

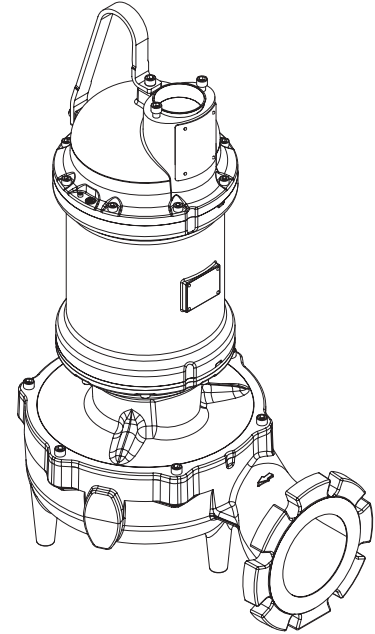
### Solids Handling Submersible Pumps

## Specifications:

<b>DISCHARGE</b> .....	6", 125 lb. Horizontal Flange Slotted to accommodate 150mm ISO Flanges
<b>LIQUID TEMPERATURE</b> .....	104°F (40°C) Continuous
<b>VOLUTE</b> .....	Cast Iron ASTM A-48, Class 30
<b>WEAR RING</b> .....	C954 Lead-Free Bronze
<b>MOTOR HOUSING</b> .....	Cast Iron ASTM A-48, Class 30
<b>SEAL PLATE</b> .....	Cast Iron ASTM A-48, Class 30
<b>IMPELLER:</b>	
<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
<b>SHAFT</b> .....	416 Stainless Steel
<b>"O" RINGS</b> .....	Buna-N
<b>HARDWARE</b> .....	300 Series Stainless Steel
<b>LIFTING BAIL</b> .....	300 Series Stainless Steel
<b>PAINT</b> .....	Epoxy Dupont Corlar® Amine Epoxy, Two Coats
<b>SEAL:</b> <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
<b>CORD ENTRY</b> .....	Custom Molded, Quick Connected for Sealing and Strain Relief
<b>POWER CORD</b> .....	CSA Certified Submersible Power Cable 2000V - Ordered Separately
<b>SPEED</b> .....	1750 & 1150RPM (Nominal)
<b>UPPER BEARING:</b>	
<i>Design</i> .....	Single Row, Ball, Oil Lubricated
<i>Load</i> .....	Radial
<b>LOWER BEARING:</b>	
<i>Design</i> .....	Double Row, Ball, Oil Lubricated
<i>Load</i> .....	Radial & Thrust
<b>MOTOR:</b> <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
<b>THREE PHASE</b> .....	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.
<b>MOISTURE SENSOR</b> .....	Normally Open (N/O), Requires Relay in Control Panel
<b>TEMPERATURE SENSOR</b> .....	Three Normally Closed (N/C). To be wired in series with connector control circuit
<b>OPTIONAL EQUIPMENT</b> .....	Seal Material, Impeller Trims, Cord Length, Leg Kit (p/n 125506)
<b>MARKINGS</b> .....	CSA, CE
<b>WEIGHT</b> .....	588 lbs (267 Kg)
<b>NOISE EMISSION MAX</b> .....	In-Air 64 dB-A
<b>SUBMERGENCE</b> .....	Max Depth 66ft (20m)

#### RECOMMENDED:

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



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



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 0.1E Page F.

### DESCRIPTION:

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

# Series 6SHV

28 Frame Driver  
3" Spherical Solids Handling

# BARNES®

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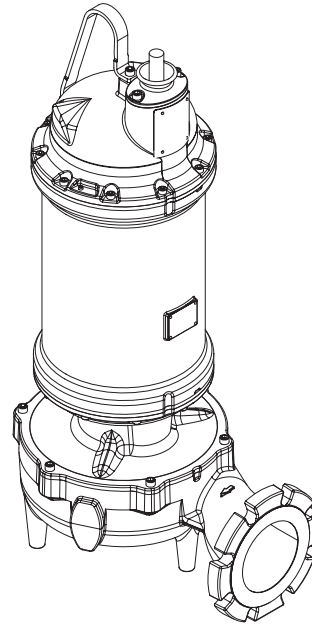
## Solids Handling Submersible Pumps

### Specifications:

<b>DISCHARGE</b> .....	6", 125 lb. Horizontal Flange Slotted to accommodate 150mm ISO Flanges
<b>LIQUID TEMPERATURE</b> .....	104°F (40°C) Continuous
<b>VOLUTE</b> .....	Cast Iron ASTM A-48, Class 30
<b>WEAR RING</b> .....	C954 Lead-Free Bronze
<b>MOTOR HOUSING</b> .....	Cast Iron ASTM A-48, Class 30
<b>SEAL PLATE</b> .....	Ductile Iron ASTM A-536, 65-45-12
<b>IMPELLER:</b>	
<i>Design</i> .....	Vortex, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
<i>Material</i> .....	Ductile Iron ASTM A-536, 65-45-12
<b>SHAFT</b> .....	416 Stainless Steel
<b>"O" RINGS</b> .....	Buna-N
<b>HARDWARE</b> .....	300 Series Stainless Steel
<b>LIFTING BAIL</b> .....	300 Series Stainless Steel
<b>PAINT</b> .....	Epoxy Dupont Cortar® Amine Epoxy, Two Coats
<b>SEAL:</b>	
<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
<b>CORD ENTRY</b> .....	50 ft. (12.1m) Cord. Dual Pressure Grommet for sealing and strain relief
<b>POWER CORD</b> .....	CSA Certified Submersible Power Cable 2000V
<b>SPEED</b> .....	1750 & 1150RPM (Nominal)
<b>UPPER BEARING:</b>	
<i>Design</i> .....	Single Row, Ball, Oil Lubricated
<i>Load</i> .....	Radial
<b>LOWER BEARING:</b>	
<i>Design</i> .....	Double Row, Ball, Oil Lubricated
<i>Load</i> .....	Radial & Thrust
<b>MOTOR:</b>	
<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
<b>THREE PHASE</b> .....	208V 20HP, 208/230V 25 & 30HP, 230V 40HP, 460V & 575V 40 & 50HP. Requires Overload Protection to be Included in control panel.
<b>MOISTURE SENSOR</b> .....	Normally Open (N/O), Requires Relay in Control Panel
<b>TEMPERATURE SENSOR</b> ....	Three Normally Closed (N/C). To be wired in series with connector control circuit
<b>OPTIONAL EQUIPMENT</b> .....	Seal Material, Impeller Trims, Cord Length, Leg Kit (p/n 125506)
<b>MARKINGS</b> .....	CSA, CE
<b>WEIGHT</b> .....	796 lbs (361 Kg)
<b>NOISE EMISSION MAX</b> .....	In-Air 64 dB-A
<b>SUBMERGENCE</b> .....	Max Depth 66ft (20m)

#### RECOMMENDED:

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



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



Canadian Standards Association  
File No. LR16567-25



Sample Specifications: Section 0.1E Page F.

#### DESCRIPTION:

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

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**CRANE**  
®

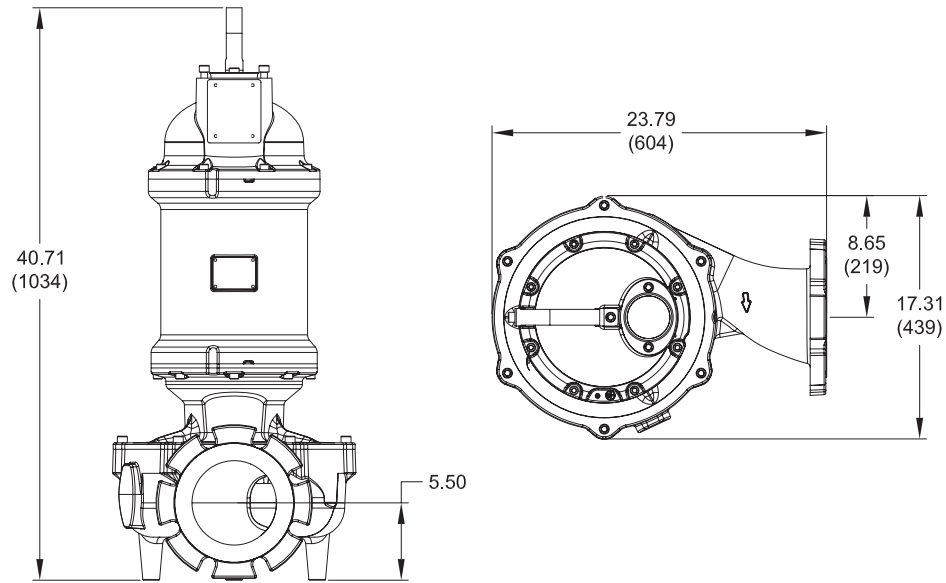
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PUMPS & SYSTEMS

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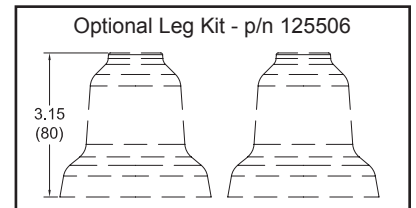
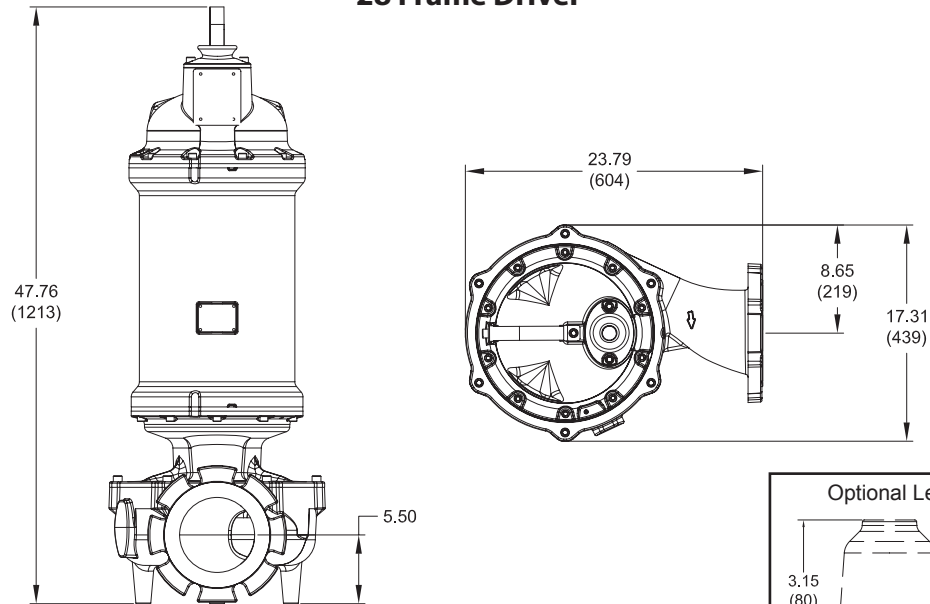
### Solids Handling Submersible Pumps

#### 21 Frame Driver



inches  
(mm)

#### 28 Frame Driver



#### IMPORTANT !

- 1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE CSA 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 LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.**
- 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.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS 1 DIVISION 1 HAZARDOUS LOCATIONS.

# Series 6SHV

1750RPM

3" Spherical Solids Handling



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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
6SHVL20064	132257	20.0	208	3	60	1750	G	63.0	74.6	323.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6SHVL20084	132258	20.0	230	3	60	1750	J	53.7	59.0	383.9	21	125498	8/4 - 18/4	SOLD SEPARATELY
			26.9					29.9						
6SHVL20054	132259	20.0	575	3	60	1750	J	21.5	23.9	153.5	21	125497	12/4 - 18/4	SOLD SEPARATELY
6SHVL25094	132260	25.0	208	3	60	1750	G	77.8	93.4	359.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
			71.4					82.3						
6SHVL25044	132261	25.0	460	3	60	1750	G	33.2	38.9	191.9	21	125499	8/4 - 18/4	SOLD SEPARATELY
6SHVL25054	132262	25.0	575	3	60	1750	G	26.6	31.1	153.5	21	125497	12/4 - 18/4	SOLD SEPARATELY
			93.4					116.9						
6SHVL30094	132263	30	230	3	60	1750	E	82.3	98.7	359.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6SHVL30044	132264	30.0	460	3	60	1750	F	38.9	45.9	191.9	21	125499	8/4 - 18/4	SOLD SEPARATELY
6SHVL30054	132265	30.0	575	3	60	1750	F	31.1	36.7	153.5	21	125499	8/4 - 18/4	SOLD SEPARATELY
			106.0					126.4						
6SHVL40034	132266	40.0	230	3	60	1750	E	53.0	63.2	486.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6SHVL40044	132267	40.0	460	3	60	1750	E	42.4	50.6	243.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
6SHVL40054	132268	40.0	575	3	60	1750	E	67.1	79.0	194.4	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
6SHVL50044	132269	50.0	460	3	60	1750	E	53.7	63.2	339.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
6SHVL50054	132270	50.0	575	3	60	1750	E	79.0	95.5	271.2	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6SHVL60044	132271	60.0	460	3	60	1750	E	63.2	76.4	339.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6SHVL60054	132272	60.0	575	3	60	1750	E	271.2	271.2	271.2	28	130907	6/4 - 18/4	INCLUDED WITH PUMP

SHVL Pump

### IMPORTANT !

Moisture and Temperature sensor leads are integral to power cord.

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

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

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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
6SHVL75N6	132273	7.5	208	3	60	1150	J	24.9	29.6	137.6	21	125496	12/4 - 18/4	SOLD SEPARATELY
			230					27.6	68.8					
			460					13.8	55.0					
6SHVL7556	132274	7.5	575	3	60	1150	J	9.6	11.0	137.6	21	125497	12/4 - 18/4	SOLD SEPARATELY
6SHVL100N6	132275	10.0	208	3	60	1150	F	32.9	41.0	248.6	21	125498	8/4 - 18/4	SOLD SEPARATELY
			230					35.8	124.3					
			460					17.9	99.4					
6SHVL10056	132276	10.0	575	3	60	1150	F	12.1	14.3	354.0	21	125497	12/4 - 18/4	SOLD SEPARATELY
6SHVL150N6	132277	15.0	208	3	60	1150	H	47.0	56.8	248.6	21	125498	8/4 - 18/4	SOLD SEPARATELY
			230					51.4	124.3					
			460					25.7	99.4					
6SHVL15056	132278	15.0	575	3	60	1150	H	17.6	20.6	354.0	21	125497	12/4 - 18/4	SOLD SEPARATELY
6SHVL20096	132279	20.0	230	3	60	1150	H	60.3	71.5	354.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
6SHVL20046	132280	20.0	460	3	60	1150	E	28.6	34.9	248.6	21	125499	8/4 - 18/4	SOLD SEPARATELY
6SHVL20056	132281	20.0	575	3	60	1150	E	22.9	27.9	99.4	21	125497	12/4 - 18/4	SOLD SEPARATELY
6SHVL25096	132282	25.0	208	3	60	1150	G	75.2	90.8	354.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6SHVL25046	132283	25.0	460	3	60	1150	G	70.8	82.6	354.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6SHVL25056	132284	25.0	575	3	60	1150	G	35.4	41.3	177.0	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
6SHVL30096	132285	30	208	3	60	1150	E	28.3	33.0	141.6	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
6SHVL30046	132286	30.0	460	3	60	1150	E	90.8	114.9	354.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6SHVL30056	132287	30.0	575	3	60	1150	E	82.6	99.7	354.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6SHVL40036	132288	40.0	230	3	60	1150	E	41.3	49.9	177.0	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
6SHVL40046	132289	40.0	460	3	60	1150	E	33.0	39.9	141.6	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
6SHVL40056	132290	40.0	575	3	60	1150	E	110.4	131.8	476.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
								55.2	65.9	238.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
								44.2	52.7	190.4	28	130908	8/4 - 18/4	INCLUDED WITH PUMP

**SHVL Pump**

**IMPORTANT !**

Moisture and Temperature sensor leads are integral to power cord.

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

\* Cord Suffix: XC - 30 Feet, XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.

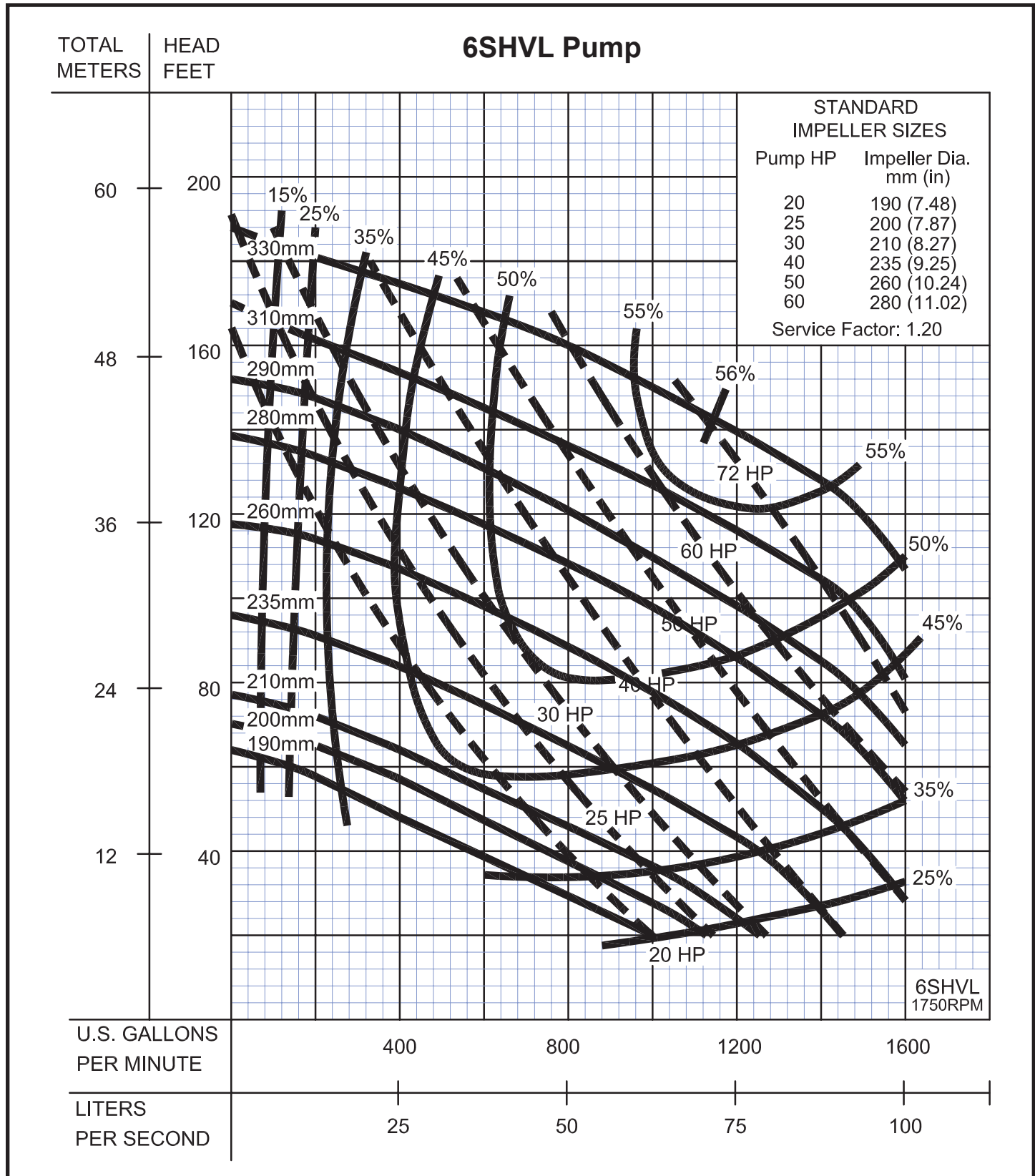
# Series 6SHV

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



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