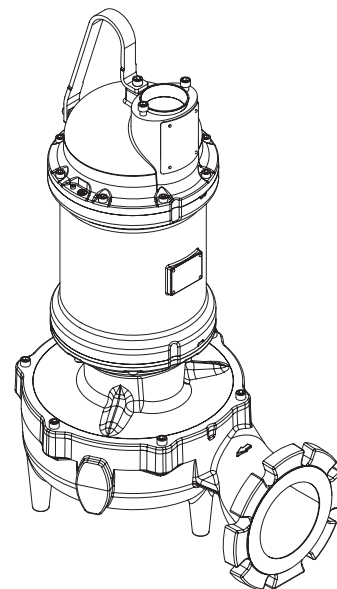


Solids Handling Submersible Pumps

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
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER:	
<i>Design</i>	Vortex, 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 & 1150tRPM (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	Tri-voltage 208-230/460V up to 15HP, Dual Voltage 230/460V up to 20 HP, 460V only 25 & 30 HP & 575V; 7.5 thru 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 contactor control circuit
OPTIONAL EQUIPMENT	Seal Material, Impeller Trims, Cord Length, Leg Kit (p/n 125506)
MARKINGS	CSA, FM
WEIGHT	588 lbs (267Kg)
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>	132120A
<i>Bearing Kit PN</i>	132118A
<i>Overhaul Kit PN</i>	132119



Series: 6XSHV 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 F.

DESCRIPTION:

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

Series 6XSHV

28 Frame Driver

3" Spherical Solids Handling

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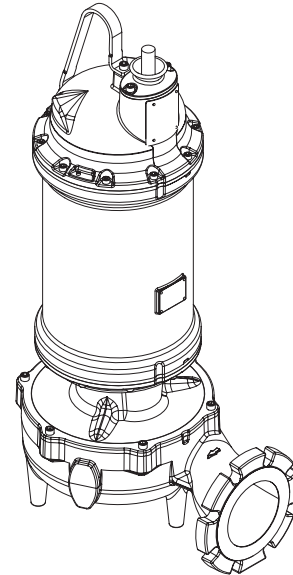
Solids Handling Submersible Pumps

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	Vortex, With Pump Out Vanes 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 and strain 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, 460V & 575V 40 & 50HP. 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	796 lbs (361 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: 6XSHV
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 F.

DESCRIPTION:

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

SECTION 0.1F
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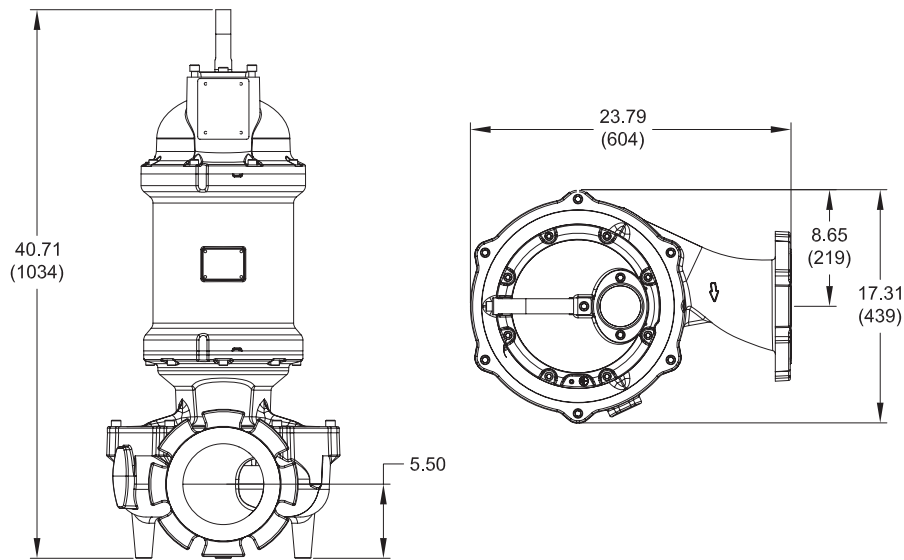
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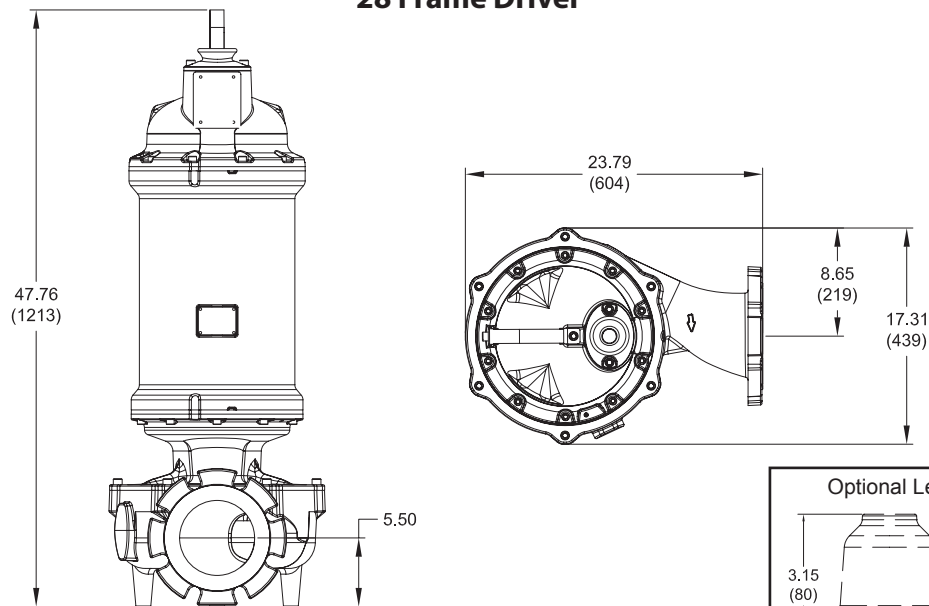
Solids Handling Submersible Pumps

21 Frame Driver

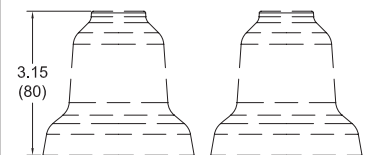


inches
(mm)

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 6XSHV

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
XSHVL Pump	6XSHVL20064	132673	20.0	208	3	60	1750	G	63.0	74.6	323.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
	6XSHVL20084	132674	20.0	230	3	60	1750	J	53.7	59.0	383.9	21	125498	8/4 - 18/4	SOLD SEPARATELY
				460					26.9	29.9			125497	12/4 - 18/4	
	6XSHVL20054	132675	20.0	575	3	60	1750	J	21.5	23.9	153.5	21	125497	12/4 - 18/4	SOLD SEPARATELY
	6XSHVL25094	132676	25.0	208	3	60	1750	G	77.8	93.4	359.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
				230					71.4	82.3					
	6XSHVL25044	132677	25.0	460	3	60	1750	G	33.2	38.9	191.9	21	125499	8/4 - 18/4	SOLD SEPARATELY
	6XSHVL25054	132678	25.0	575	3	60	1750	G	26.6	31.1	153.5	21	125497	12/4 - 18/4	SOLD SEPARATELY
				208					93.4	116.9					
	6XSHVL30094	132679	30.0	230	3	60	1750	E	82.3	98.7	359.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
				460					38.9	45.9					
	6XSHVL30044	132680	30.0	460	3	60	1750	F	31.1	36.7	191.9	21	125499	8/4 - 18/4	SOLD SEPARATELY
	6XSHVL30054	132681	30.0	575	3	60	1750	F	106.0	126.4	486.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
				230					53.0	63.2					
	6XSHVL40044	132683	40.0	460	3	60	1750	E	42.4	50.6	194.4	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
	6XSHVL40054	132684	40.0	575	3	60	1750	E	67.1	79.0	339.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
	6XSHVL50044	132685	50.0	460	3	60	1750	F	53.7	63.2	271.2	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
				575					79.0	95.5					
	6XSHVL60044	132687	60.0	460	3	60	1750	E	63.2	76.4	271.2	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
	6XSHVL60054	132688	60.0	575	3	60	1750	E	63.2	76.4	271.2	28	130907	6/4 - 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, or XL - 100 Feet

Solids Handling Submersible Pumps

XSHVL Pump														
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
6XSHVL75N6	132689	7.5	208	3	60	1150	J	24.9	29.6	137.6	21	125496	12/4 - 18/4	SOLD SEPARATELY
			230					24.0	27.6	125497		12/4 - 18/4		
			460					12.0	13.8	125497		12/4 - 18/4		
6XSHVL7556	132690	7.5	575	3	60	1150	J	9.6	11.0	55.0	21	125497	12/4 - 18/4	SOLD SEPARATELY
6XSHVL100N6	132691	10.0	208	3	60	1150	F	32.9	41.0	137.6	21	125498	8/4 - 18/4	SOLD SEPARATELY
			230					30.2	35.8	125497		12/4 - 18/4		
			460					15.1	17.9	68.8		125497	12/4 - 18/4	
6XSHVL10056	132692	10.0	575	3	60	1150	F	12.1	14.3	55.0	21	125497	12/4 - 18/4	SOLD SEPARATELY
6XSHVL150N6	132693	15.0	208	3	60	1150	H	47.0	56.8	248.6	21	125498	8/4 - 18/4	SOLD SEPARATELY
			230					44.1	51.4	125497		12/4 - 18/4		
			460					22.0	25.7	124.3		125497	12/4 - 18/4	
6XSHVL15056	132694	15.0	575	3	60	1150	H	17.6	20.6	99.4	21	125497	12/4 - 18/4	SOLD SEPARATELY
6XSHVL20096	132695	20.0	208	3	60	1150	H	60.3	71.5	354.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
			230					59.8	68.2	125499		8/4 - 18/4		
			460					28.6	34.9	248.6		125497	12/4 - 18/4	
6XSHVL20046	132696	20.0	460	3	60	1150	E	28.6	34.9	248.6	21	125499	8/4 - 18/4	SOLD SEPARATELY
6XSHVL20056	132697	20.0	575	3	60	1150	E	22.9	27.9	99.4	21	125497	12/4 - 18/4	SOLD SEPARATELY
6XSHVL25096	132698	25.0	208	3	60	1150	G	75.2	90.8	354.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
			230					70.8	82.6	130906		2/4 - 18/4		
			460					35.4	41.3	177.0		130908	8/4 - 18/4	
6XSHVL25046	132699	25.0	460	3	60	1150	G	28.3	33.0	141.6	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
6XSHVL25056	132700	25.0	575	3	60	1150	G	90.8	114.9	354.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6XSHVL30096	132701	30.0	208	3	60	1150	E	82.6	99.7	177.0	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
6XSHVL30046	132702	30.0	460	3	60	1150	E	41.3	49.9	177.0	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
6XSHVL30056	132703	30.0	575	3	60	1150	E	33.0	39.9	141.6	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
6XSHVL40036	132704	40.0	230	3	60	1150	E	110.4	131.8	476.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6XSHVL40046	132705	40.0	460	3	60	1150	E	55.2	65.9	238.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
6XSHVL40056	132706	40.0	575	3	60	1150	F	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, or XL - 100 Feet

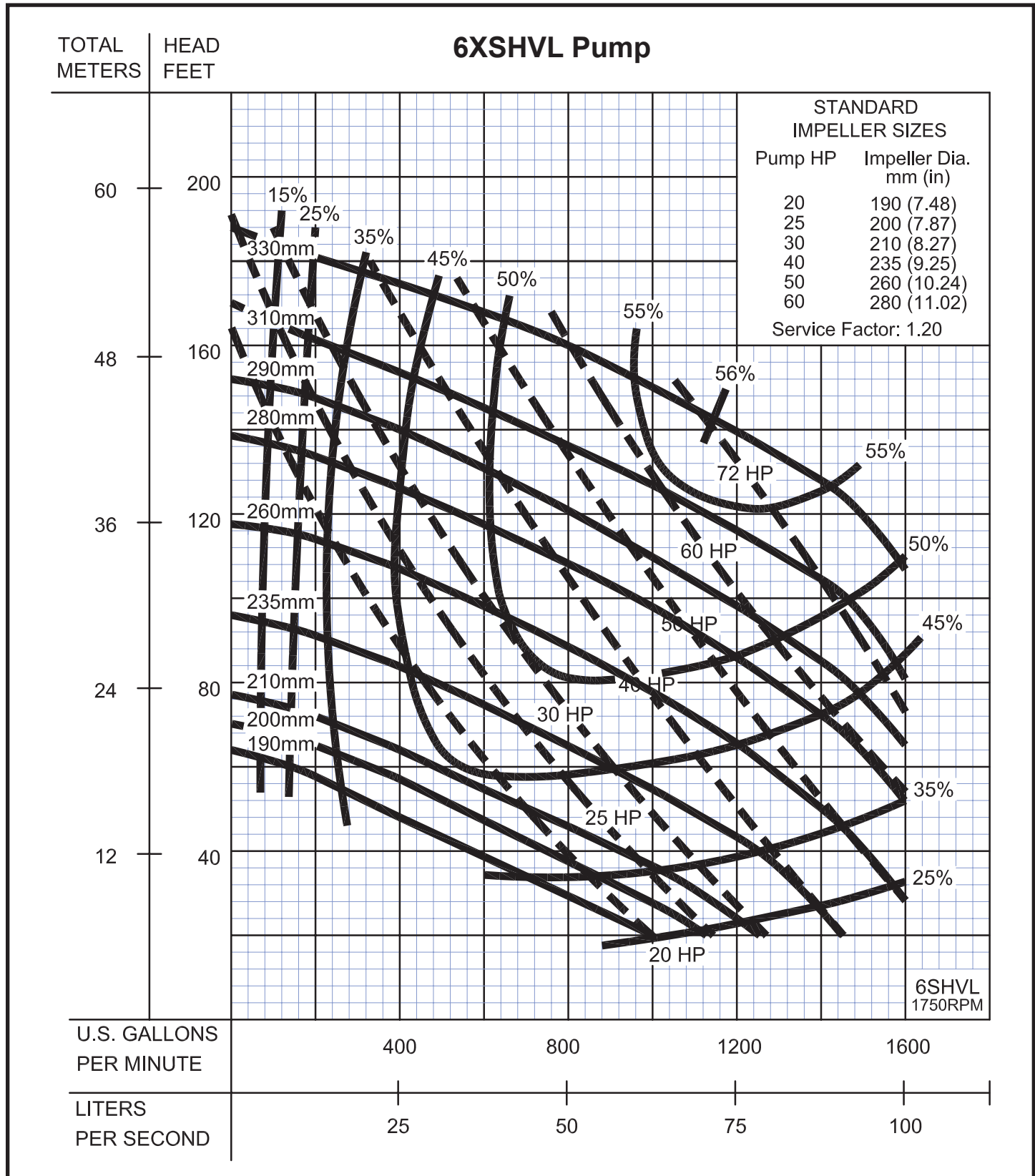
Series 6XSHV

Performance Curve
20 - 60HP, 1750RPM, 60Hz

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Solids Handling Submersible Pumps



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