

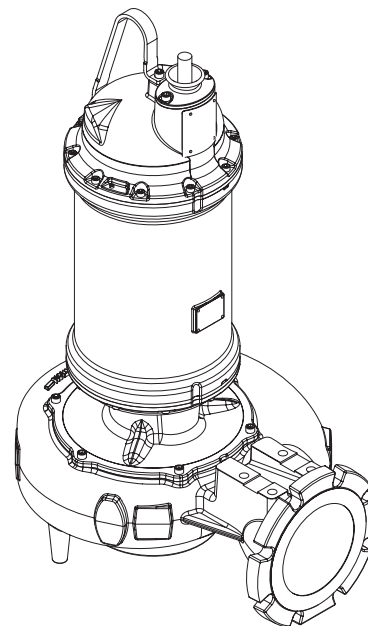
Solids Handling Submersible Pumps

Specifications:

DISCHARGE	8", 125 lb. Horizontal Flange Slotted to accommodate 200mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
WEAR RING	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Ductile Iron ASTM A-536, 65-45-12
IMPELLER:	
<i>Design</i>	Enclosed Tri Vane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
<i>Material</i>	Ductile Iron ASTM A-536, 65-45-12
SHAFT	416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	300 Series Stainless Steel
PAINT	Epoxy Dupont Corlar® Amine Epoxy, Two Coats
SEAL:	
<i>Design</i>	Tandem Mechanical, Oil Filled Reservoir.
<i>Material: Inboard</i>	Rotating Faces - Carbon Stationary Faces - Ceramic
<i>Material: Outboard</i>	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	50 ft. (12.1m) Cord. Dual Pressure Grommet for sealing and strain relief
POWER CORD	CSA Certified Submersible Power Cable 2000V
SPEED	1150 RPM (Nominal)
UPPER BEARING:	
<i>Design</i>	Single Row, Ball, Oil Lubricated
<i>Load</i>	Radial
LOWER BEARING:	
<i>Design</i>	Double Row, Ball, Oil Lubricated
<i>Load</i>	Radial & Thrust
MOTOR:	
<i>Design</i>	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
<i>Insulation</i>	Class H Varnish & Magnet Wire
THREE PHASE	208/230V 25 & 30HP, 230V 40HP, 460V & 575V, 25, 30 & 40HP. Requires Overload Protection to be Included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with connector control circuit
OPTIONAL EQUIPMENT	Seal Material, Impeller Trims, Cord Length, Leg Kit (p/n 125506)
MARKINGS	CSA, FM
WEIGHT	926 lbs (420 Kg)
NOISE EMISSION MAX	In-Air 64 dB-A
SUBMERGENCE	Max Depth 66ft (20m)

RECOMMENDED:

<i>Accessories</i>	Break Away Fitting (BAF) Check Valve Control Panel
<i>Seal & Gasket Kit PN</i>	132120B
<i>Bearing Kit PN</i>	132118B
<i>Overhaul Kit PN</i>	132119



Series: 8XSHTM 25 - 40HP, 1150RPM, 60Hz

Explosion Proof, Class 1, Division 1, Groups C & D, T4



Canadian Standards Association
File No. LR16567-25



Sample Specifications: Section 0.1H Page F.

DESCRIPTION:

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

Series 8XSHTM

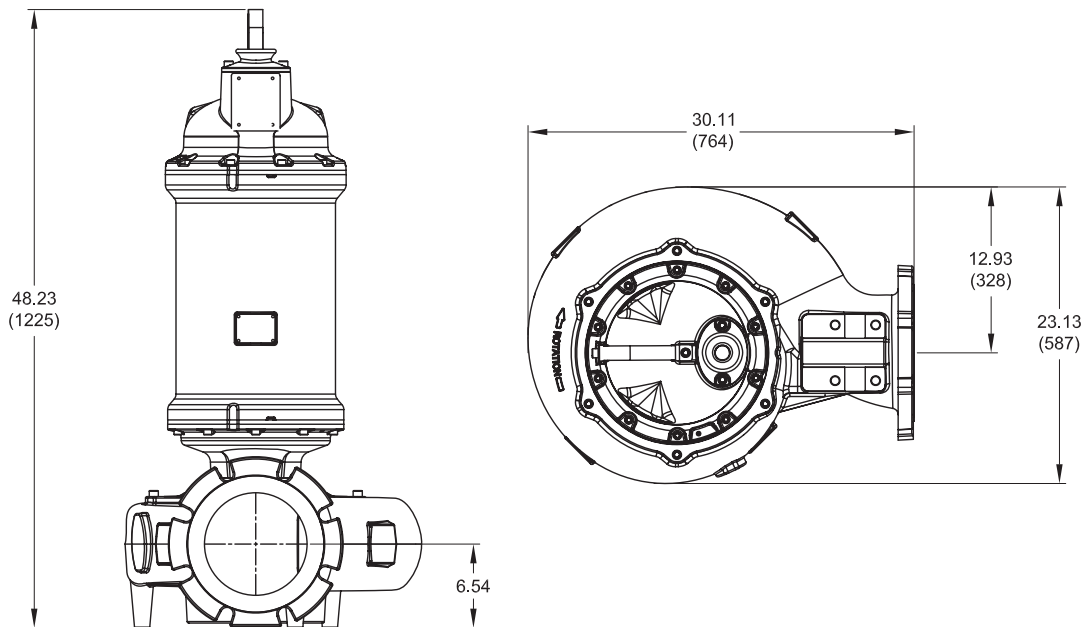
4" Spherical Solids Handling

BARNES®

www.cranepumps.com

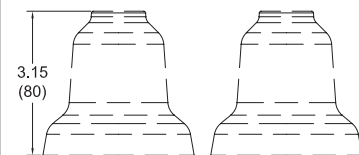
Solids Handling Submersible Pumps

28 Frame Driver



inches
(mm)

Optional Leg Kit - p/n 125506



IMPORTANT !

- 1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE CSA AND FM LISTING.
- 2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT BARNES PUMPS FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
- 3.) THESE PUMPS ARE CSA AND FM LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.** NOT SUITABLE FOR ENVIRONMENTS CONTAINING GASOLINE OR HEXANE.
- 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.
- 5.) A **NON-SPARKING** BREAKAWAY FITTING MUST BE USED TO VALIDATE THE EXPLOSION PROOF LISTING.

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CRANE®

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PUMPS & SYSTEMS

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Solids Handling Submersible Pumps

MODEL NO	PART NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	1.2 SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N	CORD SIZE	CORD NOTES
XSHTM Pump	8XSHTM25096	132707	25.0	208	3	60	1150	75.2	90.8	354.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
				230				70.8	82.6					
	8XSHTM25046	132708	25.0	460	3	60	1150	35.4	41.3	177.0	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
	8XSHTM25056	132709	25.0	575	3	60	1150	28.3	33.0	141.6	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
	8XSHTM30096	132710	30.0	208	3	60	1150	90.8	114.9	354.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
				230				82.6	99.7					
	8XSHTM30046	132711	30.0	460	3	60	1150	41.3	49.9	177.0	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
	8XSHTM30056	132712	30.0	575	3	60	1150	33.0	39.9	141.6	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
	8XSHTM40036	132713	40.0	230	3	60	1150	110.4	131.8	476.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
	8XSHTM40046	132714	40.0	460	3	60	1150	55.2	65.9	238.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
	8XSHTM40056	132715	40.0	575	3	60	1150	44.2	52.7	190.4	28	130908	8/4 - 18/4	INCLUDED WITH PUMP

Moisture and Temperature sensor leads are integral to power cord.

Winding Resistance 7.5% Winding resistance measured in OHMS @ 25°C (Between Lines) at motor leads.

Pump rated for operation at ± 10% voltage at motor.

Cord Suffix: XC - 30 Feet, XF - 50 Feet, XJ - 75 Feet, XL - 100 Feet

Series 8XSHTM

Performance Curve
25 - 40HP, 1150RPM, 60Hz



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