

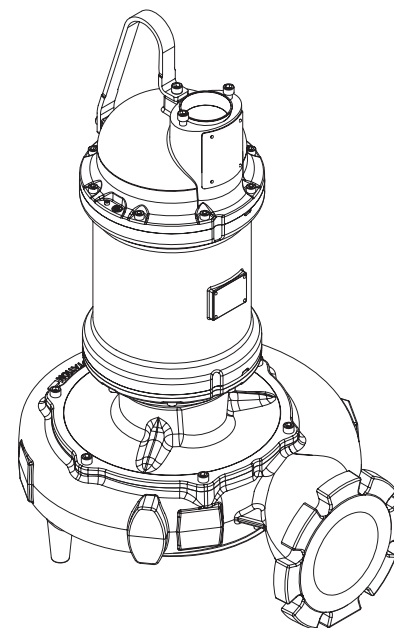
Solids Handling Submersible Pumps

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 Monovane, 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	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 connector control circuit
OPTIONAL EQUIPMENT	Seal Material, Impeller Trims, Cord Length, Leg Kit (p/n 125506)
MARKINGS	CSA, CE
WEIGHT	642 lbs (291 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>	132120A
<i>Bearing Kit PN</i>	132118A
<i>Overhaul Kit PN</i>	132119



Series: 6SHM 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 G.

DESCRIPTION:

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

Series 6SHM

28 Frame Driver

3" Spherical Solids Handling

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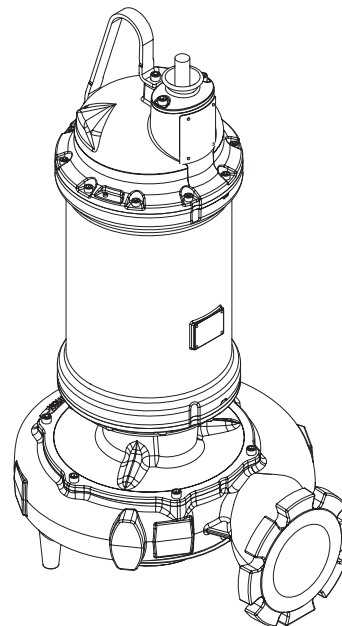
Solids Handling Submersible Pumps

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	Enclosed Monovane, 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 & 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, CE
WEIGHT	850 lbs (386 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: 6SHM 20 - 60HP, 1750RPM, 1150RPM, 60Hz



Canadian Standards Association
File No. LR16567-25



Sample Specifications: Section 0.1E Page G.

DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE
PUMP DESIGNED FOR RAW SEWAGE
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SECTION 0.1E
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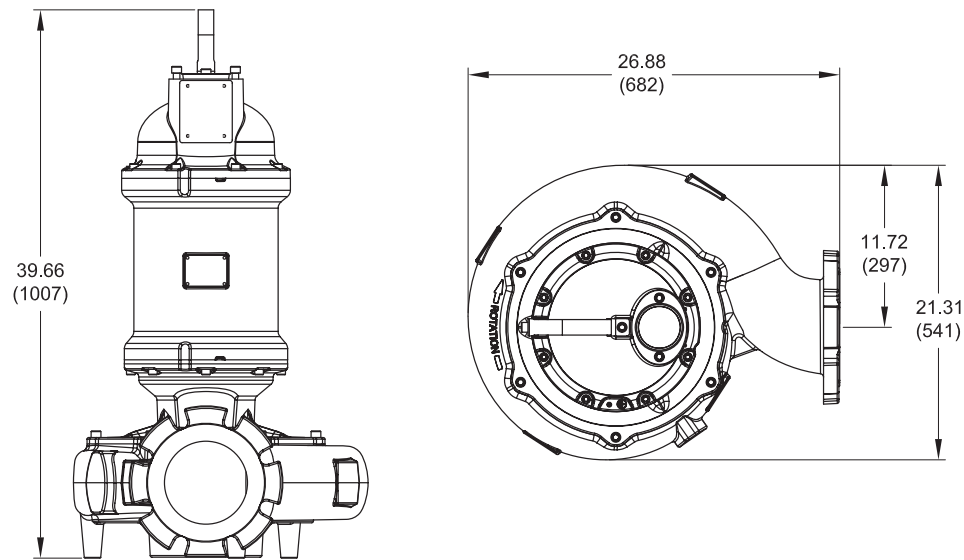
A Crane Co. Company

PUMPS & SYSTEMS

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

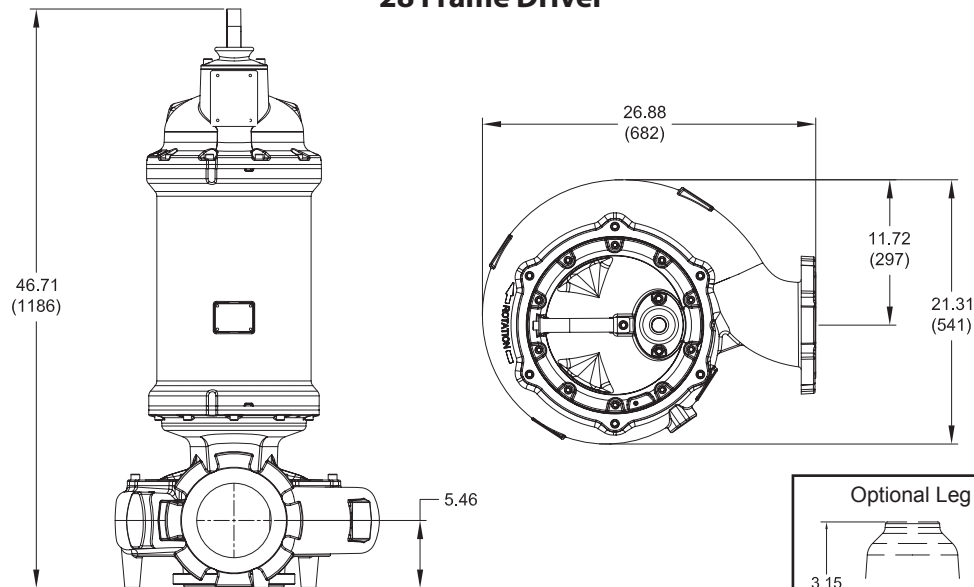
Solids Handling Submersible Pumps

21 Frame Driver

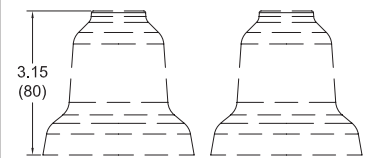


inches
(mm)

28 Frame Driver



Optional Leg Kit - p/n 125506



IMPORTANT !

- 1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE CSA 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 6SHM

3" Spherical Solids Handling



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Solids Handling Submersible Pumps

SHMN 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
6SHMN150N4	132186	15.0	208	3	60	1750	E	51.8	59.0	206.6	21	125496	8/4 - 18/4	SOLD SEPARATELY
			230			46.9		54.3	125497	12/4 - 18/4				
			460			23.4		27.2	103.3	125497		12/4 - 18/4		
6SHMN15054	132187	15.0	575	3	60	1750	E	18.7	21.7	82.6	21	125497	12/4 - 18/4	SOLD SEPARATELY
6SHMN20064	132188	20.0	208	3	60	1750	G	63.0	74.6	323.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6SHMN20084	132189	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				
6SHMN20054	132190	20.0	575	3	60	1750	J	21.5	23.9	153.5	21	125497	12/4 - 18/4	SOLD SEPARATELY
6SHMN25094	132191	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						
6SHMN25044	132192	25.0	460	3	60	1750	G	33.2	38.9	191.9	21	125499	8/4 - 18/4	SOLD SEPARATELY
6SHMN25054	132193	25.0	575	3	60	1750	G	26.6	31.1	153.5	21	125497	12/4 - 18/4	SOLD SEPARATELY
6SHMN75N6	132204	7.5	208	3	60	1150	J	24.9	29.6	137.6	21	125498	12/4 - 18/4	SOLD SEPARATELY
			230					24.0	27.6	125497				
			460					12.0	13.8	68.8				
6SHMN7556	132205	7.5	575	3	60	1150	J	9.6	11.0	55.0	21	125497	12/4 - 18/4	SOLD SEPARATELY

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

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

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
6SHMH30094	132194	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
6SHMH30044	132195	30.0	460	3	60	1750	F	38.9	45.9	191.9	21	125499	8/4 - 18/4	SOLD SEPARATELY
6SHMH30054	132196	30.0	575	3	60	1750	F	31.1	36.7	153.5	21	125499	8/4 - 18/4	SOLD SEPARATELY
6SHMH40034	132197	40.0	230	3	60	1750	E	106.0	126.4	486.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6SHMH40044	132198	40.0	460	3	60	1750	E	53.0	63.2	243.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
6SHMH40054	132199	40.0	575	3	60	1750	E	42.4	50.6	194.4	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
6SHMH50044	132179	50.0	460	3	60	1750	F	67.1	79.0	339.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
6SHMH50054	132180	50.0	575	3	60	1750	F	53.7	63.2	271.2	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
SHMH Pump														
6SHMH100N6	132206	10.0	208 230 460	3	60	1150	F	32.9 30.2 15.1	41.0 35.8 17.9	137.6 68.8	21	125498 125497	8/4 - 18/4 12/4 - 18/4	SOLD SEPARATELY
6SHMH100S6	132207	10.0	575	3	60	1150	F	12.1	14.3	55.0	21	125497	12/4 - 18/4	SOLD SEPARATELY
6SHMH150N6	132176	15.0	208 230 460	3	60	1150	H	47.0 44.1 22.0	56.8 51.4 25.7	248.6 124.3	21	125498 125497	8/4 - 18/4 12/4 - 18/4	SOLD SEPARATELY
6SHMH150S6	132181	15.0	575	3	60	1150	H	17.6	20.6	99.4	21	125497	12/4 - 18/4	SOLD SEPARATELY

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Series 6SHM

3" Spherical Solids Handling



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Solids Handling Submersible Pumps

SHMJ 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
6SHMJ50044	132200	50.0	460	3	60	1750	F	67.1	79.0	339.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
	132201	50.0	575	3	60	1750	F	53.7	63.2	271.2	28			INCLUDED WITH PUMP
	132202	60.0	460	3	60	1750	E	79.0	95.5	339.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
	132203	60.0	575	3	60	1750	E	63.2	76.4	271.2	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
6SHMJ150N6	132208	15.0	208	3	60	1150	H	47.0	56.8	248.6	21	125498	8/4 - 18/4	SOLD SEPARATELY
			44.1		51.4			125497	12/4 - 18/4					
			22.0		25.7			125497	12/4 - 18/4					
	6SHMJ15056	132209	15.0	575	3	60	1150	H	17.6	20.6	99.4	21	125497	12/4 - 18/4
6SHMJ20096	132210	20.0	208	3	60	1150	H	60.3	71.5	354.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
			230			57.2		69.8						
6SHMJ20046	132211	20.0	460	3	60	1150	E	28.6	34.9	248.6	21	125499	8/4 - 18/4	SOLD SEPARATELY
6SHMJ20056	132212	20.0	575	3	60	1150	E	22.9	27.9	99.4	21	125497	12/4 - 18/4	SOLD SEPARATELY
			208		75.2	90.8								
6SHMJ25096	132213	25.0	230	3	60	1150	G	70.8	82.6	354.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
6SHMJ25046	132214	25.0	460	3	60	1150	G	35.4	41.3	177.0	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
6SHMJ25056	132215	25.0	575	3	60	1150	G	28.3	33.0	141.6	28	130907	8/4 - 18/4	INCLUDED WITH PUMP

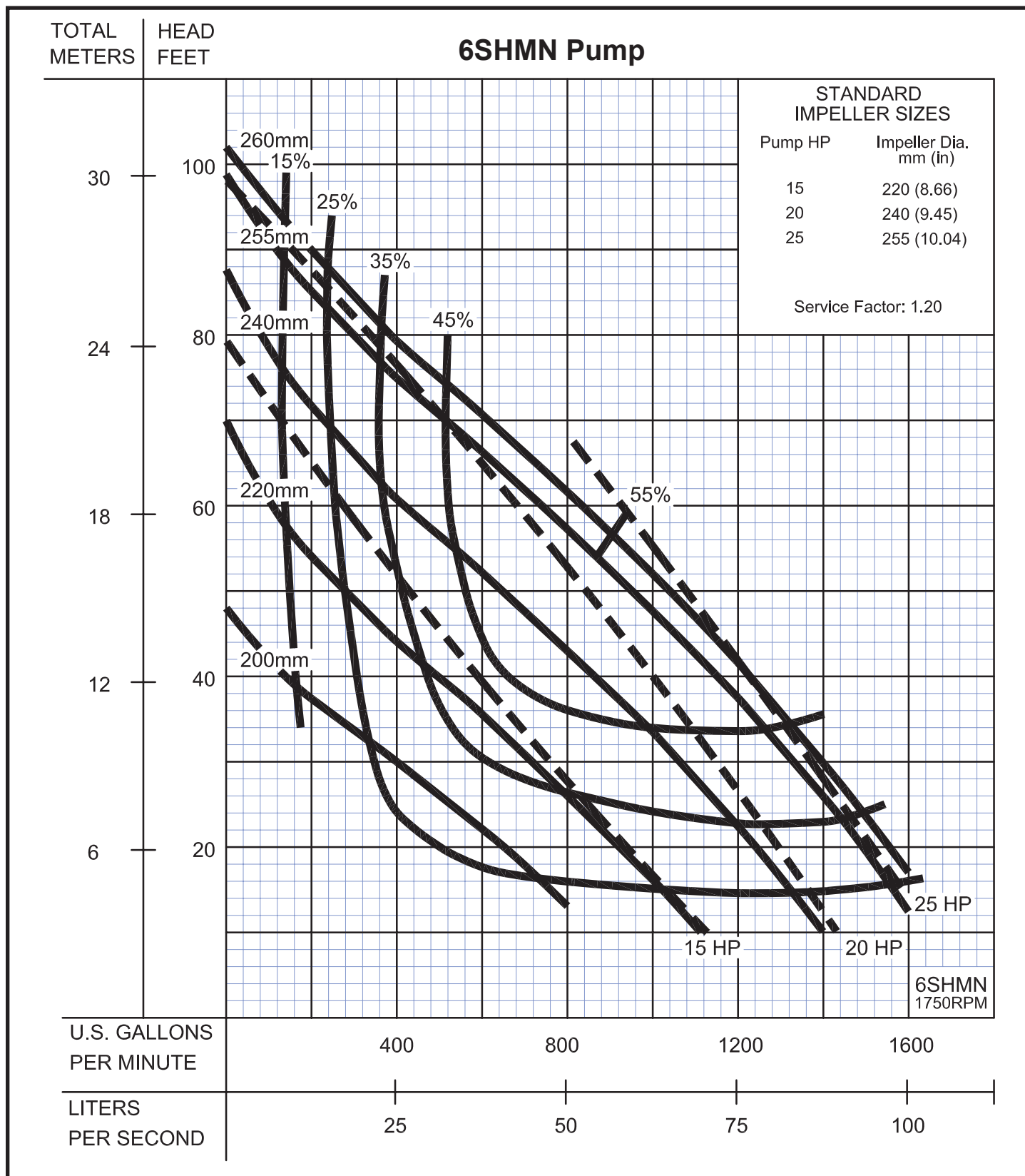
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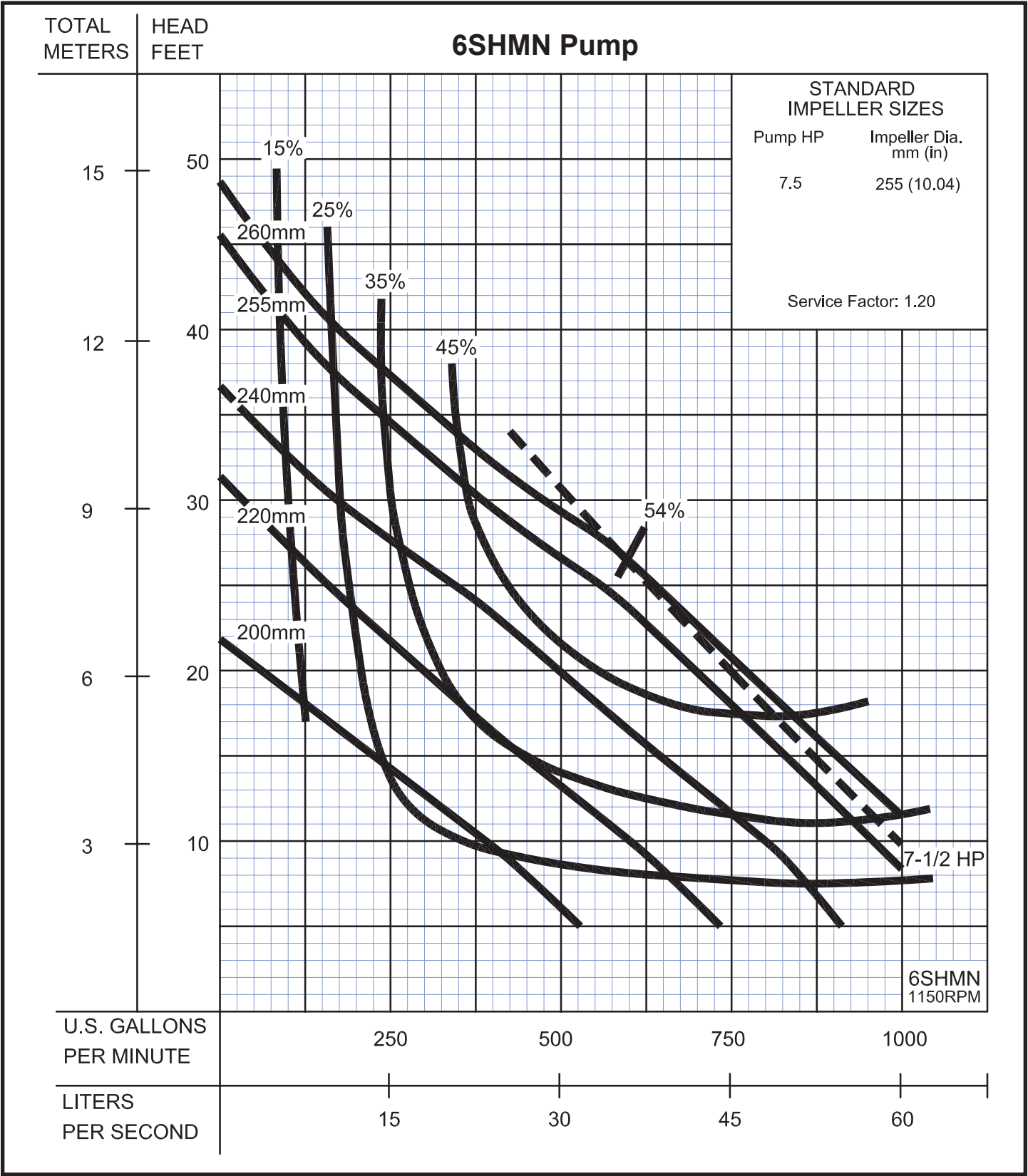
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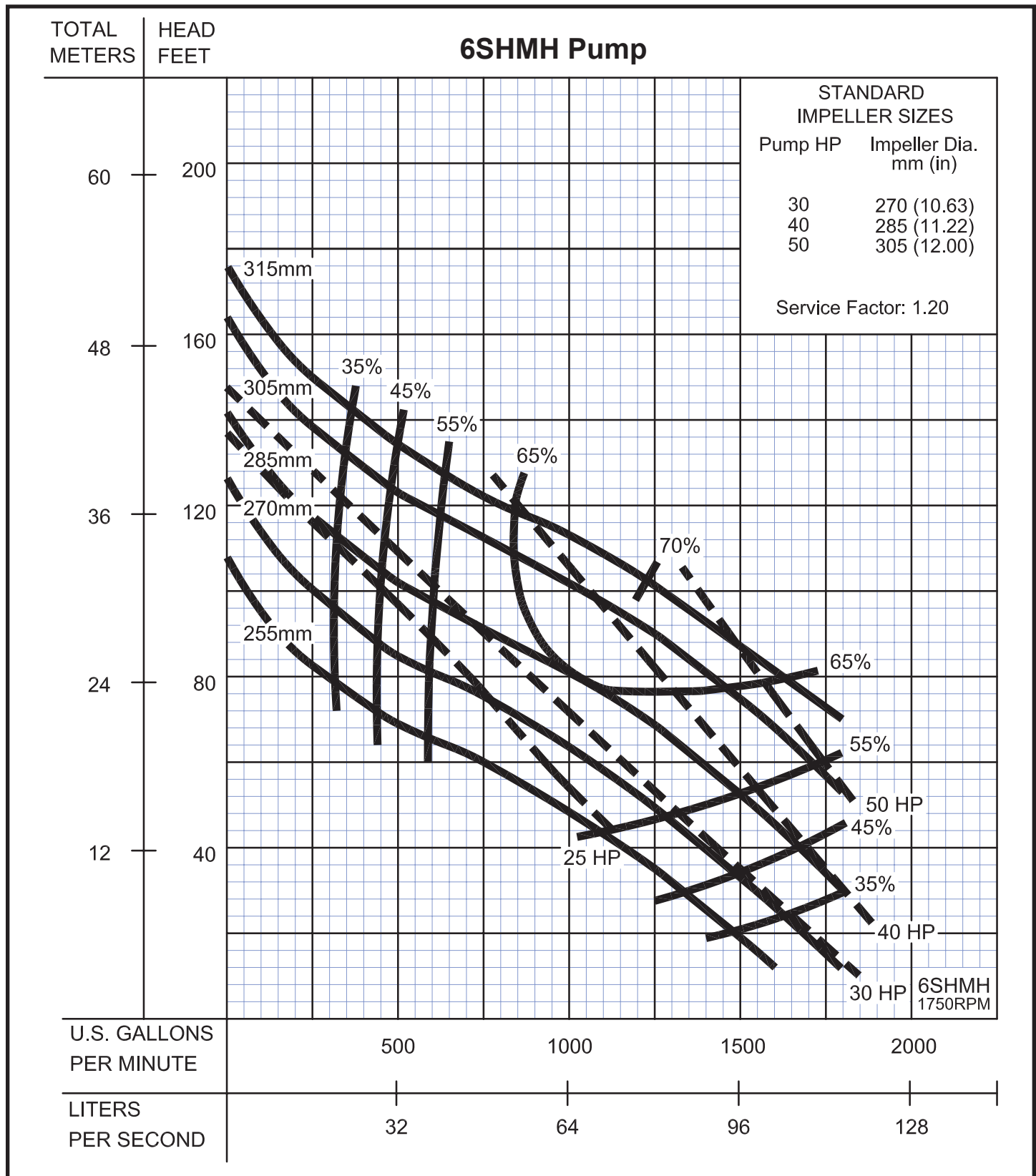
Series 6SHM

Performance Curve
7.5HP, 1150RPM, 60Hz

Solids Handling Submersible Pumps



Solids Handling Submersible Pumps



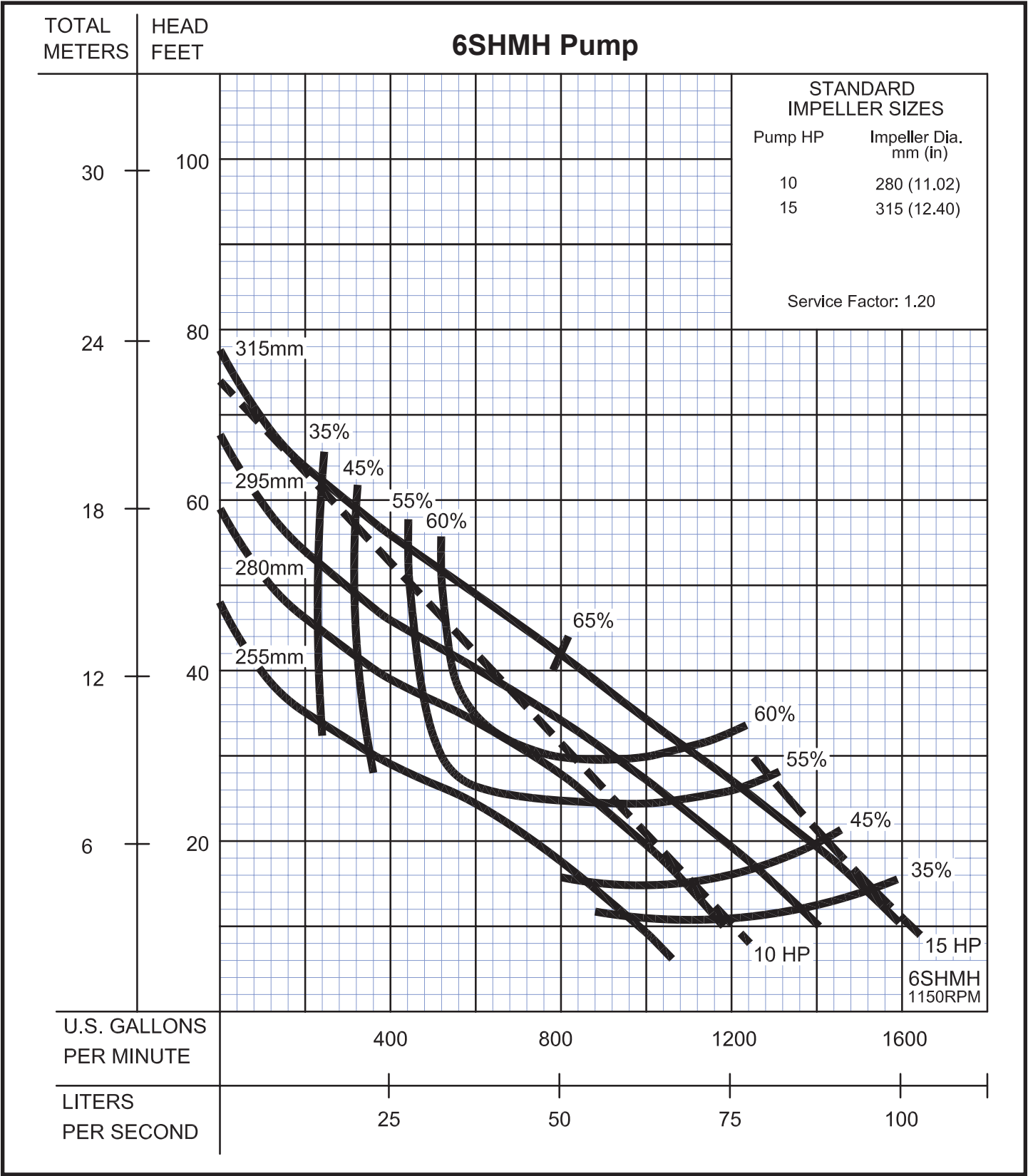
Series 6SHM

Performance Curve
10 - 15HP, 1150RPM, 60Hz

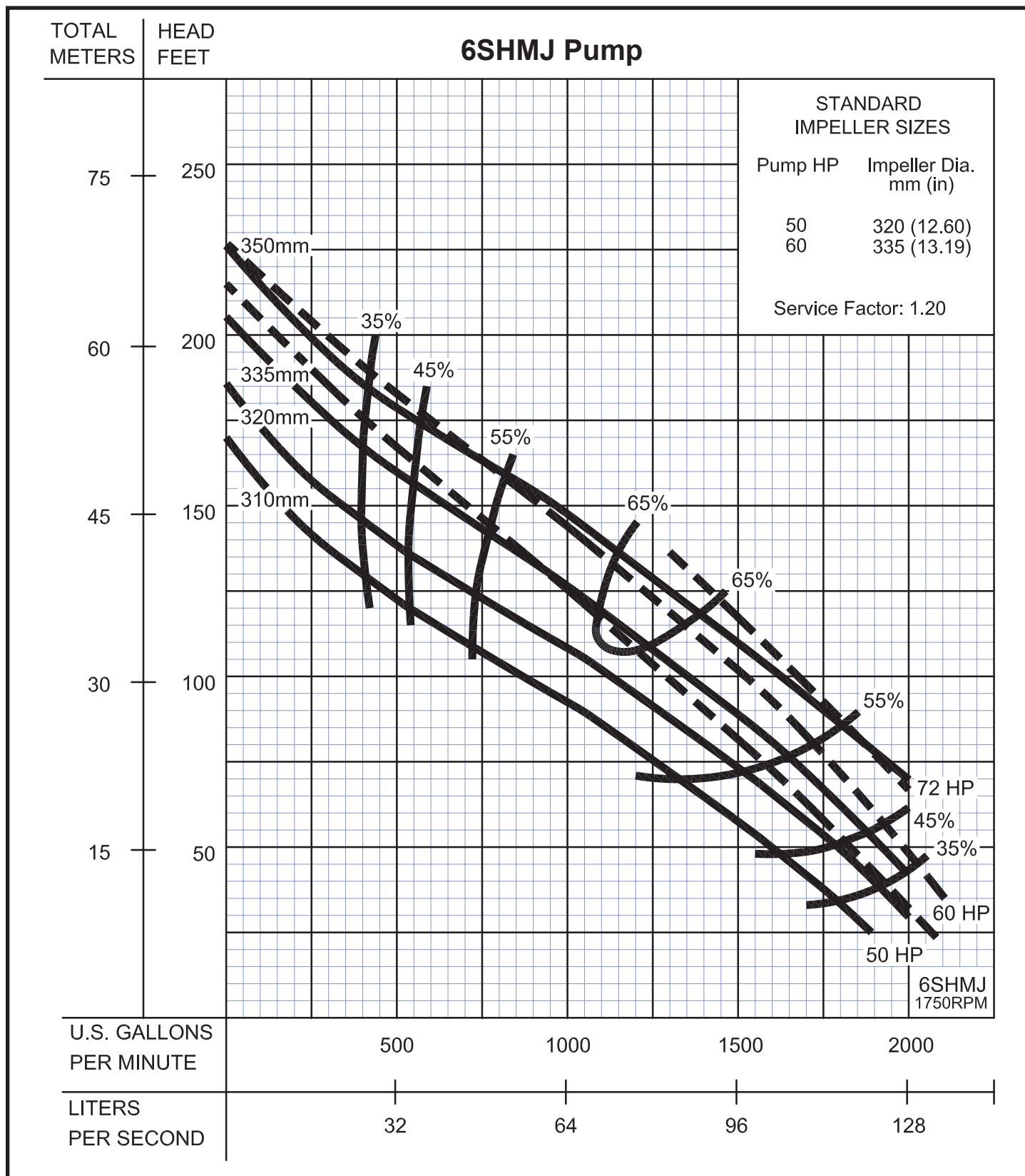


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Series 6SHM

Performance Curve
15 - 25HP, 1150RPM, 60Hz

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