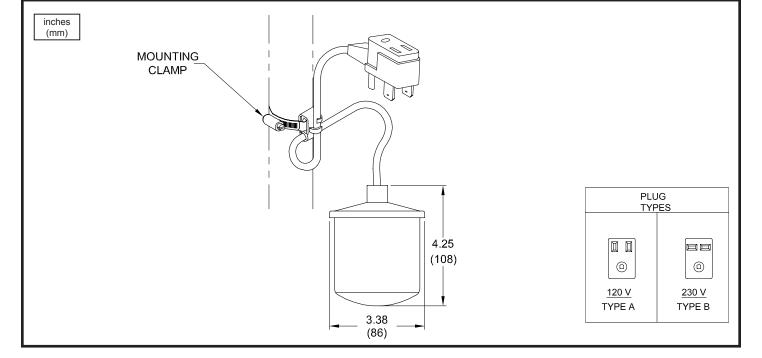
up to 2HP.

The float switch design is available for normally open (high level) applications or normally closed (low level) applications. The float includes a pipe clamp to be attached to discharge piping. The float switch provides automatic pump operation when controlling lift pumps, solenoids, relays and liquid level alarms. It can also be used with battery (DC) powered applications.

PART NO.	CORD LENGTH		
100953	15 ft. (5m)	Pipe Mounted - 120V	Open
100954	15 ft. (5m)	Pipe Mounted - 230V	Open
100955*	15 ft. (5m)	Pipe Mounted - 120/230V	Open
101231*	15 ft. (5m)	Pipe Mounted - 120/230V	Closed

IMPORTANT!

- This switch MUST be used with pumps that provide integral thermal overload protection
- 2. Units **WITHOUT** plugs may be used in either 120V or 230V applications when within amp ratings.
- (*) Less Plug



SECTION D PAGE 16 DATE 4/04 CRANE

PUMPS & SYSTEMS



Pipe Mounted, Mercury, Wide Angle High Temperature, w/Piggy-Back Plug

Panels & Controls

CORD: Material 16-2 SJOW, 65 Strand x #34, 60°C

Size32 (8mm) Dia. x (See Chart for Length)

HOUSING: MaterialPolypropylene

Color.....Normally Open - Blue

PLUG...... 115V Molded Male & Female

(Piggy-Back) w/Ground (*Lengths

over 50ft. (15m) DO NOT Include Plug).

CLAMP..... Stainless Steel with Polypropylene Saddle, Adjustable, 1" (25) to 3"(76).

TEMPERATURE RATING...... 200°F (93°C)

SWITCH Mercury, Wide Angle, 120° SWITCH RATINGS 13A. @ 115VAC. Continuous

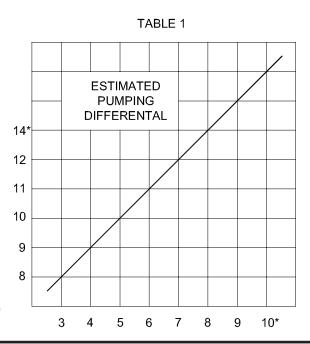
Current Inrush NOT to Exceed 22A.

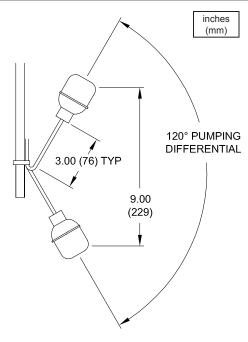
The High Temperature Wide Angle Mercury Level Control is a direct acting, in-line control system for automatically controlling 1/2 HP and smaller pump motors. The unit has a piggy-back plug attached to the cord, allowing the user to plug the pump plug directly into it, and then plug the entire unit into a standard grounded outlet. The Wide Angle Mercury Level Control is furnished with an adjustable strap for mounting to the pump discharge pipe. Standard units are preset at the factory for a nine inch pump down range, but can easily be adjusted to various pump down cycles by shortening or lengthening the cord length at the pivot point. The Level Control is also omni-directional: the pumping differential is maintained in any horizontal plane. STATE CORD LENGTH AT TIME OF ORDERING.

CONTROL	CORD	TYPE	CONTACTS
NUMBER	LENGHT	INSTALLATION	
085713	15 ft. (5m) to 100 ft. (31m)	Pipe Mounted	Open



P/N: 085713





(*) Maximum drawdown differential will vary from 13" (330mm) to 15" (381mm) at this point depending on temperature of liquid being pumped.

CRANE

A Crane Co. Company

PUMPS & SYSTEMS

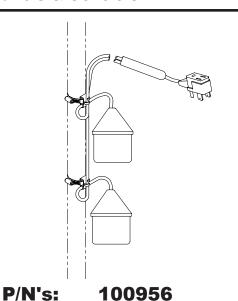
SECTION D PAGE 17 4/04 DATE

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Double Float, Pipe Mounted, Mercury, w/Piggy-Back Plug



Panels & Controls



100957

TEMPERATURE RATING:

140°F (60°C)

ELECTRICAL:

120VAC15 amps running, 55 amps starting,

up to 1HP

230VAC 12 amps running, 35 amps starting,

up to 2HP.

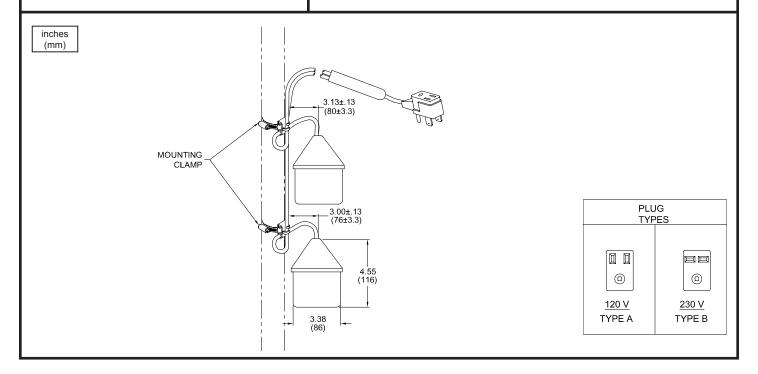
The two floats and two cords are molded into one piggy-back plug. The floats includes two pipe clamps to be attached to discharge piping. The float switch provides direct automatic pump operation in sewage and water systems. It lends itself well in applications that require a very accurate pumping range from 1 inch (25mm) to 48 inches (1219mm). This float assembly also works well in turbulent applications because of the patented holding relay circuitry. This float assembly can replace the need for a small control panel by directly switching pumps up to 2HP, 230Volt.

PART NO.	CORD LENGTH	INSTALLATION	CONTACTS
100956	15 ft. (5m)	Pipe Mounted - 120 V	Open
100957	15 ft. (5m)	Pipe Mounted - 230 V	Open



IMPORTANT!

 This switch MUST be used with pumps that provide integral thermal overload protection



SECTION D PAGE 18 DATE 4/04





Suspended, Mechanical, Pilot Duty

Panels & Controls

CORD: *Material* 16-2 SJOW, 65 Strand x #34, 90°C

Size32 (8mm) Dia. x (See Chart for Lenght)

HOUSING: *Material* Polypropylene

Color..... Normally Open - Blue

WEIGHT Suspended, 2.25" (57mm) Sph. lead

weight with Adjustable stainless steel fittings

TEMPERATURE RATING..... 140°F (60°C) SWITCH Snap Action

SWITCH RATING...... 13 Amps @ 115 Volts AC

13 Amps @ 230 Volts AC

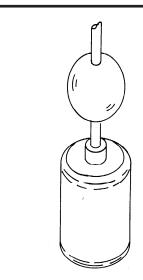
The Level Controls are available in suspended configuration with 15 (5M) to 200 feet (61M) of cable.

STATE CORD LENGTH AT TIME OF ORDERING.

They are pilot duty devices which control the function of motor load devices, such as contactors, motor starters, and power relays, to automatically cycle a pump or pumps. They can also be used for alarm signaling devices. Two Level Controls for a one pump operation; three for a two pump operation. If an alarm device is used, add another Level Control.

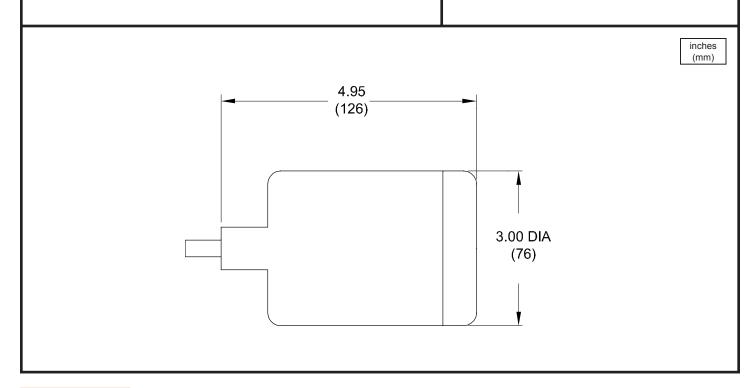
The Mechanical level control is a direct acting switch, it uses a metal cylinder sliding back and forth in a tube to actuate a snap-action switch.

PART	CORD	TYPE	CONTACTS
NUMBER	LENGHT	INSTALLATION	
085806	15 ft. (5m) to 200 ft. (61m)	Suspended	Open



P/N: 085806







A Crane Co. Company

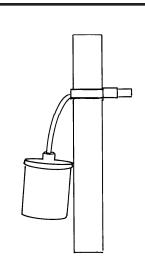
PUMPS & SYSTEMS

SECTION D PAGE 19 DATE 4/04

Pipe Mounted, Mechanical Wide Angle



Panels & Controls



P/N: 101637 108876





140°F (60°C)

ELECTRICAL:

120VAC15 amps, Locked rotor amps 85,

up to 3/4HP

230VAC15 amps, Locked rotor amps 85,

up to 2HP.

This float switch is available for normally closed (high level) applications. The float includes a mounting strap to be attached to discharge piping. The float switch provides automatic control of pumps in water or sewage applications, and is capable of directly controlling pumps of up to 3/4 HP 120 volts and 2 HP 230 volts. This heavy duty switch can be used in both calm and turbulent conditions.

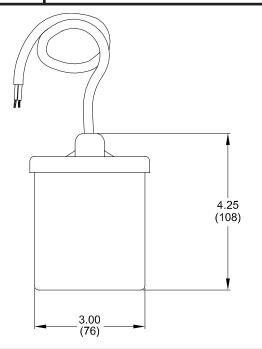
PART NUMBER	CORD LENGTH	INSTALLATION	CONTACTS
101637	15 ft. (5m)	Pipe Mounted - 120/230 V	Closed
108876	15 ft. (5m)	Pipe Mounted - 120/230 V	Open

IMPORTANT!

 This switch MUST be used with pumps that provide integral thermal overload protection

Tested per UL 508 Industrial Control Equipment.

inches (mm)



SECTION D PAGE 20 DATE 4/04





Pipe Mounted, Mechanical, Wide Angle w/Piggy-Back Plug

Panels & Controls

TEMPERATURE RATING 140°F (60°C)

ELECTRICAL:

120VAC 13 amps, Locked rotor amps 85, 1/2 HP or less. **230VAC** 13 amps, Locked rotor amps 85, 1HP or less.

This float switch is available for normally open applications. The float includes a mounting strap to be attached to discharge piping. The float switch provides automatic control of pumps in water or sewage applications, and is capable of directly controlling pumps of up to 1/2 HP at 120 volts and up to 1HP at 230 volts. This heavy duty switch can be used in both calm and turbulent conditions.

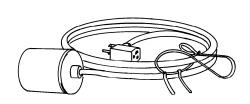
PART NUMBER	CORD LENGTH	INSTALLATION	CONTACTS
101758	15 ft. (5m)	Pipe Mounted - 120V	Open
101758XA	20 ft. (6m)	Pipe Mounted - 120V	Open
101758XC	30 ft. (9m)	Pipe Mounted - 120V	Open
101758XF	50 ft. (15m)	Pipe Mounted - 120V	Open
102262	15 ft. (5m)	Pipe Mounted - 230V	Open
102262XA	20 ft. (6m)	Pipe Mounted - 230V	Open
102262XC	30 ft. (9m)	Pipe Mounted - 230V	Open
102262XF	50 ft. (15m)	Pipe Mounted - 230V	Open
105634*	10 ft. (3m)	Pipe Mounted - 115/230V	Open
106929	10 ft. (3m)	Pipe Mounted - 115/230V	Open

IMPORTANT!

 This switch MUST be used with pumps that provide integral thermal overload protection

Tested per UL 508 Industrial Control Equipment

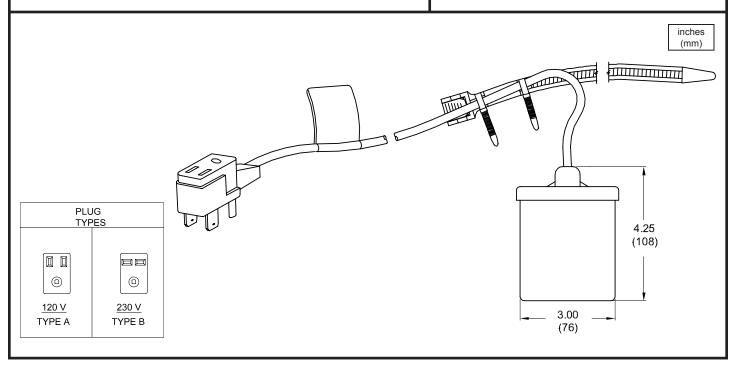
(*) DOES NOT HAVE A PLUG.



P/N's: 101758 102262 105634* 106929









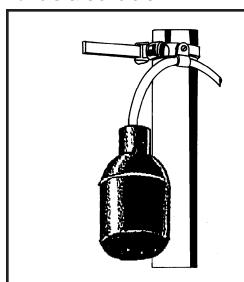
PUMPS & SYSTEMS

SECTION D PAGE 21 DATE 4/04

Pipe Mounted, Mechanical, Pilot Duty



Panels & Controls



P/N: 102228





TEMPERATURE RATING:

140°F (60°C) **ELECTRICAL**......5 amp, 125/250 VAC **WATER DEPTH**...........30 feet (9M) Max., 13 psi.

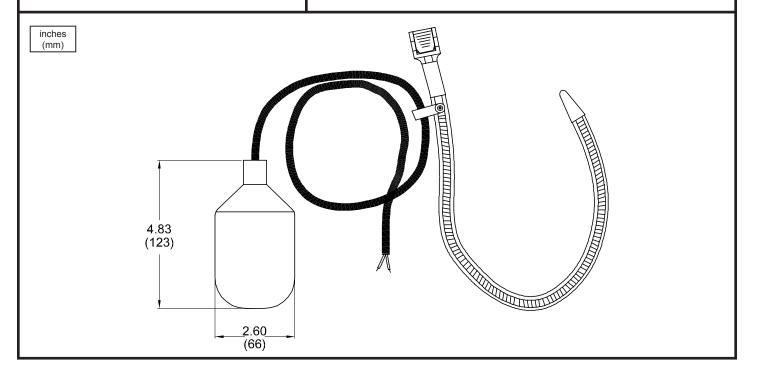
This float switch is a pilot duty, narrow angle sensing device used to activate pump control panels, alarms, solenoids, and relays in sewage and non-potable water applications. It is not sensitive to rotation.

The float switch turns on (closes) when the float tips slightly above horizontal signaling a high level, and turns off (opens) when the float drops slightly below horizontal. Control differential of 1.5" (38mm) above or below horizontal.

PART NUMBER	CORD LENGTH	INSTALLATION	CONTACTS
102228	15 ft. (5m)	Pipe Mounted - 120/230 V	Open

IMPORTANT!

- 1. This switch is not recommended for controlling, electrical loads less than 100 milliamps, 12 VAC and/or non-arcing electric loads.
- 2. UL listed for use in non-potable water and sewage.



SECTION D PAGE 22 DATE 4/04 CRANE

A Crane Co. Company

PUMPS & SYSTEMS



Vertical Float, 120 & 230 Volt, w/Piggy-Back Plug

Panels & Controls

CORD: Material 16-2 SJOW Water-resistant.

Plug

SWITCH & HOUSING...... Impact resistant, PVC

FLOAT STOP Neoprene

LIFT ROD Injection Molded Acetal Plastic.

 MOUNTING BRACKET
 PVC

 CLAMP
 Plastic

 TEMPERATURE RATING:
 125°F (52°C)

 SWITCH
 Snap Acon

60 AMPS Max. Starting Current

1/2HP @ 115 Volts AC, 1HP @ 230 Volts AC

PUMPING RANGE:.... Adjustable, 3/4 (19mm) to 6-1/2 (165mm).

The Vertical Level Control is designed to operate in applications with limited space and is available in pump down model only. The Vertical Level Control is not sensitive to turbulence. The plug may be removed for direct wiring and may be used in either 120V or 230V applications within specified amp range.

PART NUMBER	VOLTS	CORD LENGTH	INSTALLATION
093474	120	15 ft. (5m)	Pipe Mounted
093475	230	15 ft. (5m)	Pipe Mounted
113647*	120	10 ft. (3m)	SP Pump Bracket Mount
113647A*	120	20 ft. (6m)	SP Pump Bracket Mount



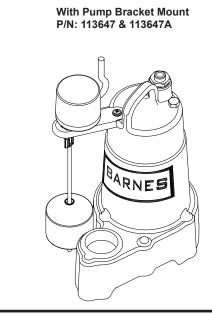
P/N's:

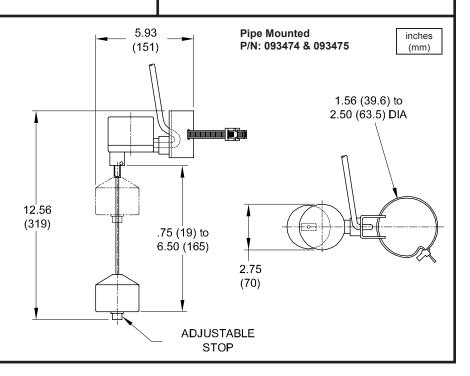


093474 093475 113647

IMPORTANT!

- This Level Control must be used only with pumps equipped with integral thermal overload protection.
- (*) Includes SP Pump mounting bracket.







PUMPS & SYSTEMS

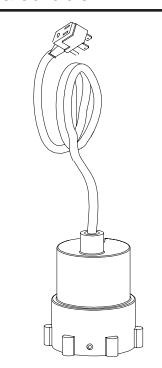
SECTION D PAGE 23 DATE 4/04

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Diaphragm



Panels & Controls



P/N: 116670 115360A



CORD: Material....... 16-2 SJTW, Nylon with .12 Dia. Vent

PLUG...... Male & Female (Piggy-Back), with

Vent and Ground.

HOUSING...... Black, Molded Polypropylene

SWITCH RETAINER Polypropylene

CLAMP..... 1. Clip, Stainless Steel (Pump Mtg.)

2. Bracket, Stainless Steel (Pump Mtg.)

3. Adjustable Clamp, 1-3/4 (45mm) to 5" (127mm)(Pipe Mtg.)

HARDWARE Stainless Steel
SWITCH DIAPHRAGM Oil Resistant Buna-N

SWITCH Snap Action, Normally Open

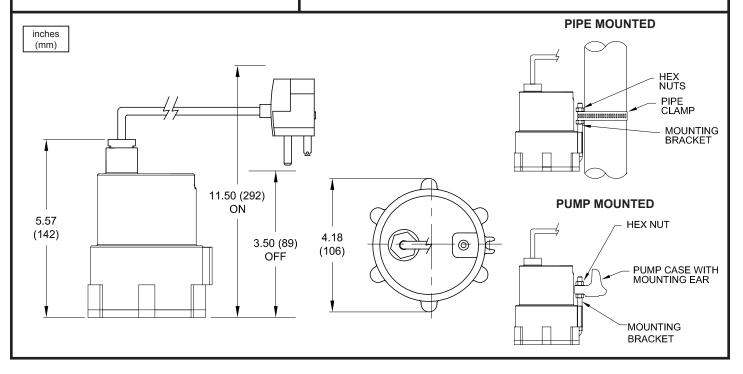
SWITCH RATING....... 10.5 Amp @ 120 Volt AC

Diaphragm Switches are Pressure operated that turn on at 11.50" (292.1mm) head (from bottom of housing) and off at 3.50" (88.9mm) head. For mounting on pumps with and without mounting ears and pipe mounted.

FOR USE ON:

Discharge pipe or pump mounted on units with FLA less than 10.5 @ 120 Volts AC

PART NUMBER	CORD LENGTH	WHERE USED
116670	15 FT. (4.6m)	BP314, SEV412, EHV412*
115360A	10 Ft. (3m)	SP Pump Series



SECTION D PAGE 24 DATE 7/04





Pipe Mounted. Mechanical, Wide Angle

Panels & Controls

CORD......14/2 SJOW, water resistant neoprene

(CPE) cable.

FLOAT.....High impact resistant PVC Housing,

Mechanical

TEMPERATURE RATING....120°F (50°C)

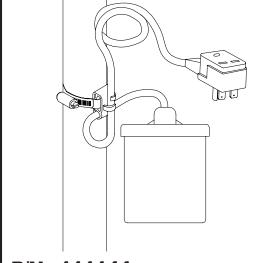
ELECTRICAL:

230VAC.....15 amps, Locked rotor amps 85,

up to 2HP.

This float switch is available for normally open applications. The float includes a mounting strap to be attached to discharge piping. The float switch provides automatic control of pumps in water or sewage applications, and is capable of directly controlling pumps of up to 2HP at 230 volts. This heavy duty switch can be used in both calm and turbulent conditions.

PART NO.	CORD LENGTH	INSTALLATION	CONTACTS
111144A	8 ft. 2.4m)	Pipe Mounted -230 V	Open
111144XA	20 ft. (6m)	Pipe Mounted -230 V	Open
111144XC	30 ft. (9m)	Pipe Mounted -230 V	Open
111144XF	50 ft. (15m)	Pipe Mounted -230 V	Open



P/N: 111144

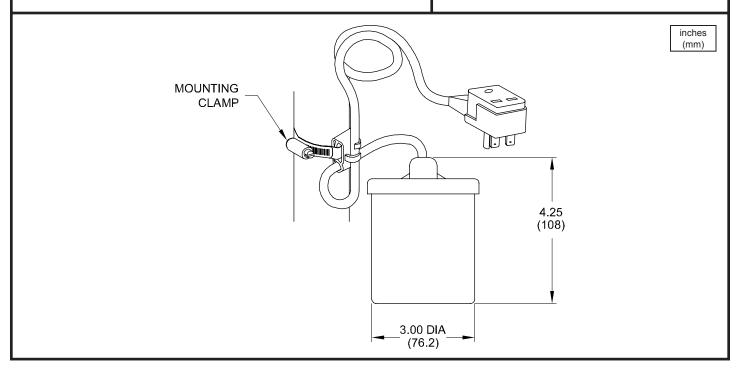
IMPORTANT!

1. This switch **MUST** be used with pumps that provide integral thermal overload protection

Tested per UL 508 Industrial Control Equipment









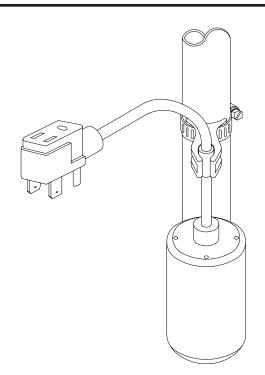
PUMPS & SYSTEMS

SECTION D PAGE 25 DATE 4/04

Mechanical, High Temperature, Wide Angle Pipe Mounted, 115 Volt with Piggy-Back Plug



Panels & Controls



P/N: 090269





CORD: *Material* 14-2 SJOW, 41 Strand x #30, 90°C Dry,

60°C Wet

Size37 (8mm) Dia. x (See Chart for Lenght)

HOUSING: Material Polypropylene

Color..... Normally Open - Black

CLAMP......Pipe Mounted, Stainless Steel with

Polypropylene Saddle, 1" (25) to 3" (76)

TEMPERATURE RATING..... 200°F (93°C)

SWITCH Mechanical, Snap Action

SWITCH RATING...... 15 Amps @ 115 Volts AC, 1 Phase

Level Control is available in Pipe Mounted Configuration with a 115 volt molded on Male and Female Piggy-Back Plug w/Ground on the 090269. Cable lengths are of 15 (5M), 25 (8M), 30 (9M) and 50 feet (15M).

The unit has a piggy-back plug attached to the cord, allowing the user to plug the pump plug directly into it, and then plug the entire unit into a 115 volt grounded outlet. The Wide Angle Level Control is furnished with an adjustable strap for mounting to the pump discharge pipe. Standard units are preset at the factory, but can easily be adjusted to various pump down cycles by shortening or lengthening the cord length at the pivot point.

The Mechanical level control is a direct acting switch, it uses a metal cylinder sliding back and forth in a tube to actuate a snap-action switch.

PART	CORD	TYPE	CONTACTS
NUMBER	LENGHT	INSTALLATION	
090269	15 ft. (5m), 25 (8m), 30 (9m) & 50 ft. (15m)	Pipe Mounted 115 Volt	Open

STATE CORD LENGTH AT TIME OF ORDERING.

4.95 (126)

SECTION D PAGE 26 DATE 10/05





POLYETHYLENE BASINS

18" Dia. x 30" Deep Structural Foam

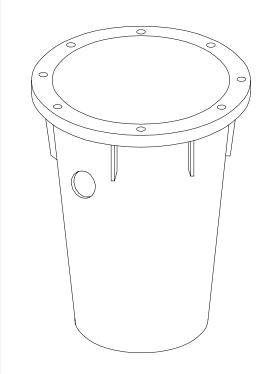
Basins & Accessories

Designed for retrofit and new construction applications. Manufactured with high quality polyethylene structural foam and tested to industry standard.

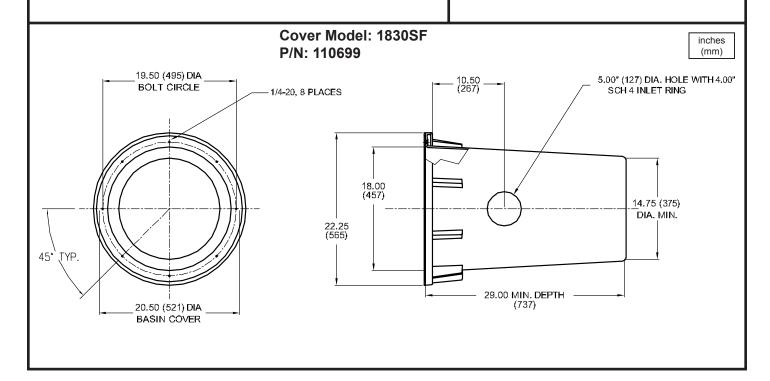
FEATURES:

- Basin constructed of durable, corrosion-resistant polyethylene structural foam.
- Polyethylene encapsulated threaded inserts for cover bolts.
- 5.00" Dia. hole for 4" sch. 40 Inlet pipe grommet (included).
- · Basin capacity, 30 US Gallons
- Wall Thickness 1/4".
- · Basin Weight: 16 lbs.

Cover P/N: 102227 supplied separately see pages 5 and 6.



Series: 1830SF P/N: 110699





PUMPS & SYSTEMS

SECTION E PAGE 1 DATE 10/05



Basins & Accessories		
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SECTION E PAGE 2 DATE 10/05





POLYETHYLENE BASIN

18" Dia. x 30" Deep IAPMO Approved

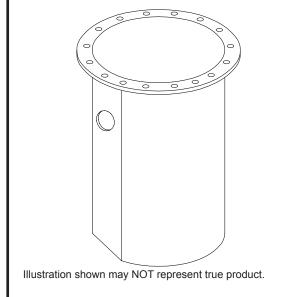
Basins & Accessories

This basin is designed for retrofit and new construction applications. Manufactured with high quality polyethylene resins and tested to industry standard. This basin is IAPMO approved.

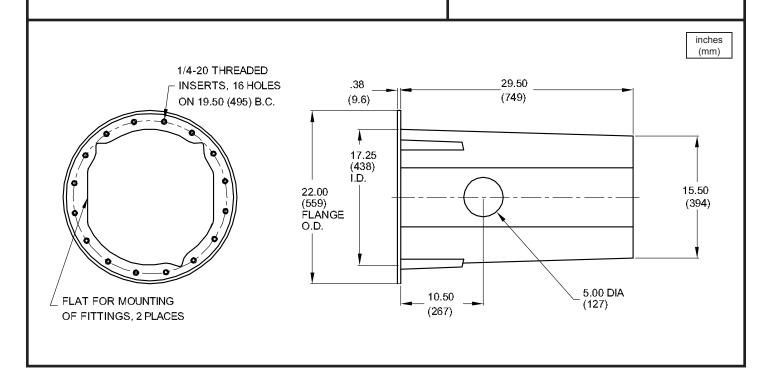
FEATURES:

- Basin constructed of durable, corrosion-resistant polyethylene.
- Polyethylene encapsulated threaded inserts for cover bolts.
- · Basin capacity, 26 US Gallons
- 5.00" Dia. hole for 4" Sch. 40 Inlet pipe grommet (incuded).
- · Basin weight: 10 lbs.

Cover P/N: 102221 supplied separately see pages 5 and 6.



Series: 1830IAPMO P/N: 102167





PUMPS & SYSTEMS

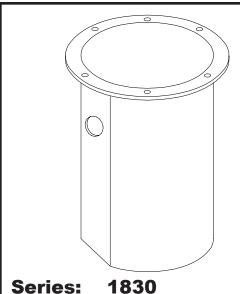
SECTION E PAGE 3 DATE 4/04

POLYETHYLENE BASIN

Various Sizes



Basins & Accessories



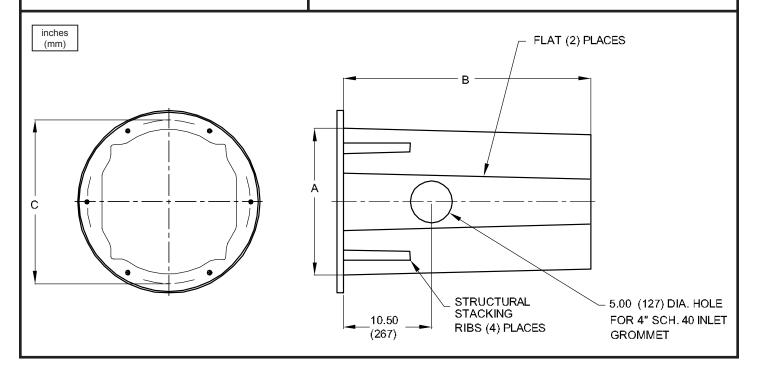
Series: 1

2436 3036 3636 These basins are designed for retrofit and new construction applications. Manufactured with high quality polyethylene resins and tested to industry standars.

FEATURES:

- Basin constructed of durable, corrosion-resistant polyethylene
- Polyethylene encapsulated threaded inserts for cover bolts
- 5.00" Dia. hole for 4" Sch. 40 Inlet pipe grommet (incuded)
- Wall Thickness 3/16"

PART NO.	MODEL NO.	AxB	C B.C.	No. of BOLT HOLES	CAPACITY US GALLONS	WEIGHT L.B.S.
076119	1830	18 x 30	19.5	4	26	10
100534	2436	24 x 36	20.5	6	65	26
102169	3036	30 x 36	32.5	6	103	45
102170	3636	36 x 36	38.5	6	154	55



SECTION E PAGE 4 DATE 4/04 CRANE

A Crane Co. Company



BASIN COVERS

Simplex Various Sizes and Material

Basins & Accessories

These covers are designed to be used with the 18", 24", 30" and 36" diameter basins. The 18SS, 18SSSV, 18SSIAPMO, 24SS, 30SS and 36SS covers are steel constructed while the 18PS is of polyethylene construction.

Each cover includes; gasket, hardware, cord seal, and grommets for 2" discharge and 2" vent, except for 18SSSV which has only 1 grommet for 2" discharge and 1 cord seal.

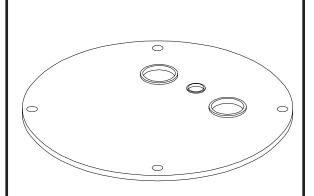


Illustration shown may NOT represent true product.

Series: 18SS

18SSIAPMO

24SS

MODEL	PART NO.	MATERIAL	A BASIN DIA	B RADIUS	C B.C.	D QTY. HOLES	E COVER O.D.	F	G	Н	WEIGHT
18ASSIAPMO	102221	STEEL	18 (457)	6.00 (152)	19.50 (495)	16	20.50 (521)	N/A	N/A	N/A	8 lbs
18SS	076120	STEEL	18 (457)	6.00 (152)	19.50 (495)	4	20.50 (521)	N/A	N/A	N/A	8 lbs
18PS	102227	POLY	18 (457)	6.00 (152)	19.63 (499)	4	21.13 (537)	N/A	N/A	N/A	5 lbs
24SS	100535	STEEL	24 (610)	8.00 (203)	24.50 (622)	6	24.50 (648)	N/A	N/A	N/A	16 lbs

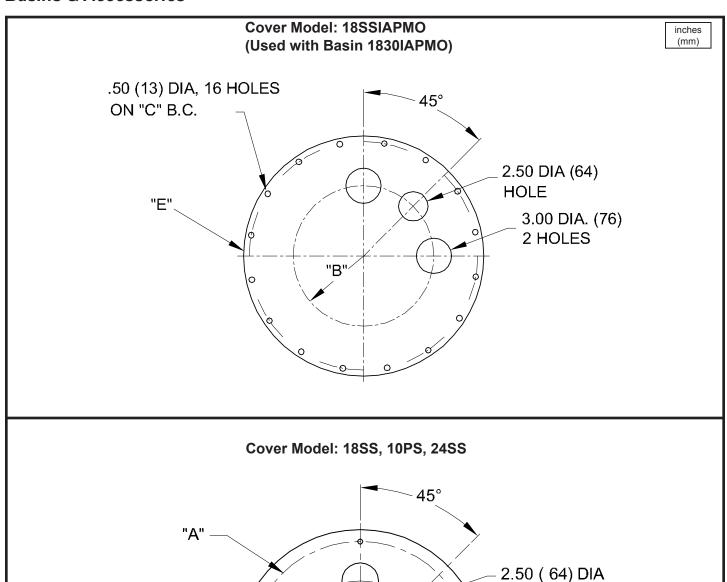
A Crane Co. Company

BASIN COVERS

Simplex Various Sizes and Material



Basins & Accessories







"E" -

"B"

HOLE

3.00 (76) DIA HOLE

TWO PLACES

.50 (13) DIA HOLES ON "C" DIA B.C "D" PLACES



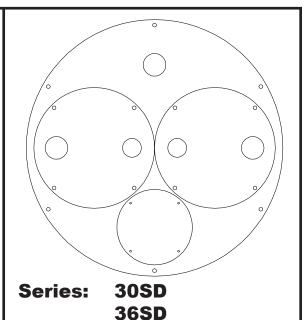
BASIN COVERS

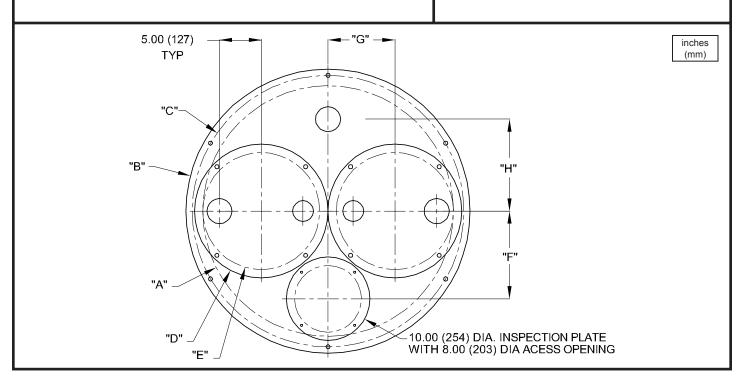
Duplex for 30" and 36" Dia. Basins

Basins & Accessories

These covers are designed to be used with the 30" and 36" diameter basins. The covers are steel constructed and include 3 pipe grommets for two 2" discharge, one 2" vent and 2 cord seals.

PART NO.	MODEL NO.	A BASIN DIA	B COVER O.D.	C B.C.	D ACCESS O.D.
102224	30SD	30.00 (762)	34.00 (864)	32.50 (826)	16.00 (406)
102226	36SD	36.00 (914)	40.00 (1016)	38.50 (978)	18.00 (457)
	E OPENING	F	G	Н	WEIGHT
14.00 (356)		10.50 (267)	8.00 (203)	11.00 (279)	95 lbs
16.00	16.00 (406)		10.00 (254)	14.00 (356)	100 lbs







PUMPS & SYSTEMS

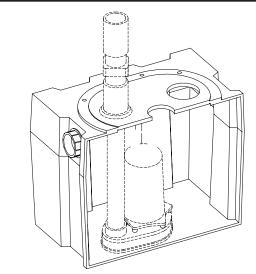
SECTION E PAGE 7 DATE 4/04

SPECIALTY BASIN

Laundry Tray Basin with Cover



Basins & Accessories



Series: LTB P/N: 102144

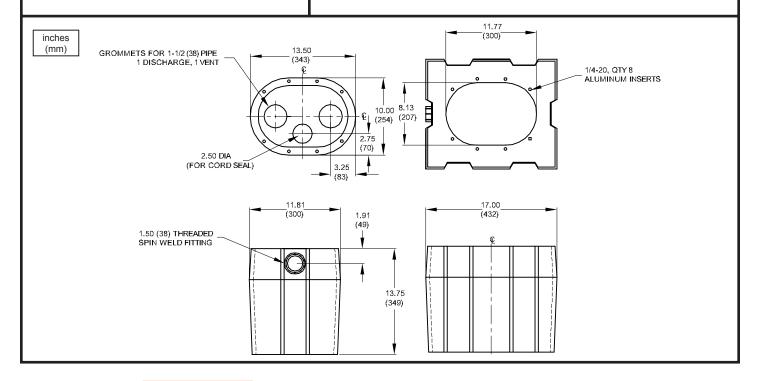
(Basin & Cover Only)

The Laundry Tray system is designed for above the floor "grey water" sump applications. Typical uses include laundry trays, wet bars, dehumidifiers, water softeners and air conditioner condensation. Manufactured with high guality polyethlene resins and tested to industry standards. Manufactured with high guality polyethylene resins and tested to industry standards. The basin comes complete with grommets for 1-1/2" discharge pipe and 1-1/2" vent, cord seal, stainless steel hardware and 1/8" gasket...

FEATURES:

- All components are durable, corrosion-resistant polyethylene.
- · Box and cover have a matching textured finish.
- 1-1/2" threaded "spin weld" insert for the inlet.
- Grommet discharge, vent and cord seals.
- Accommodates 1-1/2" discharge piping.
- Stainless steel bolts and encapsulated aluminum inserts
- Large 11 gallon capacity.
- 1/8" thick black closed cell foam gasket.
- Size: 12" x 16" x 14"
- Wall thickness 3/16"
- Weight; Basin 6 lbs, Cover 1 lbs.

For Pump and Basin See Section A page 21.



SECTION E PAGE 8 DATE 4/04





SPECIALTY BASIN

Basement Genie Basin (Basin Only)

Basins & Accessories

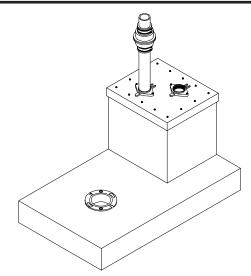
The Basement Genie Basin can be installed almost anywhere. It can accommodate a toilet, vanity, humidifier or shower. It is perfect for basements, family rooms, warehouses, factories and room additions. Fits almost anywhere and can be used with many toilet styles. The Basement Genie Basin can be installed free standing on any level surface (no need to destroy concrete floors) or the tank and all piping can be hidden behind a wall and under the floor.

Comes complete with basin, 2" PVC discharge pipe, 2" NPT vent flange, 2" straight discharge flange, 2" rubber gasket, cast iron closet flange, rubber cord grommet, 3/8" foam lid gasket, 2" check valve and hardware.

STANDARD COLOR...... White

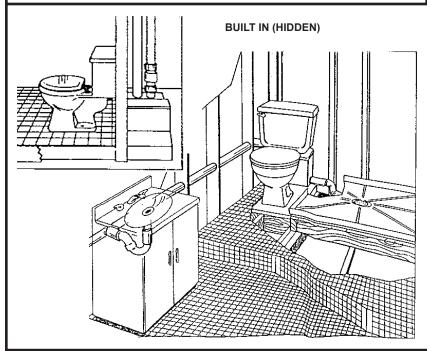
MATERIAL Polyethylene

WEIGHT 47 lbs.

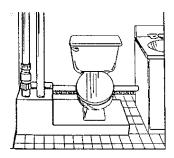


Series: BGB (Basin Only)

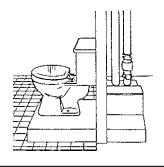
P/N: 102146



EXPOSED CORNER LOCATION



PARTIALLY EXPOSED ON TILE



CRANE

A Crane Co. Company

PUMPS & SYSTEMS

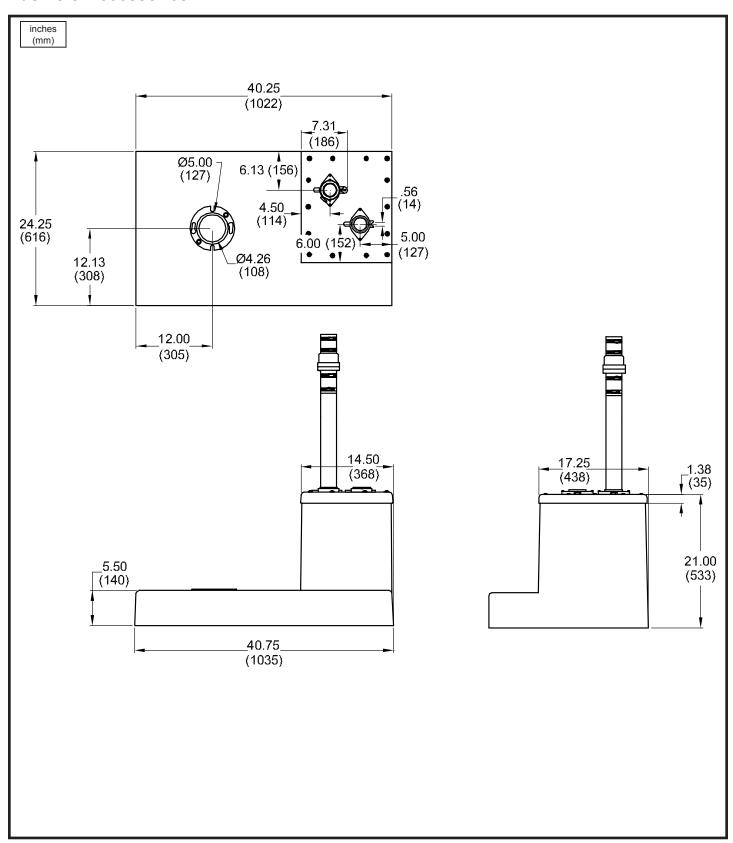
SECTION E PAGE 9 DATE 4/04

SPECIALTY BASIN

Basement Genie Basin (Basin Only)



Basins & Accessories





BREAK AWAY FITTING

1.25" & 2" with Check Valve Recommend 3 ft to 5 ft per sec. max.

Basins & Accessories

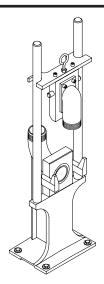
Each BAFEZCV break away fitting consists of a cast iron base elbow which is bolted to the floor of the wet well, lower guide rail supports, cast iron movable ball check valve and clean-out cap which is free to ride up and down the guide rails, A sealing plate with o-ring seat and galvanized guide plate and a stainless steel upper rail support. The guide rails (supplied separately) are attached to the base elbow at one end and to a stainless steel Upper Rail support, which is attached to the underside of the wet well cover at the other end. The guide rails serve only to guide, they carry none of the pump weight. 3/4" (19mm) schedule 40 pipe should be used for guide rails.

An optional intermediate guide pipe bracket should be used for depths of 13 feet (4M) or more. See page 16.The BAFEZCV's (with Check Valve), 1.25", and 2" are recommended for a velocity of 3 Ft. to 5 Ft. per sec. max. They can basically be used on any pump with the appropriate discharge size that does not exceed 200 lbs (91kg) in weight or operate above 150 ft. TDH (45 Meters).

Quantity of One (1) each for Simplex and Two (2) for Duplex.

Assemblies DO NOT include Pump, Discharge piping, Guide Rails, Lifting Chain, nor Gate Valve with Handle.

See page 16 for OPTIONAL Intermediate Supports.



Series: BAFEZCV-1.25x2 BAFEZCV-2x2

DESCRIPTION:

THE BREAK AWAY FITTING IS DESIGNED TO ALLOW THE SUBMERSIBLE PUMP TO BE INSTALLED OR REMOVED WITHOUT REQUIRING PERSONNEL TO ENTER THE WET WELL.



PUMPS & SYSTEMS

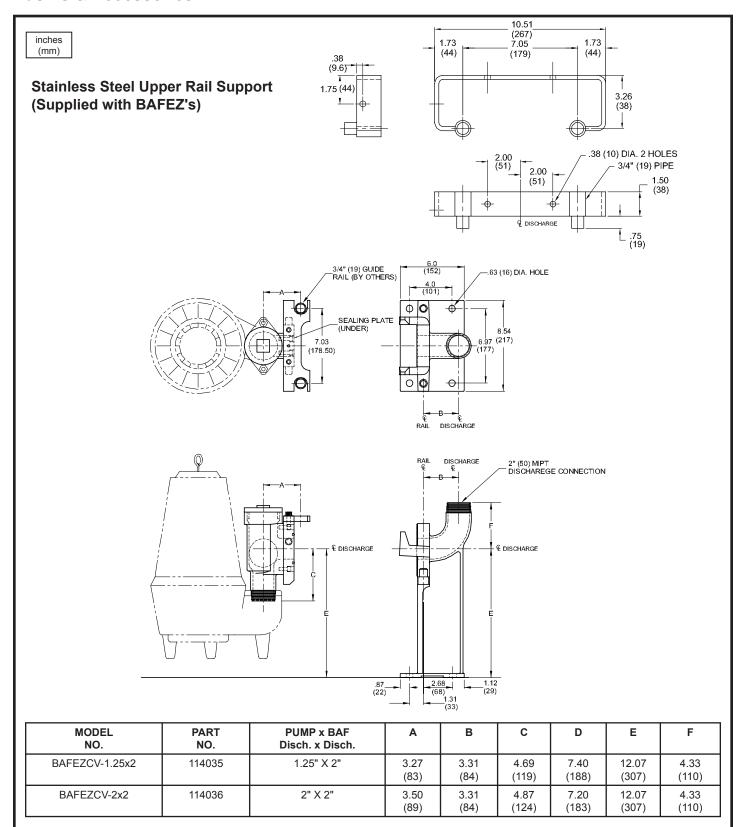
SECTION E PAGE 11 DATE 4/04

BREAK AWAY FITTING

1.25" & 2" with Check Valve Recommend 3 ft to 5 ft per sec. max.



Basins & Accessories



SECTION E PAGE 12 DATE 4/04





www.cranepumps.com

BREAK AWAY FITTING

1.25" thru 3" without Check Valve

Basins & Accessories

Each BAFEZ break away fitting consists of a cast iron base elbow which is bolted to the floor of the wet well, lower guide rail supports, cast iron movable elbow which is free to ride up and down the guide rails, A sealing plate with o-ring seat, galvanized guide plate and a stainless steel upper rail support. The guide rails (supplied separately) are attached to the base elbow at one end and to a stainless steel Upper Rail support, which is attached to the underside of the wet well cover at the other end. The guide rails serve only to guide, they carry none of the pump weight. 3/4" (19mm) schedule 40 pipe should be used for guide rails.

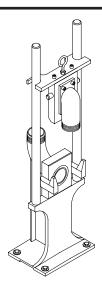
An optional intermediate guide pipe bracket should be used for depths of 13 feet (4M) or more. See page 16.The BAFEZ's 1.25", and 2" can basically be used on any pump with the appropriate discharge size that does not exceed 200 lbs (91kg) in weight, which do not generate in excess of 150 ft. Head (45 Meters).

The BAFEZ 3" is for pumps up to 200lbs, which do not generate in excess of 150 ft. of head.

Quantity of One (1) each for Simplex and Two (2) for Duplex.

Assemblies DO NOT include Pump, Discharge piping, Guide Rails, Lifting Chain, nor Gate Valve with Handle.

(*)The 1.25 x 2 is supplied with an ultra close adapter.



Series: BAFEZ-1.25x2*

BAFEZ-2x2 BAFEZ-2x3 BAFEZ-3x3

DESCRIPTION:

THE BREAK AWAY FITTING IS DESIGNED TO ALLOW THE SUBMERSIBLE PUMP TO BE INSTALLED OR REMOVED WITHOUT REQUIRING PERSONNEL TO ENTER THE WET WELL.



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PUMPS & SYSTEMS

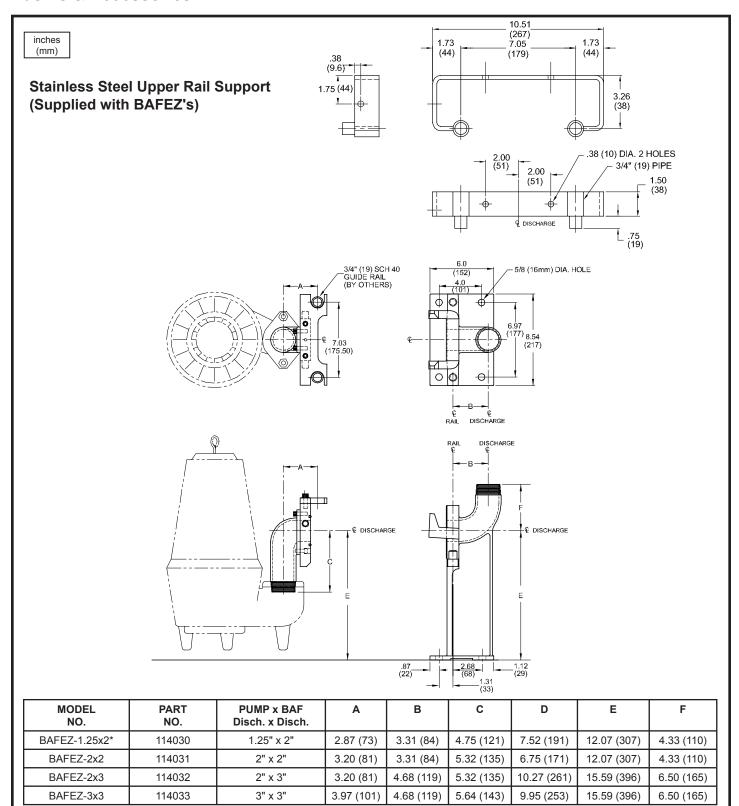
SECTION E PAGE 13 DATE 4/04

BREAK AWAY FITTING

1.25" thru 3" without Check Valve



Basins & Accessories



SECTION E PAGE 14 DATE 4/04







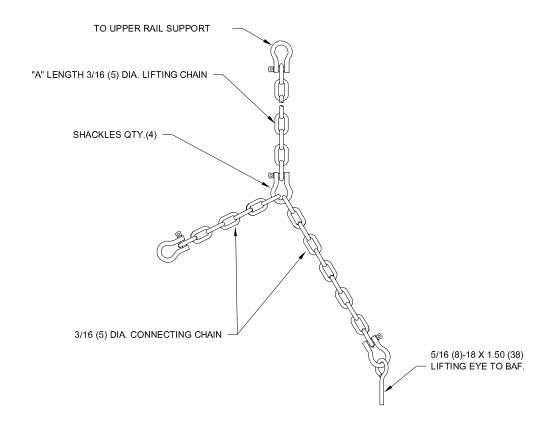
Lifting Chain for BAFEZ's

Basins & Accessories

inches (mm)

Lifting Chain Assembly:

Galvanized Steel P/N: 100564 300 Series Stainless Steel P/N: 100563





PUMPS & SYSTEMS

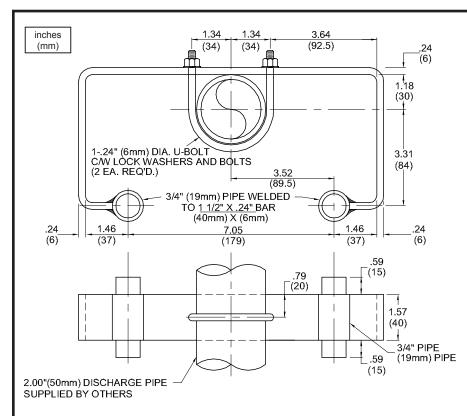
SECTION E PAGE 15 DATE 4/04

INTERMEDIATE RAIL SUPPORTS

2" & 3" Vertical Discharge Pumps and BAFEZ Break Away Fittings



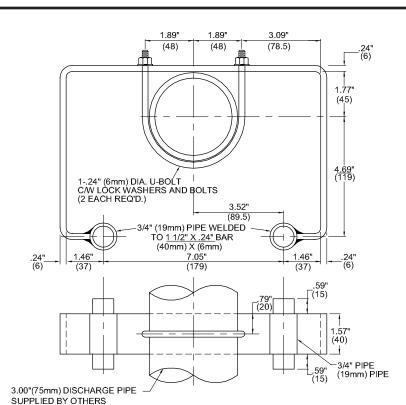
Basins & Accessories



2" Stainless P/N: 100568

Used with:

BAFEZ's P/N's: 114030 & 114031 BAFEZCV's P/N's: 114035 & 114036



3" Stainless P/N: 100569

Used with:

BAFEZ's P/N's: 114032 & 114033

SECTION E PAGE 16 DATE 4/04 CRANE



SWING CHECK VALVES

1-1/2" & 2" PVC Compression & Solvent Weld

Basins & Accessories

The swing check valves are used for preventing backflow of materials in waste water lines, sump pump disposal lines, sewage lift stations or ejector systems. Also used where minimum head loss or flow resistance is required, or in swimming pools, hot tubs, or spa applications.

FEATURES:

- No metalic parts, corrosion resistant.
- Full flow design.
- Angle seat and weighted flapper design for low pressure seal.
- PVC weighted and shielded flapper will retain backpressure up to 125 PSI.
- Ideal for close working areas, easy pipe alignment.
- Compression ends can be used as union connections.
- · Designed for both horizontal or vertical usage.
- Pressure rated 125 PSI @ 72°F.

PART NO.	MODEL NO.	TYPE	SIZE	В	С
102163	BCV150C	Compression	1.50 (38)	8.50 (216)	3.15 (80)
102164	BCV200C	Compression	2 (51)	9.63 (245)	4.23 (107)
073271	BCV150S	Solvent Weld	1.50 (38)	5.38 (137)	3.15 (80)
102166	BCV200S	Solvent Weld	2 (51)	6.00 (152)	4.23 (107)

Dimensions may vary.

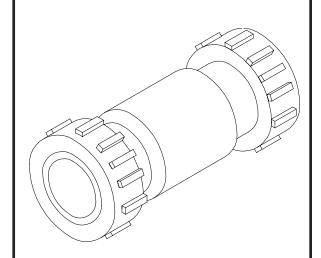


Illustration shown may NOT represent true product.

Models:

Compression: BCV150C

BCV200C

Solvent Weld: BCV150S

BCV200S

COMPRESSION SOLVENT WELD inches (mm)



PUMPS & SYSTEMS

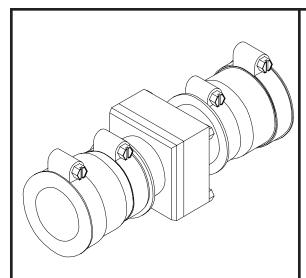
SECTION E PAGE 17 DATE 4/04

FLAPPER CHECK VALVE

1-1/4" & 1-1/2"



Basins & Accessories



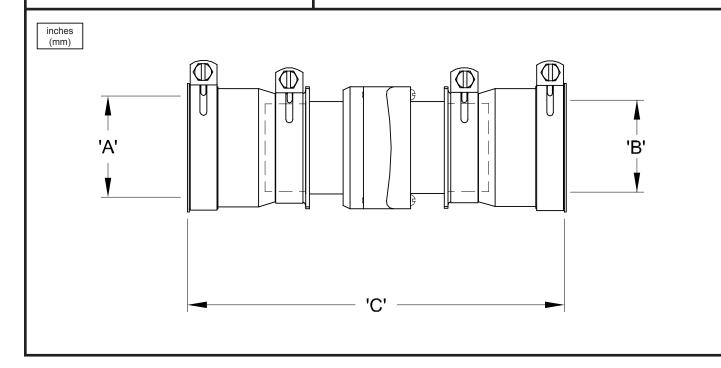
P/N: 1067

The flapper check valve is used for preventing backflow of materials in waste water lines, sump pump disposal lines, sewage lift stations or ejector systems. Also used where minimum head loss or flow resistance is required, or in swimming pools, hot tubs, or spa applications.

FEATURES:

- Full flow port design.
- Angle seat for hinge flapper to eliminate chatter.
- Strong ABS body construction.
- Solid lifetime self cleaning flapper with ball type hinge.
- Encased gasket between bodies eliminates all chances of leakage.
- 4 Stainless steel clamps.
- Adjustable Hose Fits 1-1/4" IPS, 1-1/2" copper or 1-1/2" IPS.

PART NO.	SIZE "A"	SIZE "B"	С
1067	1-1/4" & 1-1/2"	1-1/4" & 1-1/2"	7.30
	(32 & 38)	(32 & 38)	(185)



SECTION E PAGE 18 DATE 4/04 CRANE

A Crane Co. Company



BALL CHECK VALVES

1-1/4" & 2" Cast Iron 1-1/4", 1-1/2" & 2" PVC

Basins & Accessories

1-1/4" & 2", Cast Iron
HOUSINGASTM Class 30 Cast Iron
BALLNatural Rubber
PLUG.....Schedule 40 PVC

TEMPERATURE80°C and a potential peak of 100°C. **PRESSURE TEST**.....150 Lbs./Sq. In.(10.6 kgs/sq. meter).

P/N: 1-1/4"077881 Weight: 4.4 lbs (2kg) **P/N: 2"**077882 Weight: 9.0 lbs. (4.1kg)

1-1/4", 1-1/2" & 2", PVC

HOUSINGPVC

BALLNitrile or Buna-N

PLUG.....PVC

TEMPERATURE80°C and a potential peak of 100°C.
PRESSURE TEST......150 Lbs./Sq. In.(10.6 kgs/sq. meter).
P/N: 1-1/4"085448 Weight: 1.0 lbs. (.46kg)
P/N: 1-1/2"099727 Weight: 1.5 lbs. (.68kg)

FEATURES:

- Works both vertically and horizontally (in the latter case, place the "bulge" above the axe of flow- the ball can thus return to its seat by the pull of gravity).
- Ball has sufficient weight to seat tightly and moves freely to open.
- Low headlosses as the ball is set completely to one side at a maximum rate of flow
- · Works in silence.
- No maintenance.
- · Easy dismantling.
- · Supplied with clean out port and plug.

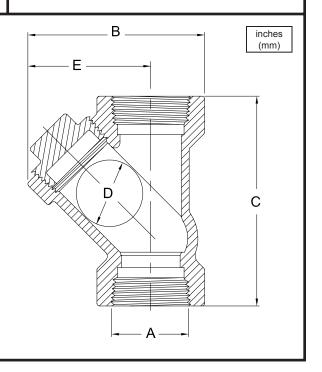
APPLICATIONS:

Waste water or fluids of varying viscosity, liquid manure, etc.

THREADED PLUG
BODY

Series: 1-1/4" thru 2" Cast Iron & PVC

PART NO.	SIZE A	WIDTH B	LENGTH C	BALL DIA. D	E
077881	1-1/4 (32)	4.50 (114)	5.00 (127)	1.62 (41)	3.00 (76)
085448	1-1/4 (32)	4.50 (114)	5.63 (143)	1.50 (38)	3.00 (76)
099727	1-1/2 (38)	6.50 (165)	7.56 (192)	2.50 (64)	4.19 (106)
077882	2 (51)	6.00 (152)	6.87 (175)	2.50 (64)	4.25 (107)
089874	2 (51)	6.50 (165)	7.06 (179)	2.50 (64)	4.25 (107)





A Crane Co. Company

PUMPS & SYSTEMS

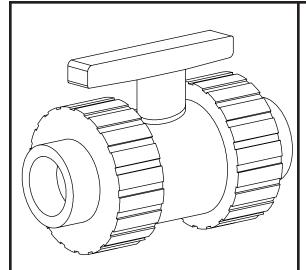
SECTION E PAGE 19 DATE 4/04

TRUE UNION BALL VALVES

1-1/4" & 2"



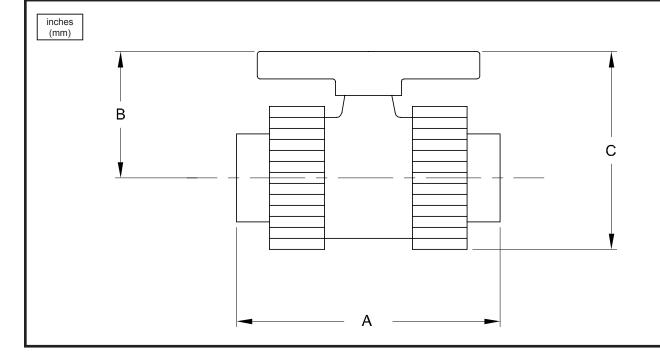
Basins & Accessories



P/N'S:

1-1/4" 2" 085115 089873 The True Union Ball Valves are manufactured of Type I Schedule 80 PVC, (Cell Classification 12454-B) with EPDM O-rings for superior chemical and corrosion resistance. These valves are rated at 150 PSI, non-shock, with a maximum operating pressure at 73°F (23°C). The valves are of quick disconnect design for maintenance and can be repairable to the component level, have a full flow bore, 1/4 turn, leak tight shut-off and are listed by NSF for use in portable water service.

PART NO.	NOMINAL SIZE	Α	В	С	WEIGHT LBS. (kg)
085115	1-1/4	7.00 (178)	3.03 (77)	3.97 (101)	2.0 (1)
089873	2	7.38 (188)	4.25 (108)	5.25 (133)	5.5 (2.5)



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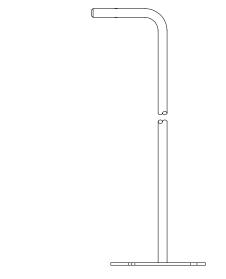
EXTENSION HANDLES

For True Union Ball Valves Basin Depths 48" thru 120"

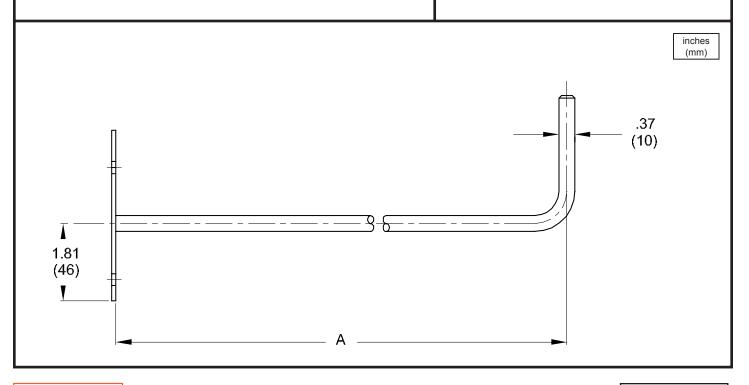
Basins & Accessories

Made From 3/8" (10mm) diameter stainless steel and can be used with 1-1/4" (32mm)and 2" (51mm) true union ball valves.

PART NO.	BASIN DEPTH	LENGTH "A"
094780	42 (1219)	12 (305)
094781	60 (1524)	24 (610)
094782	72 (1829)	26 (914)
094783	78 (1981)	42 (1067)
094784	84 (2134)	48 (1219)
094785	90 (2286)	54 (1372)
094786	96 (2438)	60 (1524)
094787	108 (2743)	72 (1829)
094788	120 (3048)	84 (2134)
097868	132 (3353)	96 (2438)
097003	144 (3658)	108 (2743)
095287	156 (3962)	120 (3048)
097327	168 (4267)	132 (3353)
098090	180 (4572)	144 (3658)
098091	192 (4877)	156 (3962)
099191	204 (5182)	168 (4267)



P/N's: 094780 thru 094788





A Crane Co. Company

PUMPS & SYSTEMS

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FOOT VALVE

4 for 1 3/4" to 1-1/2"



Basins & Accessories



P/N: 021339

LENGTH..... 7 Inches (178mm) **WIDTH.....** 1-15/16 (49mm)

WEIGHT6 oz. (170 grams) each Carton of 12, 5lbs. (2.3kg)

SIZE..... Fits four pipe sizes, 3/4 (19mm), 1 (25mm), 1-1/4 (32mm) &

1-1/2 (38mm), In 2" (51mm) or Larger Casings.

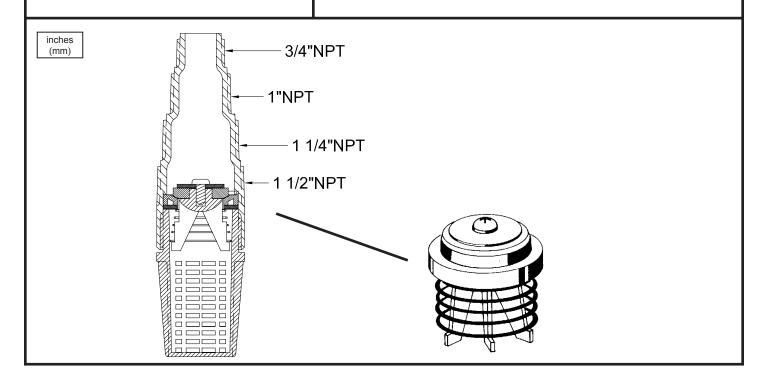
BODYAcetal Celcon SCREENAcetal Celcon HARDWAREStainless Steel

Here's the ideal foot valve, complete with all the features you'd want if you designed it yourself! Nothing like the BARNES 4 for 1, for performance, durabillity, easy installation.

- Positive Sealing: Made possible by a spring-loaded valve poppet closing against a smooth tapered seat.
- Corrosion-proof: Made entirely of new molded materials and stainless steel, won't corrode regardless of water conditions.
- · Strong: Withstands working pressures up to 200 psi.
- Self-Cleaning: Special design prevents sand scale from settling on the seating surface and fouling the valve.
- Full Flow: Large screen area resist clogging, assures ample water passage, eliminates suction drag.
- Tapered ribs on screen provide guide to eliminate pipe joint hange-up during installation.

EASY INSTALLATION:

Simply remove the threaded sections which are smaller than required. Grip the 3/4" threaded section in a vise and cut off un-needed threads with a hacksaw. The self-lubricating, precision-molded threads require only a small amount of pipe dope. Yet, if too much is applied, it is squeezed outside, protecting the valve seat from fouling.



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	Basins & Accessories
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PUMPS & SYSTEMS

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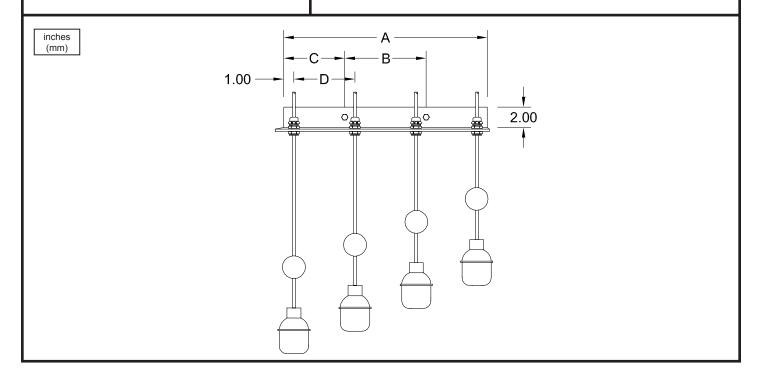
Basins & Accessories



Series P/N: 059720

Cable rack to include, Cord Grips, Conduit Lock Nuts 1/2-14, and Qty. 2 Corrosion Resistent Cap Screws 5/16-18 x 1" (25mm) Long. Steel Cable rack has an Asphalt Bituminous Coating.

PART NO	MATERIAL	THK.	QTY FLOATS	A DIM	B DIM
059720	STEEL	.25 (6)	4	20 (508)	6 (152)
059720G	STEEL	.25 (6)	5	26 (660)	9 (229)
059720E	STAINLESS	.25 (6)	4	20 (508)	6 (152)



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8

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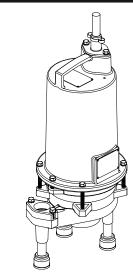






Submersible Grinder Pumps

DISCHARGE		1¼" NPT, Female, Vertical, Bolt-On Flange
		160°F (71°C) Intermittent
		Cast Iron ASTM A-48, Class 30
MOTOR HOL	JSING	Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
		Removable and Adjustable
		12 Vane, Vortex, With Pump Out Vanes
	. 200.g.,	On Back Side. Dynamically Balanced, ISO G6.3.
	Material	Cast Iron ASTM A-48, Class 30
SHREDDING		Hardened 440C Stainless Steel, Rockwell® C-55.
		Hardened 440CStainless Steel, Rockwell® C-55.
		· · · · · · · · · · · · · · · · · · ·
	NGS	
		300 Series Stainless Steel
SEAL:		•
OLAL.		Silicon-Carbide/Silicon-Carbide/Buna-N
	wateriar	Hardware -300 Series Stainless
CORD ENTR	Υ	20 ft. (6m) Cord with plug Custom Molded
OOKD LIVIN		Quick Connect, for Sealing and Strain Relief
IIPPER REA	RING	Single Row, Ball, Oil Lubricated
OI I EK BEA	Load	
LOWER BEA		Single Row, Ball, Oil Lubricated
LOWER BEA	Load	
MOTOR:		NEMA L-Single Phase Torque Curve.
moron.	Doolgii	Oil-Filled, Squirrel Cage Induction
	Insulation	
SINGLE PHA		Capacitor Start/Capacitor Run.
LEVEL CON		in capacitor otari capacitor rtan.
		Pipe Mounted, Piggy-Back, Mechanical
		with 240 Plug
OPTIONAL E	QUIPMENT	Impeller Trims, Cord Length
		F



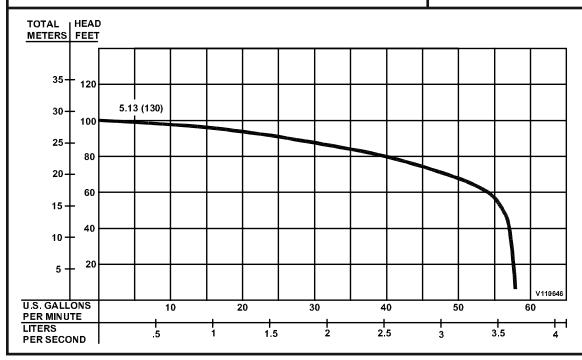
Series: PGPP, ProGrind 2HP, 3450RPM, 60Hz





DESCRIPTION:

THE GRINDER PUMP IS DESIGNED TO REDUCE DOMESTIC, COMMERCIAL, INSTITUTIONAL AND LIGHT INDUSTRIAL SEWAGE TO A FINELY GROUND SLURRY



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

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PUMPS & SYSTEMS

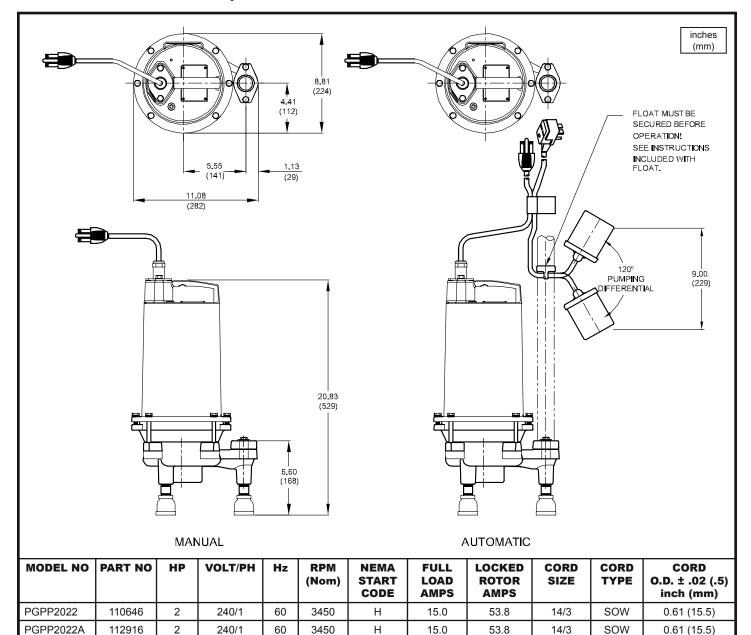
SECTION F PAGE 1 DATE 4/04

Series PGPP

ProGrind, Vortex



Submersible Grinder Pumps



IMPORTANT!

112916

2

240/1

1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.

60

3450

- THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

Н

15.0

SECTION F PAGE 4/04 DATE



53.8

14/3

0.61 (15.5)



DISCHARGE13/4" (45mm) Hose Connection,

90° Rotation

LIQUID TEMPERATURE 145°F (63°C) Continuous **VOLUTE**...... Brass ASTM A4, 85-5-5-5

INTERMEDIATE...... Brass ASTM A4, 85-5-5-5

HOUSING TUBE Brass, 260 Soft

HOUSING END PIECE Brass ASTM A4, 85-5-5-5 SCREEN: Design Area, 264 sq. in. wrap around,

5/32" Dia. mesh

Material 304 Stainless Steel

PUMP SUPPORTS Brass

DIAPHRAGM Buna-N, Pressure Equalized

IMPELLER:

1/3 & 1/2HP Four Vane Open Design:

3/4 & 1HP Six Vane Open

Material Brass ASTM A4, 85-5-5-5

SHAFT416 Stainless Steel

O-RINGS Buna-N

HARDWARE 300 Series Stainless Steel

SEAL Single Mechanical, Carbon/Ceramic/Buna-N

CABLE ENTRY 12 ft. (4m) Cord. Pressure gromment

for sealing and strain relief

MOTOR END BEARING Single Row, Ball, Oil Lubricated

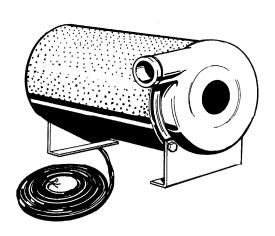
PUMP END BEARING Sleeve, Oil Lubricated

MOTOR: DesignNEMA L, Oil Filled, Squirrel Cage Induction

Insulation Class A

SINGLE PHASE...... Permanent Split Capacitor (PSC)

Includes Overload Protection in Motor



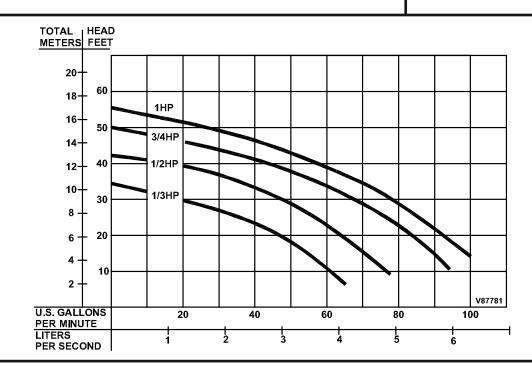
Series: SFU 1/3 - 1HP, 3450RPM, 60Hz



Underwriters Laboratories Inc. File No. E142177

DESCRIPTION:

THESE PUMP ARE SPECIALLY DESIGNED FOR USE IN DRAMATIC, DECORATIVE WATER DISPLAYS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

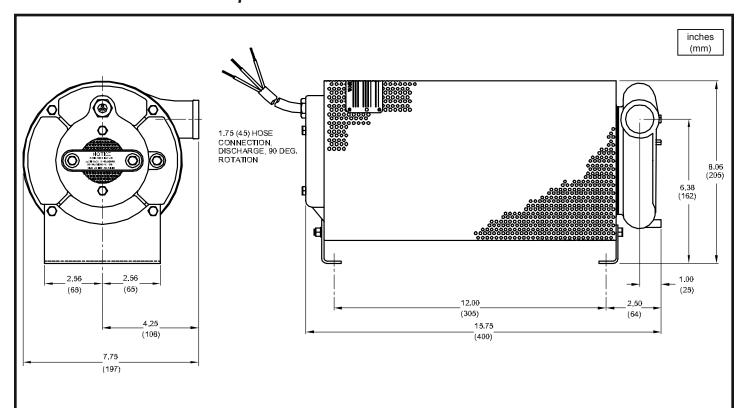
CRANE

A Crane Co. Company

PUMPS & SYSTEMS

SECTION H PAGE DATE 4/04





MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
SFU31	087781	1/3	115/1	60	3450	J	8.0	21.0	16/3	SOW	0.395 (10)
SFU51	087782	1/2	115/1	60	3450	Е	9.5	21.0	16/3	SOW	0.395 (10)
SFU71	087783	3/4	115/1	60	3450	D	12.0	28.0	16/3	SOW	0.395 (10)
SFU72	087784	3/4	230/1	60	3450	D	6.0	14.0	16/3	SOW	0.395 (10)
SFU102	087785	1	230/1	60	3450	Е	7.0	21.0	16/3	SOW	0.395 (10)

IMPORTANT!

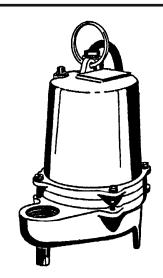
- 1.) THESE PUMPS ARE UL LISTED FOR PUMPING WATER. DO NOT USE TO PUMP FLAMMABLE LIQUIDS.
- 2.) SPECIAL SUCTION CHAMBER KEEPS MOTOR 2/3 SUBMERGED AT ALL TIMES FOR COOL OPERATION.
- 3.) MODIFICATIONS MAY AFFECT "UL" LISTING.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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DISCHARGE	:	2" NPT, Female, Vertical
		77°F (25°C) Continuous
1		,
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
IMPELLER:	Design	2 Vane open, with pump out vanes on back
		side. Dynamically balanced, ISO G6.3
	Material:	Cast Iron ASTM A-48, Class 30
SHAFT		416 Stainless Steel
	NGS	
		300 Series Stainless Steel
SEAL:	Design	Single Mechanical, Oil Filled reservoir
		Secondary Exclusion Seal
	Material	Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTR	Y	15 ft. (5m) Quick Disconnect Cord with plug
		On 115 Volt, Pressure Gromment for sealing
		and strain relief
UPPER BEA	RING	Single Row, Ball, Oil Lubricated
		Single Row, Ball, Oil Lubricated
MOTOR:		NEMA L Torque curve, Oil Filled, Squirrel cage
MOTOR.	Design	Induction
	la sulstis a	
011101 5 5	Insulation	
SINGLE PHA	12F	Permanent Split Capacitor (PSC).
		Includes thermal overload protection in motor
OPTIONAL E	EQUIPMENT	Seal Material, Additional cord and
		Cast Iron Impeller

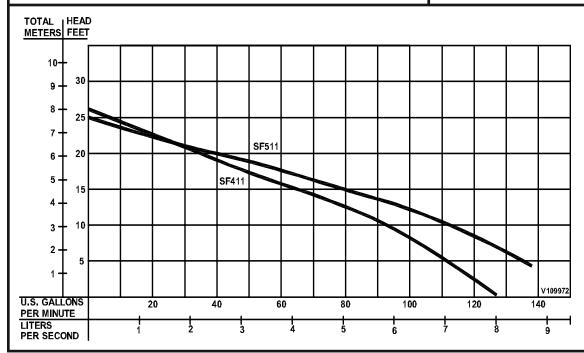


Series: SF .4HP, 1750RPM, 60Hz .5HP, 1750RPM, 60Hz



DESCRIPTION:

THESE PUMP ARE SPECIALLY DESIGNED FOR USE IN DRAMATIC, DECORATIVE WATER DISPLAYS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

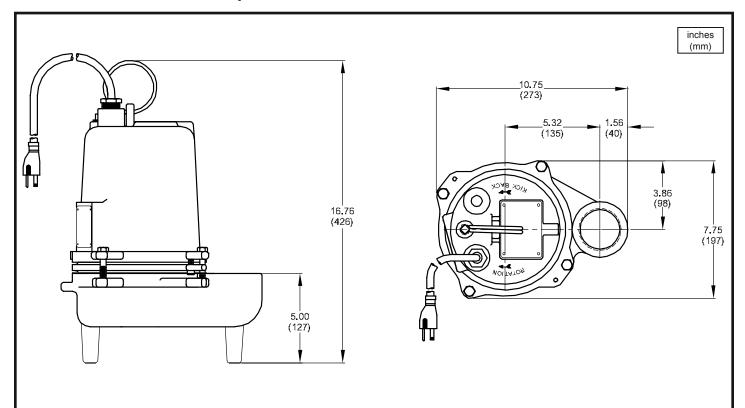


A Crane Co. Company

PUMPS & SYSTEMS

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MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
SF411	109972	0.4	115/1	60	1750	С	12.0	19.0	14/3	SJTOW	0.375 (9.5)
SF511	109973	0.5	115/1	60	1750	Α	12.0	26.0	14/3	SJTOW	0.375 (9.5)

IMPORTANT!

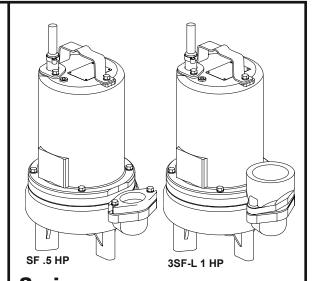
- 1.) DO NOT USE TO PUMP FLAMMABLE LIQUIDS.
- 2.) NSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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DISCHARGE	:	
		2" NPT, Female, Vertical, Bolt-on Flange
	3SF Series	3" NPT, Female, Vertical, Bolt-on Flange
LIQUID TEM	PERATURE	104°F (40°C) Continuous
VOLUTE		Cast Iron ASTM A-48, Class 30
MOTOR HOL	JSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	:	Cast Iron ASTM A-48, Class 30
IMPELLER:	Design	2 Vane open, with pump out vanes on back
		side. Dynamically balanced, ISO G6.3
	Material	Cast Iron ASTM A-48, Class 30
SHAFT		416 Stainless Steel
SQUARE RII	NGS	Buna-N
HARDWARE		300 Series Stainless Steel
PAINT		Air Dry Enamel
SEAL:	Design	Single Mechanical
	Material	Silicon/Silicon/Buna-N
		Hardware -300 Series Stainless
CORD ENTR	Y	15 ft. (5m) Cord with plug on 120 Volt
		Quick Connect, Custom Molded for sealing
		and strain relief
UPPER BEA	RING	Single Row, Ball, Oil Lubricated
LOWER BEA	ARING	Single Row, Ball, Oil Lubricated
MOTOR:	Design	NEMA L Torque curve, Oil Filled, Squirrel cage
		Induction
	Insulation	
SINGLE PHA	\SE	Permanent Split Capacitor (PSC).
		Includes thermal overload protection in motor
OPTIONAL E	EQUIPMENT	Seal Material, Additional cord and
		Impeller trims

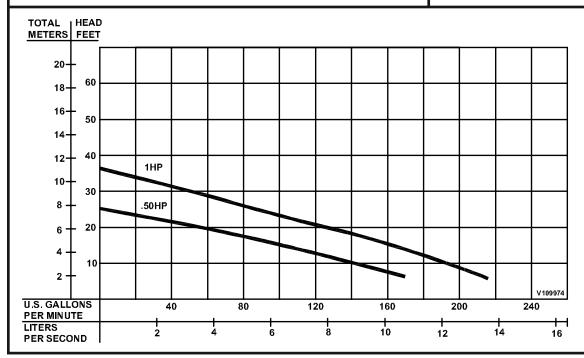


Series: SF - .5HP, 1750RPM, 60Hz 3SF-L - 1HP, 1750RPM, 60Hz



DESCRIPTION:

THESE PUMP ARE SPECIALLY DESIGNED FOR USE IN DRAMATIC, DECORATIVE WATER DISPLAYS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

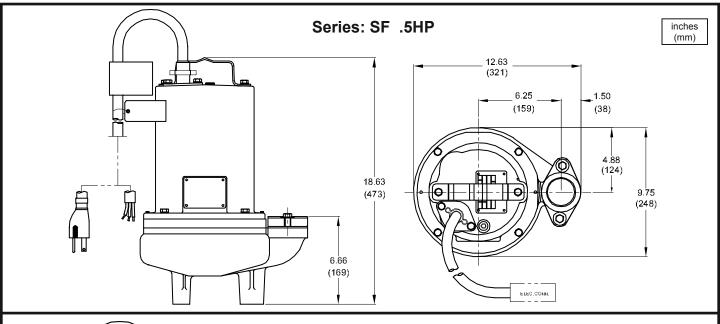
CRANE_®

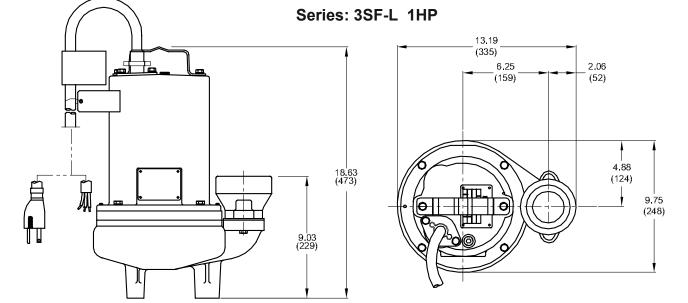
A Crane Co. Company

PUMPS & SYSTEMS

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MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D. inch (mm)
SF51	109974	0.5	120/1	60	1750	F	11.6	21.3	14/3	SJTOW	0.375 (9.5)
3SF1074L	109975	1.0	200-240/1	60	1750	D/G	8.8/8.3	21.5/25.8	14/3	SOW	0.530 (13.5)

IMPORTANT!

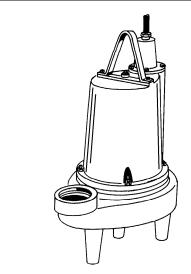
- 1.) DO NOT USE TO PUMP FLAMMABLE LIQUIDS.
- 2.) NSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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DISCHARGE		3" NPT, Female, Vertical
		104°F (40°C) Continuous
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
		•
		Cast Iron ASTM A-48, Class 30
IMPELLER:	Design	2 Vane open, with pump out vanes on back
		side. Dynamically balanced, ISO G6.3
		Cast Iron ASTM A-48, Class 30
		416 Stainless Steel
SQUARE RING	GS	Buna-N
HARDWARE.		300 Series Stainless Steel
PAINT		Air Dry Enamel
SEAL:	Design	Single Mechanical
		Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTRY	′	25 ft. (7.6m) Cord Pressure Gromment
		for sealing and strain relief
LIPPER REAR	RING	Single Row, Ball, Oil Lubricated
		Single Row, Ball, Oil Lubricated
MOTOR:		NEMA L Torque curve, Oil Filled, Squirrel cage
MOTOR.	Design	Induction
	Insulation	
CINCLE BUAG		
SINGLE PHAS	DE	Permanent Split Capacitor (PSC).
		Includes thermal overload protection in motor
OPTIONALEC	QUIPMEN [Seal Material, Additional cord and
		Impeller trims

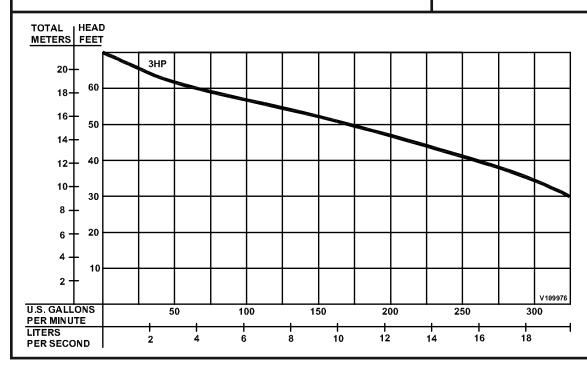


Series: 3SF-L 3.0HP, 1750RPM, 60Hz



DESCRIPTION:

THESE PUMP ARE SPECIALLY DESIGNED FOR USE IN DRAMATIC, DECORATIVE WATER DISPLAYS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

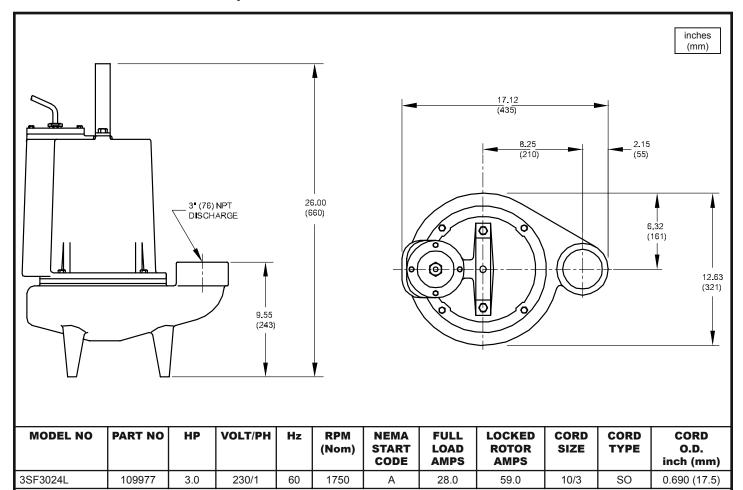


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IMPORTANT!

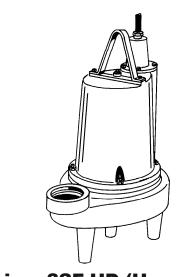
- 1.) DO NOT USE TO PUMP FLAMMABLE LIQUIDS.
- 2.) NSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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DIGGUADOS		OLIVIDA E L. V. C. L
		3" NPT, Female, Vertical
		104°F (40°C) Continuous
		Cast Iron ASTM A-48, Class 30
		Cast Iron ASTM A-48, Class 30
SEAL PLATE		Cast Iron ASTM A-48, Class 30
IMPELLER:	Design	2 Vane open, with pump out vanes on back
		side. Dynamically balanced, ISO G6.3
	Material	Cast Iron ASTM A-48, Class 30
SHAFT		416 Stainless Steel
SQUARE RI	NGS	Buna-N
		300 Series Stainless Steel
PAINT		Air Dry Enamel
SEAL:		Inboard Single Mechanical, Oil Filled reservoir
		Carbon/Ceramic/Buna-N
		Hardware -300 Series Stainless
CORD ENTR	Y	25 ft. (7.6m) Cord Pressure Gromment
		for sealing and strain relief
UPPER BEA	RING	Single Row, Ball, Oil Lubricated
		Single Row, Ball, Oil Lubricated
MOTOR:		NEMA L Torque curve, Oil Filled, Squirrel cage
I WIOTOK.	Design	Induction
	Insulation	
SINGLE DUA		Permanent Split Capacitor (PSC).
SINGLE PRA	40E	Includes thermal overload protection in motor
ODTIONAL F	CUIDMENT	•
OPTIONALE	EQUIPMEN I	Seal Material, Additional cord and
		Impeller trims

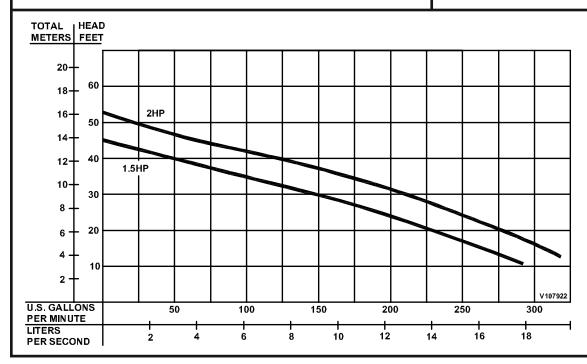


Series: 3SF-HD (Heavy Duty) 1.5 & 2HP, 1750RPM, 60Hz



DESCRIPTION:

THESE PUMP ARE SPECIALLY DESIGNED FOR USE IN DRAMATIC, DECORATIVE WATER DISPLAYS



Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

CRANE

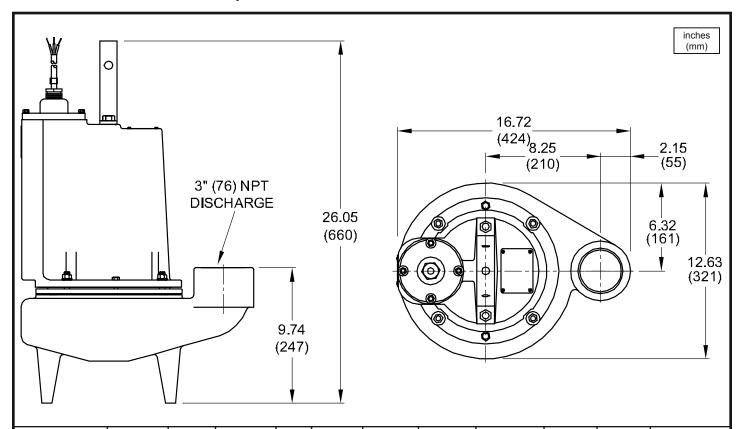
A Crane Co. Company

PUMPS & SYSTEMS

SECTION H PAGE 9 DATE 4/04 **Heavy Duty**



Submersible Fountain Pumps



МО	DEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D. inch (mm)
3SF	-1524HD	110952	1.5	230/1	60	1750	В	12.6	23.0	10/3	so	0.690 (17.5)
3SF	-2024HD	110953	2.0	230/1	60	1750	В	14.5	29.0	10/3	so	0.690 (17.5)

IMPORTANT!

1.) DO NOT USE TO PUMP FLAMMABLE LIQUIDS.

2.) NSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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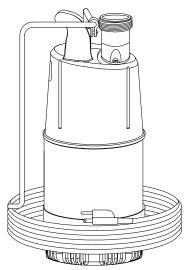


2" NPT Male Discharge



Portable Submersible Pumps

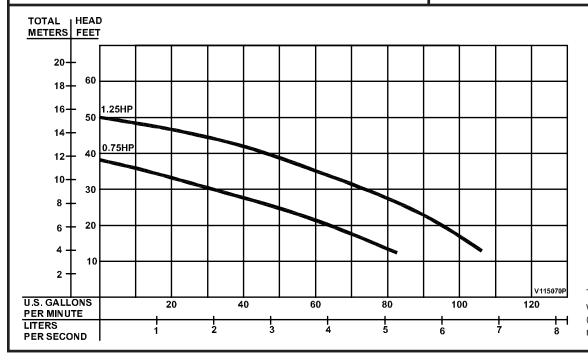
DISCHARGE2" NPT, Male, Vertical MOTOR SHELL Stainless Steel VOLUTE Non-Metallic IMPELLER Non-Merallic SHAFT 420 Stainless Steel HARDWARE 300 Series Stainless Steel Design Double Mechanical, Oil Filled Reservoir Rotating Face Silicon/Carbide, Pump End Material: Carbon, Motor End Stationary Face..... Silicon/Carbide Elastomer Buna-N Hardware 300 Series Stainless CORD ENTRY...... 50 ft. (15m) Cord with plug on 120 Volt Models. Molded for strain relief and compression seal Design NEMA Design L - Single Phase. MOTOR: Completely Air-Filled, Squirrel Cage Induction SINGLE PHASE...... Capacitor Start and Run. Includes Overload Protection in Motor Rubberized LIFTING HANDLE...... Non-Metallic



Series: 70, 71, 125, 126 .7 & 1.25HP, 3450RPM, 60Hz

DESCRIPTION:

The pumps are compact, lightweight units and highly portable. Designed specifically for use by contractors and utility service personnel. These pumps can operate in up to 104°F (40°C) temperature water. Before pumping fluids other than water consult the factory, giving fluid, fluid temperature, specific gravity, viscosity, capacity in USGPM and total head and/or pressure requirements, including friction loss through discharge line, fittings, valves, etc.





Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

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PUMPS & SYSTEMS

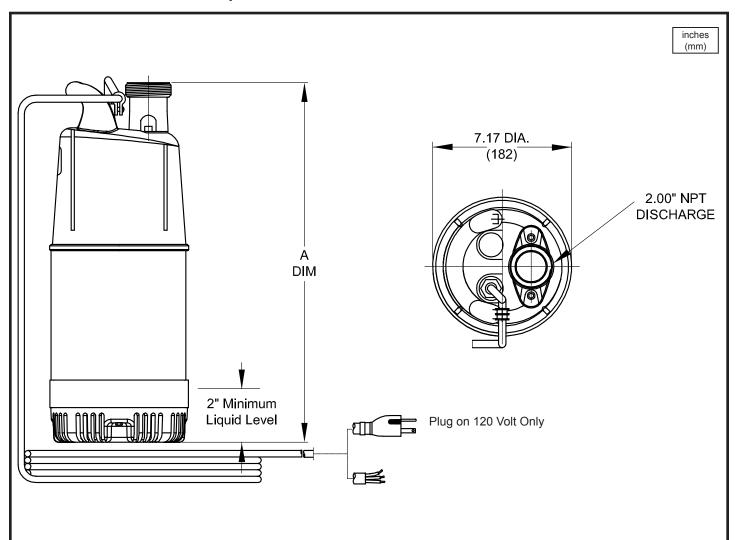
SECTION I PAGE 1 DATE 4/04

Series 70, 71, 125, 126

2" NPT Male Discharge



Portable Submersible Pumps



MODEL NO	PART NO	A DIM inch (mm)	HP	VOLT/PH	Hz	RPM (Nom)	FULL LOAD AMPS	PUMP WEIGHT
70	115070	17.76 (451)	0.7	120/1	60	3450	8.0	30 lbs (13.6kg)
71	115071	17.76 (451)	0.7	240/1	60	3450	4.0	30 lbs (13.6kg)
125	115125	18.54 (471)	1.25	120/1	60	3450	15.0	35 lbs (15.9kg)
126	115126	18.54 (471)	1.25	240/1	60	3450	7.6	35 lbs (15.9kg)

Pump rated for operation at ± 10% voltage at motor.

IMPORTANT!

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
- 3.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

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