BARNES®

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Series 4SEV-DS

3" Spherical Solids Handling Vortex

I&O Manual

4" Horizontal Discharge - Submersible Non-Clog Pumps

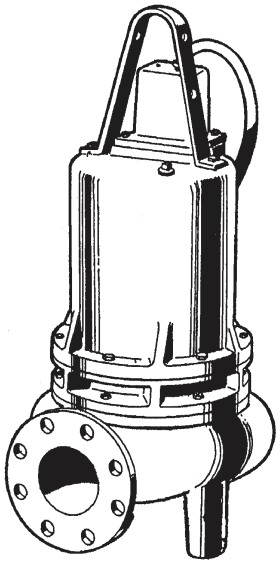
DISCHARGE		4" 125lb., Flange Horizonal
LIQUID TEMPERATURE		104°F (40°C) Continuous
VOLUTE		Cast Iron ASTM A-48, Class 30
MOTOR HOUSING		Cast Iron ASTM A-48, Class 30
SEAL PLATE		Cast Iron ASTM A-48, Class 30
SPACER		Cast Iron ASTM A-48, Class 30
IMPELLER:		
	Design	Vortex, 8 Vane with pump out vanes on back side, Dynamically Balanced, ISO G6.3
	Material	Cast Iron ASTM A-48, Class 30
SHAFT		416 Stainless Steel
SQUARE RINGS		Buna-N
DIAPHRAGM		Buna-N
HARDWARE		300 Series Stainless Steel
LIFTING BAIL		304 Stainless Steel
PAINT		Air Dry Enamel (Epoxy Optional)
SEAL:	*Design*	Double Mechanical, Oil filled pressure equalized reservoir
	Material	Carbon/Ceramic/Buna-N Hardware - 300 Series Stainless
CORD ENTRY		40 ft. (12.1 m) Cord. Epoxy Sealed Housing with secondary pressure grommet for sealing and strain relief
SPEED		1750 RPM (Nominal)
BEARINGS:		
	Upper	Single Row, Ball, Oil Lubricated
	Load	Radial
	Lower	Single Row, Ball, Oil Lubricated
	Load	Radial
	Life	50,000 HR L10 Design
MOTOR:	*Design*	NEMA L- Single Phase, NEMA B - Three Phase Torque Curve, Oil Filled, Squirrel Cage Induction
	Winding	Class F, Class H rated Magnet Wire
	Service Factor	1.15
SINGLE PHASE		Capacitor Start/Capacitor Run. Requires Barnes Starter/Panel which includes capacitors and overload protection
THREE PHASE		Dual Voltage motor 230/460/575. 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:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel
Seal Kit PN	130179
Service Kit PN	130175

C SP US
LR16567

SWPA MEMBER



Series: 4SEV-DS, 4.5 - 15HP, 1750RPM, 60Hz

DESCRIPTION:

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

WARNING:
CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

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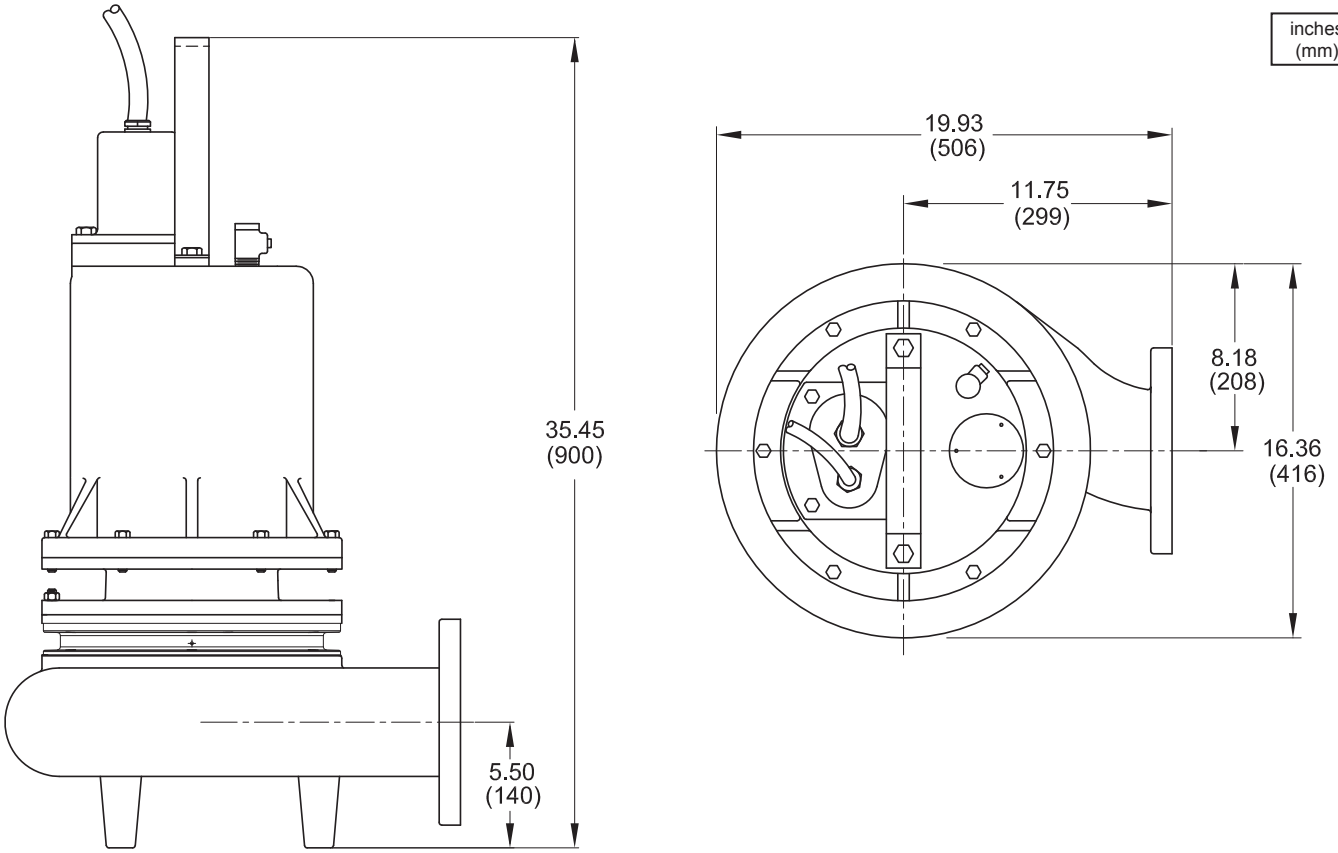


MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
4SEV4524DS	140226	4.5	230/1	60	1750	A	26.0	59.0	10/4	SOW	0.750 (19.1)
4SEV4564DS	140227	4.5	200/3	60	1750	C	20.9	48.6	10/4	SOW	0.750 (19.1)
4SEV4534DS	140228	4.5	230/3	60	1750	E	18.2	56.0	10/4	SOW	0.750 (19.1)
4SEV4544DS	140229	4.5	460/3	60	1750	E	9.1	28.0	10/4	SOW	0.750 (19.1)
4SEV4554DS	140230	4.5	575/3	60	1750	E	7.2	22.4	10/4	SOW	0.750 (19.1)
4SEV7524DS	140231	7.5	230/1	60	1750	A	39.0	96.0	6/4	SOW	1.06 (27)
4SEV7564DS	140232	7.5	200/3	60	1750	B	30.8	69.5	8/4	SOW	0.830 (21)
4SEV7534DS	140233	7.5	230/3	60	1750	D	26.8	80.0	8/4	SOW	0.830 (21)
4SEV7544DS	140234	7.5	460/3	60	1750	D	13.4	40.0	8/4	SOW	0.830 (21)
4SEV7554DS	140235	7.5	575/3	60	1750	D	10.7	32.0	10/4	SOW	0.750 (19.1)
4SEV11364DS	140236	11.3	200/3	60	1750	B	32.2	109.5	8/4	SOW	0.830 (21)
4SEV11334DS	140237	11.3	230/3	60	1750	D	28.0	126.0	8/4	SOW	0.830 (21)
4SEV11344DS	140238	11.3	460/3	60	1750	D	14.0	63.0	8/4	SOW	0.830 (21)
4SEV11354DS	140239	11.3	575/3	60	1750	D	11.2	50.4	10/4	SOW	0.750 (19.1)
4SEV15034DS	140240	15.0	230/3	60	1750	D	38.0	160.0	6/4	SOW	1.06 (27)
4SEV15044DS	140241	15.0	460/3	60	1750	D	19.0	80.0	6/4	SOW	1.06 (27)
4SEV15054DS	140242	15.0	575/3	60	1750	D	15.2	64.0	8/4	SOW	0.830 (21)

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

IMPORTANT !

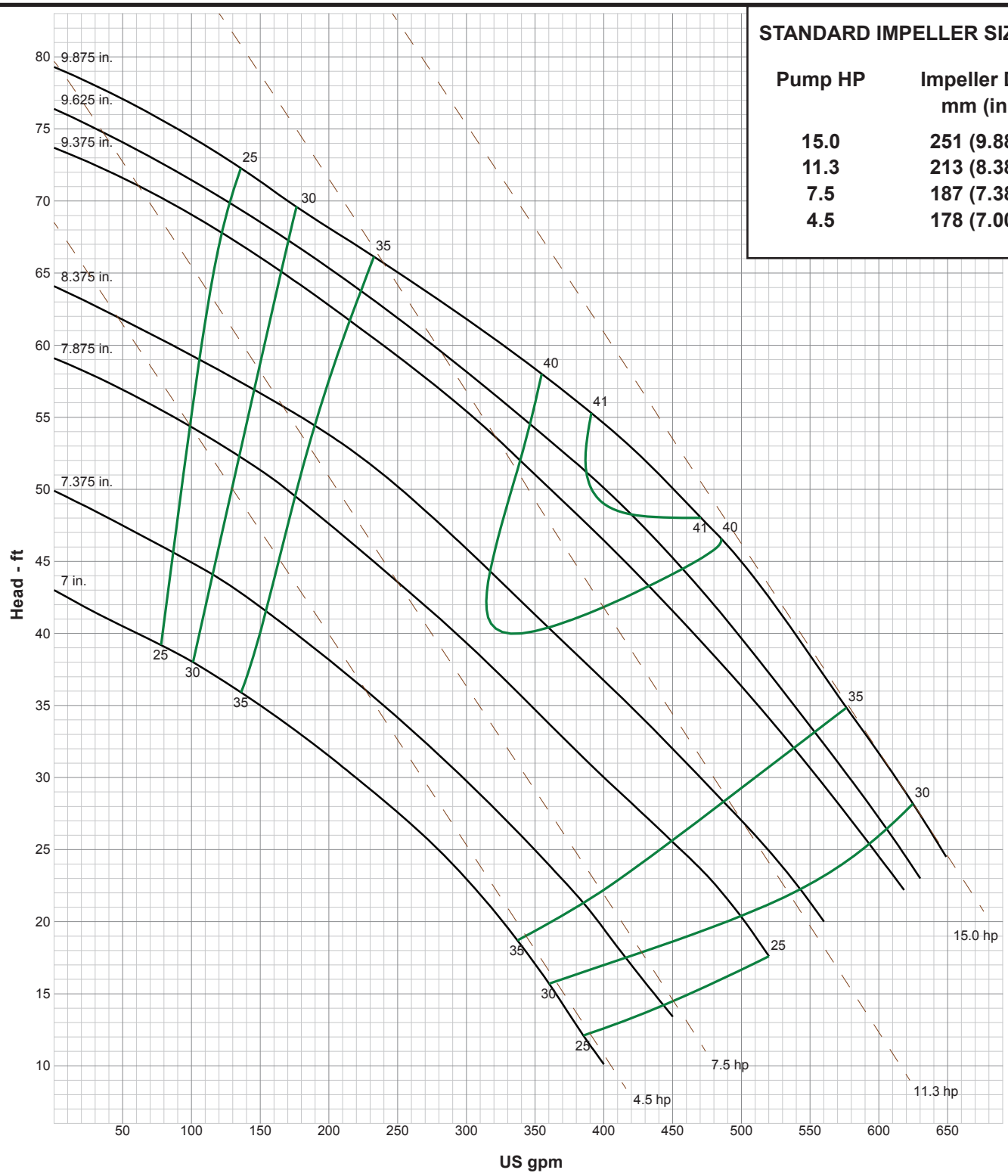
1.) PUMP MAY BE OPERATED “DRY” FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
2.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. 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.

Series 4SEV-DS

Performance Curve
4.5, 7.5, 11.3 & 15HP, 1750RPM, 60Hz

I&O Manual

4" Horizontal Discharge - Submersible Non-Clog Pumps



STANDARD IMPELLER SIZES

Pump HP	Impeller Dia. mm (in.)
15.0	251 (9.88")
11.3	213 (8.38")
7.5	187 (7.38")
4.5	178 (7.00")

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