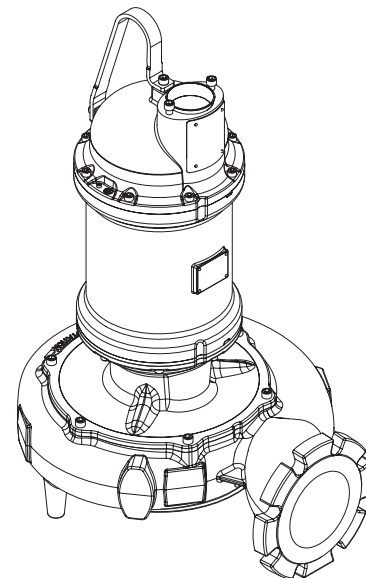


Solids Handling Submersible Pumps

Specifications:

DISCHARGE	6", 125 lb. Horizontal Flange Slotted to accommodate 150mm 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	Cast Iron ASTM A-48, Class 30
IMPELLER:	
<i>Design</i>	Enclosed Dual Vane, With Pump Out Vaness 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	Custom Molded, Quick Connected for Sealing and Strain Relief
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750 & 1150RPM (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	Dual Voltage 230/460V 20HP, 460V 25 & 30HP, 575V 20, 25 & 30HP. 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	674 lbs (306 Kg)
NOISE EMISSION MAX.	In-Air 64t 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>	132120A
<i>Bearing Kit PN</i>	132118A
<i>Overhaul Kit PN</i>	132119



Series: 6XSHD 7.5 - 30HP, 1750RPM, 1150RPM, 60Hz

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



Canadian Standards Association
File No. LR16567-25



This product may be covered by one
or more of the following patents and
other patent(s) pending:
US Patent 7,931,473

Sample Specifications: Section 0.1F Page H.

DESCRIPTION:

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

Series 6XSHD

28 Frame Driver

3" Spherical Solids Handling

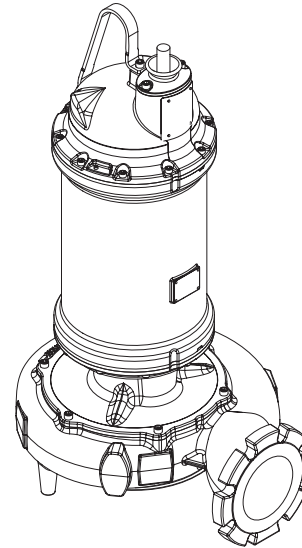
BARNES®

www.cranepumps.com

Solids Handling Submersible Pumps

Specifications:

DISCHARGE	6", 125 lb. Horizontal Flange Slotted to accommodate 150mm 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:	
Design	Enclosed Dual Vane, With Pump Out Vaness on Back Side. Dynamically Balanced ISO G6.3
Material	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: Design	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard	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 & Stain Relief
POWER CORD	CSA Certified Submersible Power Cable 2000V
SPEED	1750 & 1150RPM (Nominal)
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load	Radial & Thrust
MOTOR: Design	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	208V 20HP, 208/230V 25 & 30HP, 230V 40HP, 460 & 575V 40, 50 & 60HP. 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	882 lbs (400 Kg)
NOISE EMISSION MAX	In-Air 64 dB-A
SUBMERGENCE	Max Depth 66ft (20m)
RECOMMENDED:	
Accessories	Break Away Fitting (BAF) Check Valve Control Panel
Seal & Gasket Kit PN	132120B
Bearing Kit PN	132118B
Overhaul Kit PN	132119



Series: 6XSHD
20 - 60HP, 1750RPM,
1150RPM, 60Hz

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



Canadian Standards Association
File No. LR16567-25



Sample Specifications: Section 0.1F Page H.

DESCRIPTION:

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

SECTION 0.1F
PAGE 22
DATE 2/12

CRANE®

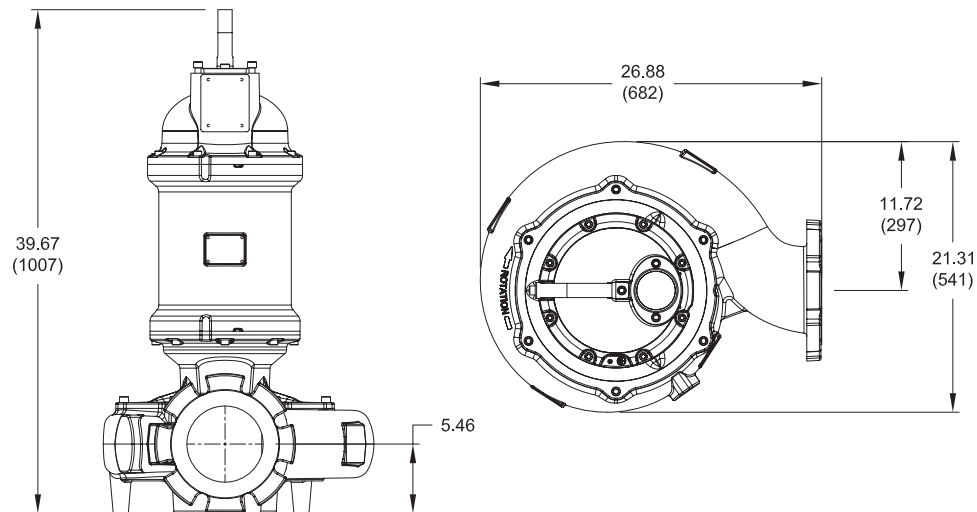
A Crane Co. Company

PUMPS & SYSTEMS

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

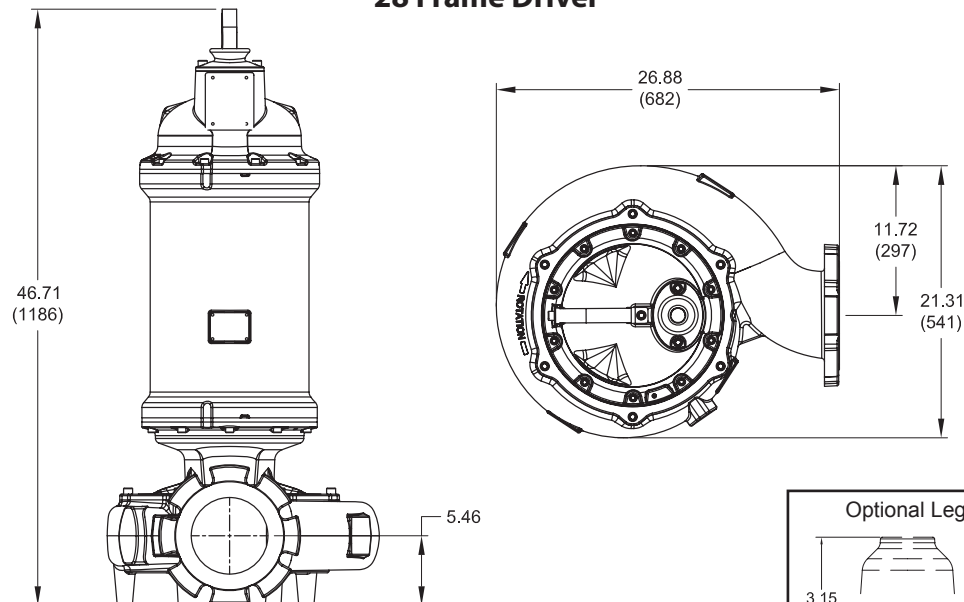
Solids Handling Submersible Pumps

21 Frame Driver

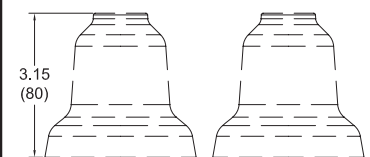


inches
(mm)

28 Frame Driver



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.

Series 6XSHD

1750RPM
3" Spherical Solids Handling

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
6XSHDK25094	132642	25.0	208 230	3	60	1750	G	77.8 71.4	93.4 82.3	359.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6XSHDK25044	132643	25.0	460	3	60	1750	G	33.2	38.9	191.9	21	125499	8/4 - 18/4	SOLD SEPARATELY
6XSHDK25054	132644	25.0	575	3	60	1750	G	26.6	31.1	153.5	21	125497	12/4 - 18/4	SOLD SEPARATELY
6XSHDK30094	132645	30.0	208 230	3	60	1750	E	93.4 82.3	116.9 98.7	359.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6XSHDK30044	132646	30.0	460	3	60	1750	F	38.9	45.9	191.9	21	125499	8/4 - 18/4	SOLD SEPARATELY
6XSHDK30054	132647	30.0	575	3	60	1750	F	31.1	36.7	153.5	21	125499	8/4 - 18/4	SOLD SEPARATELY
6XSHDK40034	132648	40.0	230	3	60	1750	E	106.0	126.4	486.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6XSHDK40044	132649	40.0	460	3	60	1750	E	53.0	63.2	243.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
6XSHDK40054	132650	40.0	575	3	60	1750	E	42.4	50.6	194.4	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
6XSHDK50044	132651	50.0	460	3	60	1750	F	67.1	79.0	339.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
6XSHDK50054	132652	50.0	575	3	60	1750	F	53.7	63.2	271.2	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
6XSHDK60044	132653	60.0	460	3	60	1750	E	79.0	95.5	339.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6XSHDK60054	132654	60.0	575	3	60	1750	E	63.2	76.4	271.2	28	130907	6/4 - 18/4	INCLUDED WITH PUMP

XSHDK 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, or XL - 100 Feet

Solids Handling Submersible Pumps

MODEL NO	PART NO	HP	VOLT	PH	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
6XSHDK75N6	132655	7.5	208	3	60	J	24.9	29.6	137.6	21	125496	12/4 - 18/4	SOLD SEPARATELY
			230				24.0	27.6	68.8		125497		
			460				12.0	13.8					
6XSHDK7556	132656	7.5	575	3	60	J	9.6	11.0	55.0	21	125497	12/4 - 18/4	SOLD SEPARATELY
6XSHDK100N6	132657	10.0	208	3	60	F	32.9	41.0	137.6	21	125498	8/4 - 18/4	SOLD SEPARATELY
			230				30.2	35.8			125497		
			460				15.1	17.9	68.8				
6XSHDK10056	132658	10.0	575	3	60	F	12.1	14.3	55.0	21	125497	12/4 - 18/4	SOLD SEPARATELY
6XSHDK150N6	132659	15.0	208	3	60	H	47.0	56.8	248.6	21	125498	8/4 - 18/4	SOLD SEPARATELY
			230				44.1	51.4			125497		
			460				22.0	25.7	124.3				
6XSHDK15056	132660	15.0	575	3	60	H	17.6	20.6	99.4	21	125497	12/4 - 18/4	SOLD SEPARATELY
6XSHDK20096	132661	20.0	208	3	60	H	60.3	71.5	354.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
			230				59.8	68.2					
			460				28.6	34.9	248.6		125498		
6XSHDK20046	132662	20.0	575	3	60	E	22.9	27.9	99.4	21	125497	12/4 - 18/4	SOLD SEPARATELY
6XSHDK20056	132663	20.0	208	3	60	G	75.2	90.8	354.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
			230				70.8	82.6					
			460				35.4	41.3	177.0		130908		
6XSHDK25046	132665	25.0	575	3	60	G	28.3	33.0	141.6	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
6XSHDK30096	132667	30.0	208	3	60	E	90.8	114.9	354.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
			230				82.6	99.7					
			460				41.3	49.9	177.0		130908		
6XSHDK30046	132668	30.0	575	3	60	E	33.0	39.9	141.6	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
6XSHDK40096	132670	40.0	208	3	60	E	110.4	131.8	476.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
			230				55.2	65.9	238.0		130907		
			460				44.2	52.7	190.4		130908		
6XSHDK40046	132672	40.0	575	3	60	E				28		8/4 - 18/4	INCLUDED WITH PUMP

XSHDK 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, or XL - 100 Feet

Series 6XSHD

Performance Curve
25 - 60HP, 1750RPM, 60Hz



www.cranepumps.com

Solids Handling Submersible Pumps

