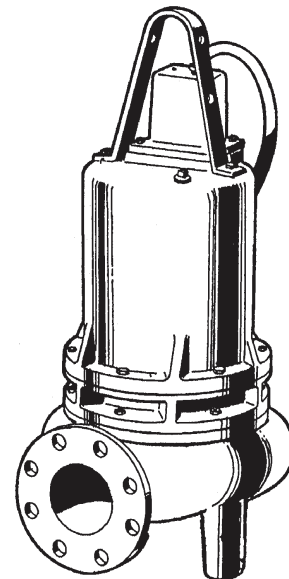


4" Horizontal Discharge - Submersible Non-Clog Pumps

DISCHARGE	4" 125lb., Flange Horizontal
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:	
<i>Design</i>	2 Vane, Open with pump out vanes on back side, Dynamically Balanced, ISO G6.3
<i>Material</i>	Cast Iron ASTM A-48, Class 30
SHAFT	416 Stainless Steel
SQUARE RINGS	Buna-N
DIAPHRAGM	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	304 Stainless Steel
PAINT	Air Dry Enamel (Epoxy Optional)
SEAL:	
<i>Design</i>	Double Mechanical, Oil filled pressure equalized reservoir
<i>Material</i>	Carbon/Ceramic/Buna-N
CORD ENTRY	40 ft. (12.1 m) Cord. Epoxy Sealed Housing with secondary pressure grommet for sealing and strain relief
SPEED	1150 RPM (Nominal)
BEARINGS:	
<i>Upper</i>	Single Row, Ball, Oil Lubricated
<i>Load</i>	Radial
<i>Lower</i>	Single Row, Ball, Oil Lubricated
<i>Load</i>	Radial
<i>Life</i>	50,000 HR L10 Design
MOTOR:	
<i>Design</i>	NEMA L- Single Phase, NEMA B - Three Phase Torque Curve, Oil Filled, Squirrel Cage Induction
<i>Winding</i>	Class F, Class H rated Magnet Wire
<i>Service Factor</i>	1.15
SINGLE PHASE	Capacitor Start/Capacitor Run. Requires Barnes Starter/Panel which includes capacitors and overload protection
THREE PHASE	Tri Voltage motor 200-230/460. Requires Overload Protection to be included in Control Panel, VFD Suitable
MOISTURE SENSOR	Normally Open (N/O), Requires relay in control panel
TEMPERATURE SENSOR	Normally Closed (N/C), Requires relay in control panel.
OPTIONAL EQUIPMENT	Seal Material, Impeller Trims, Additional Cord, Epoxy Paint
RECOMMENDED:	
<i>Accessories</i>	Break Away Fitting (BAF) Check Valve Control Panel
<i>Seal Kit PN</i>	130179
<i>Service Kit PN</i>	130175



Series: 4SE 4.5 - 11.3HP, 1150RPM, 60Hz



Sample Specifications: Section 1 Page 16.

DESCRIPTION:

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

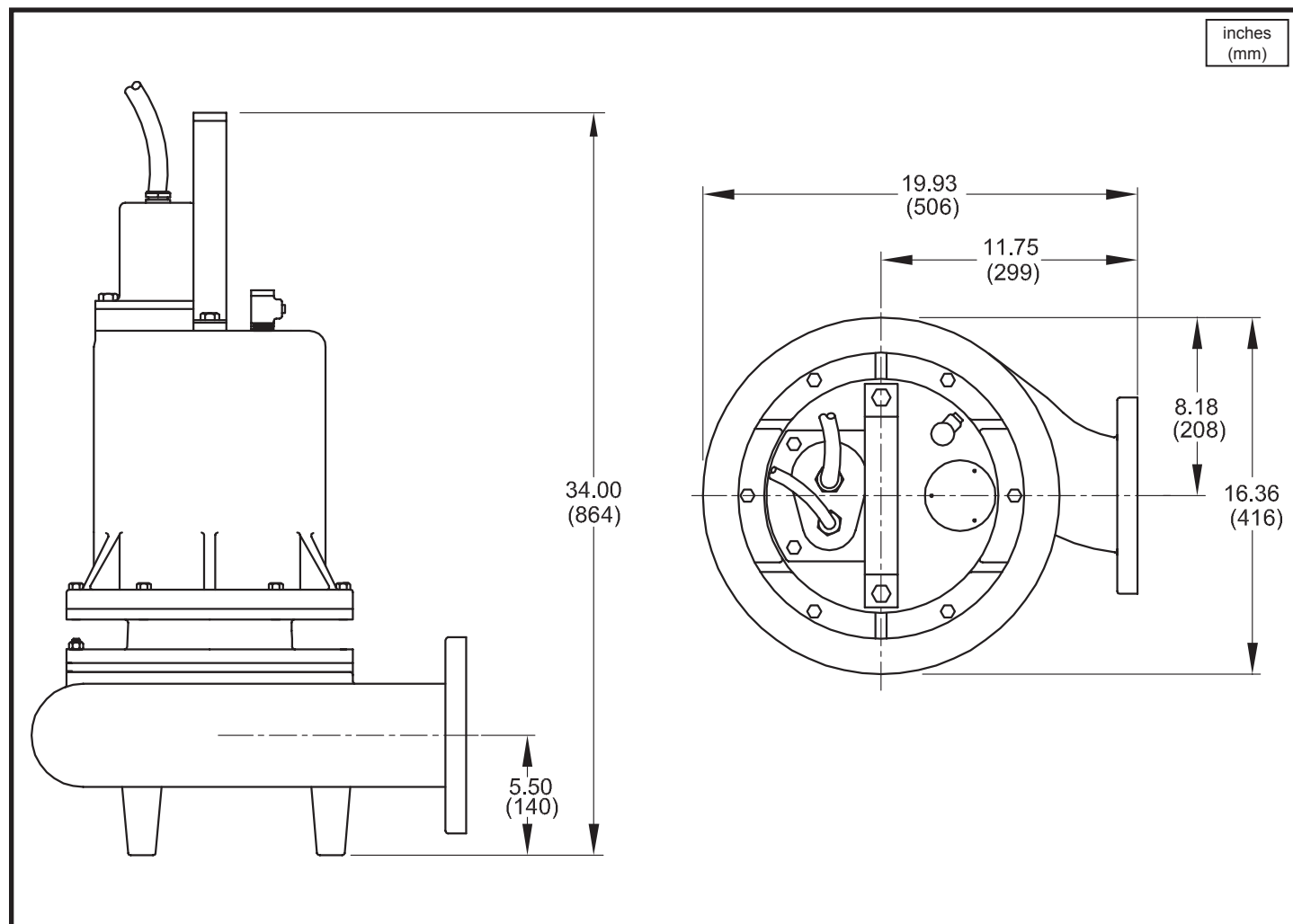
Series 4SE-L

3" Spherical Solids Handling
Double Seal

BARNES®

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4" Horizontal Discharge - 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)
4SE4596L	084615	4.5	200-230/3	60	1150	C/G	16.6/14.4	51.3/64.0	10/4	SOW	0.750 (19.1)
4SE4546L	084616	4.5	460/3	60	1150	F	7.2	29.5	10/4	SOW	0.750 (19.1)
4SE4556L	089303	4.5	575/3	60	1150	F	5.7	23.6	10/4	SOW	0.750 (19.1)
4SE7596L	084618	7.5	200-230/3	60	1150	B/E	25.3/22.0	74.8/86.0	8/4	SOW	0.830 (21)
4SE7546L	084619	7.5	460/3	60	1150	E	11.0	43.0	8/4	SOW	0.830 (21)
4SE7556L	089304	7.5	575/3	60	1150	E	8.8	34.4	10/4	SOW	0.750 (19.1)
4SE11396L	084621	11.3	200-230/3	60	1150	B/D	32.2/28.0	107.8/124	8/4	SOW	0.830 (21)
4SE11346L	084622	11.3	460/3	60	1150	D	14.0	62.0	8/4	SOW	0.830 (21)
4SE11356L	089305	11.3	575/3	60	1150	D	11.2	49.6	10/4	SOW	0.750 (19.1)

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

IMPORTANT !

- PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 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 1D
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DATE 3/14

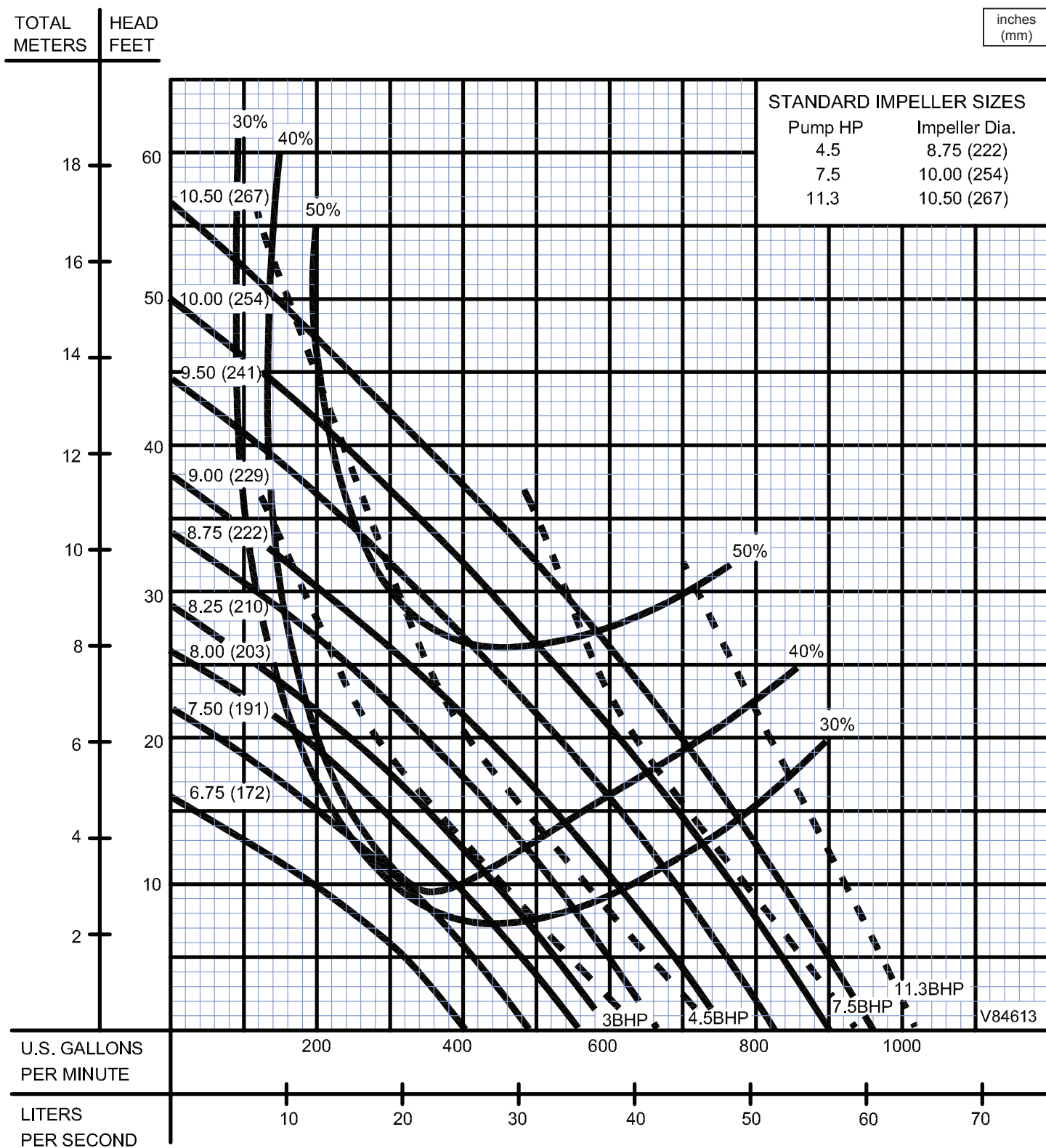
CRANE®

A Crane Co. Company

PUMPS & SYSTEMS

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4" Horizontal Discharge - Submersible Non-Clog Pumps



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