

Solids Handling Submersible Pumps

Specifications:

DISCHARGE	4", 125 lb. Horizontal Flange Slotted to accommodate 100mm 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 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 NEMA L - Single Phase Torque Curve Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
<i>Insulation</i>	Class H Varnish & Magnet Wire
SINGLE PHASE	Dual voltage 208-230 5HP. Requires Overload Protection to be Included in control panel.
THREE PHASE	Tri-voltage 208-230/460V 3 thru 10HP & 575V 3 thru 10HP. 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	228 lbs (104 Kg)
NOISE EMISSION MAX	In-Air 65 dB-A
SUBMERGENCE	Max Depth 66ft (20m)

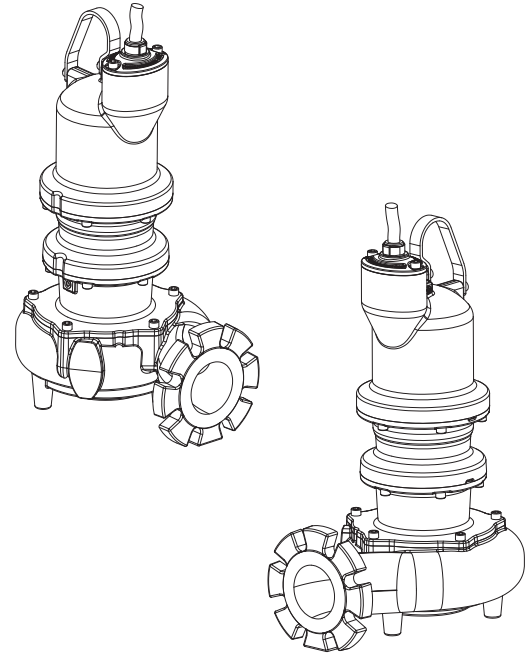
RECOMMENDED:

<i>Accessories</i>	Break Away Fitting (BAF) Check Valve Control Panel
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Seal & Gasket Kit PN 133040

Bearing Kit PN 133046

Overhaul Kit PN 133054



Series: 4SHD 3 - 10HP, 1750RPM, 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 0.1C Page H.

DESCRIPTION:

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

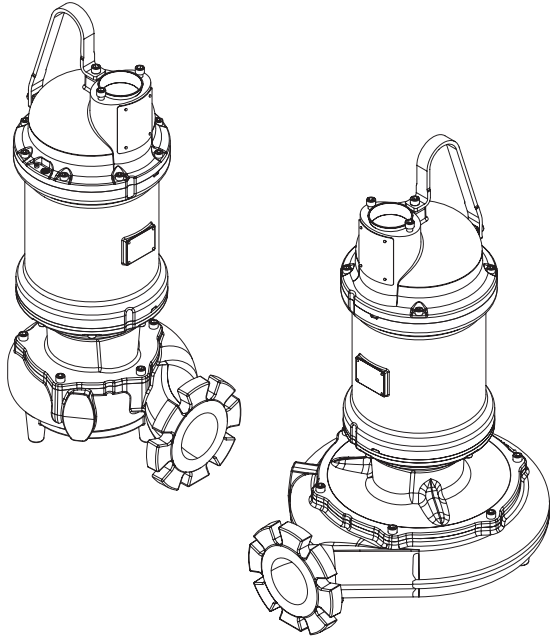
Series 4SHD

21 Frame Driver
3" Spherical Solids Handling

Solids Handling Submersible Pumps

Specifications:

DISCHARGE	4", 125 lb. Horizontal Flange Slotted to accommodate 100mm 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 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: Design	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 15 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	634 lbs (288 Kg)
NOISE EMISSION MAX	In-Air 73 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: 4SHD 15 - 30HP, 1750RPM, 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 0.1C Page H.

DESCRIPTION:

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

SECTION NEW
PAGE 32
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A Crane Co. Company

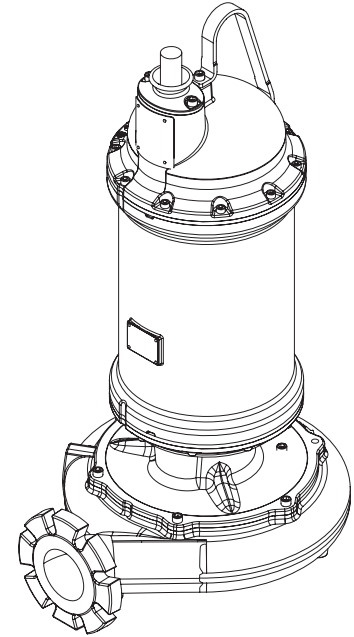
PUMPS & SYSTEMS

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

Solids Handling Submersible Pumps

Specifications:

DISCHARGE	4", 125 lb. Horizontal Flange Slotted to accommodate 100mm 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 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	50 ft. (12.1m) Cord. Dual Pressure Grommet for Sealing & Stain Relief
POWER CORD	CSA Certified Submersible Power Cable 2000V
SPEED	1750 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: Design	
	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	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	842 lbs (382 Kg)
NOISE EMISSION MAX	In-Air 73 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: 4SHD 20 - 60HP, 1750RPM, 60Hz



Canadian Standards Association
File No. LR16567-25



Sample Specifications: Section 0.1C Page H.

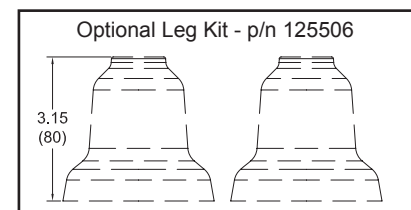
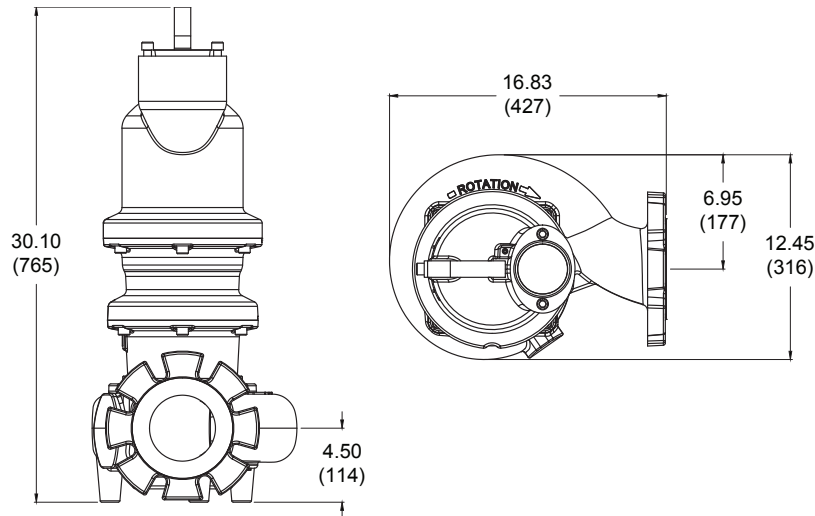
DESCRIPTION:

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

Solids Handling Submersible Pumps

18 Frame Driver

inches
(mm)

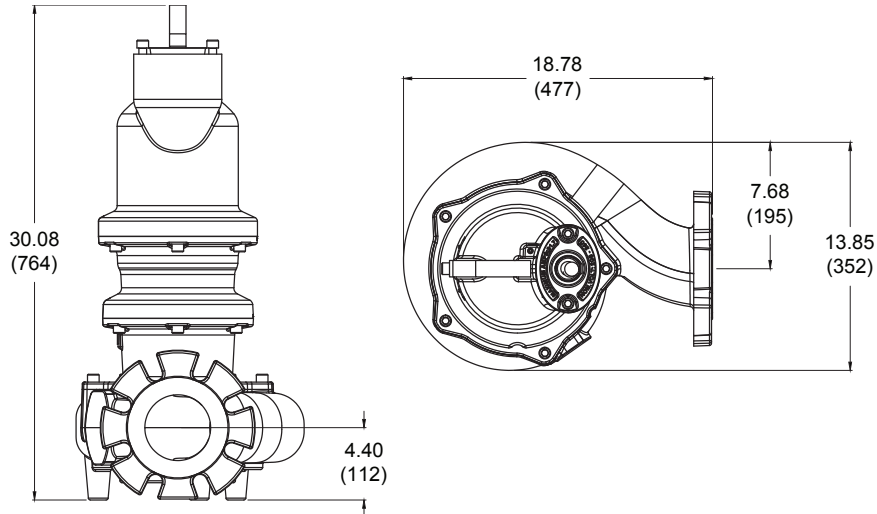


IMPORTANT !

- 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.

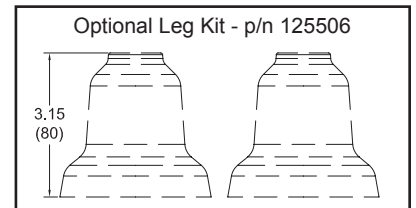
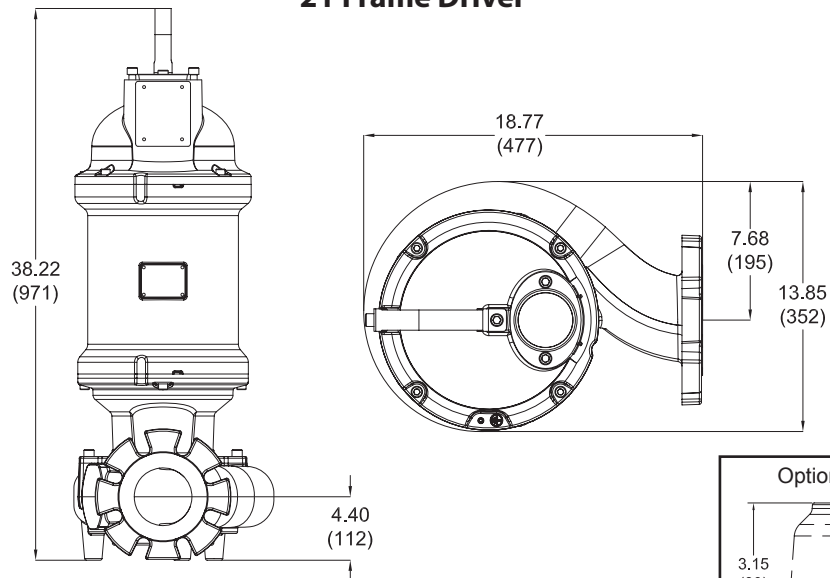
Solids Handling Submersible Pumps

18 Frame Driver



inches
(mm)

21 Frame Driver



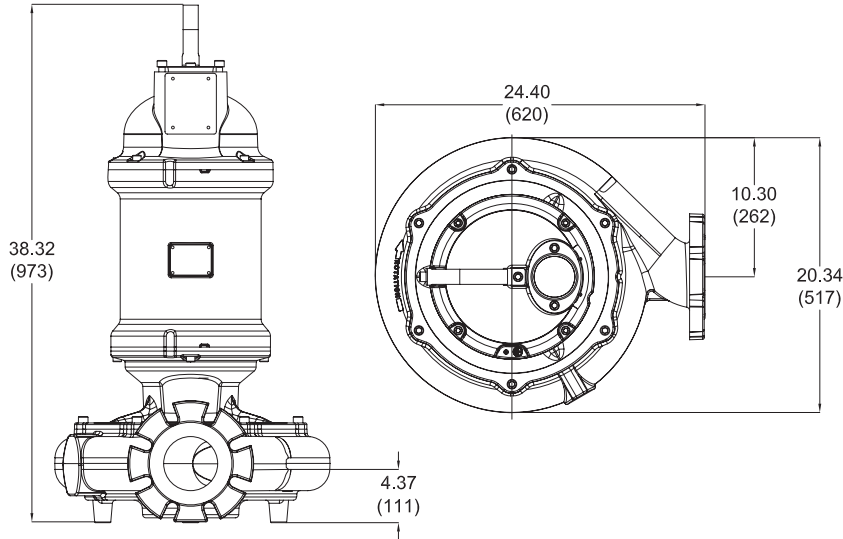
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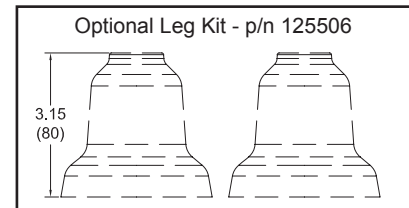
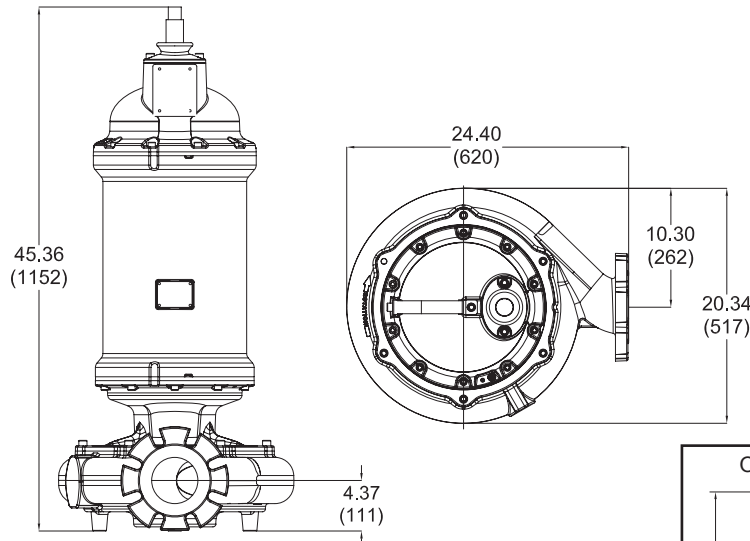
Solids Handling Submersible Pumps

21 Frame Driver

inches
(mm)



28 Frame Driver



IMPORTANT !

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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	
SHDF Pump	4SHDF3074	3.0	208	1	60	1750	D	14.9	18.5	59.1	18	125496	12/4 - 18/4	SOLD SEPARATELY	
			230					16.5	66.3						
	4SHDF30N4	3.0	3	208	3	60	1750	K	9.7	11.4	58.2 / 65.8	18	125496	12/4 - 18/4	SOLD SEPARATELY
									230	10.6					
									460	5.3	32.9				
									460	4.6					
	4SHDF3054	3.0	3	575	3	60	1750	N	4.5	4.9	37.0	18	125497	12/4 - 18/4	SOLD SEPARATELY
				208					35.6	99.9 / 112.4					
	4SHDF5074	5.0	3	208	1	60	1750	D	25.4	30.2		18	125498	8/4 - 18/4	SOLD SEPARATELY
				230					18.7						
	4SHDF50N4	5.0	3	208	3	60	1750	J	15.8	17.2	82.4 / 92.4	18	125496	12/4 - 18/4	SOLD SEPARATELY
									230	17.2					
460									8.6	46.2					
460									7.5						
4SHDF5054	5.0	3	575	3	60	1750	J	6.0	6.9	37.0	18	125497	12/4 - 18/4	SOLD SEPARATELY	
			208					28.5	105.9 /						
4SHDF75N4	7.5	3	208	3	60	1750	H	23.7	27.2	123.6	18	125496	12/4 - 18/4	SOLD SEPARATELY	
			230					27.2							
			460					13.6	61.8						
			460					11.9							
4SHDF7554	7.5	3	575	3	60	1750	H	9.5	10.9	49.4	18	125497	12/4 - 18/4	SOLD SEPARATELY	
			208					41.4	105.9 /						
4SHDF100N4	10.0	3	208	3	60	1750	E	29.8	35.6	123.6	18	125498	8/4 - 18/4	SOLD SEPARATELY	
			230					17.8	61.8						
			460					14.9							
			460					14.9							
4SHDF10054	10.0	3	575	3	60	1750	E	11.9	14.2	49.4	18	125497	12/4 - 18/4	SOLD SEPARATELY	
			208					35.6	99.9						
4SHDG5074	5.0	3	208	1	60	1750	D	27.2	30.2	112.4	18	125498	8/4 - 18/4	SOLD SEPARATELY	
			230					30.2							
4SHDG50N4	5.0	3	208	3	60	1750	J	15.8	18.7	82.4 / 92.4	18	125496	12/4 - 18/4	SOLD SEPARATELY	
			230					17.2							
			460					8.6	46.2						
			460					7.5							
4SHDG5054	5.0	3	575	3	60	1750	J	6.0	6.9	37.0	18	125497	12/4 - 18/4	SOLD SEPARATELY	
			208					28.5	105.9 /						
4SHDG75N4	7.5	3	208	3	60	1750	H	23.7	27.2	123.6	18	125496	12/4 - 18/4	SOLD SEPARATELY	
			230					13.6	61.8						
			460					10.9	49.4						
			460					9.5							
4SHDG100N4	10.0	3	208	3	60	1750	E	32.2	41.4	105.9 /	18	125498	8/4 - 18/4	SOLD SEPARATELY	
			230					35.6	123.6						
			460					17.8	61.8						
			460					14.9							
4SHDG10054	10.0	3	575	3	60	1750	E	11.9	14.2	49.4	18	125497	12/4 - 18/4	SOLD SEPARATELY	
			208					59.0	206.6						
4SHDG150N4	15.0	3	208	3	60	1750	E	46.9	54.3	103.3	21	125498	8/4 - 18/4	SOLD SEPARATELY	
			230					27.2							
4SHDG15054	15.0	3	208	3	60	1750	E	18.7	21.7	82.6	21	125497	12/4 - 18/4	SOLD SEPARATELY	
			230					21.7							
			460					59.0	383.9						
			460					26.9							
4SHDG20084	20.0	3	575	3	60	1750	J	21.5	23.9	153.5	21	125497	12/4 - 18/4	SOLD SEPARATELY	
			208					23.9							
4SHDG20054	20.0	3	575	3	60	1750	J	21.5	23.9	153.5	21	125497	12/4 - 18/4	SOLD SEPARATELY	
			208					23.9							

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 4SHD

3" Spherical Solids Handling



www.cranepumps.com

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
4SHD 20064	130981	20	208	3	60	1750	G	63.0	74.6	323.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
4SHD 20084	130982	20	230	3	60	1750	J	53.7	59.0	383.9	21	125498	8/4 - 18/4	SOLD SEPARATELY
			26.9					29.9						
4SHD 20054	130983	20	575	3	60	1750	J	21.5	23.9	153.5	21	125497	12/4 - 18/4	SOLD SEPARATELY
4SHD 25094	130596	25	208	3	60	1750	G	77.8	93.4	359.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
			230					82.3						
4SHD 25044	130597	25	460	3	60	1750	G	33.2	38.9	191.9	21	125499	8/4 - 18/4	SOLD SEPARATELY
4SHD 25054	130598	25	575	3	60	1750	G	26.6	31.1	153.5	21	125497	12/4 - 18/4	SOLD SEPARATELY
4SHD 30094	130599	30	208	3	60	1750	E	93.4	116.9	359.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
			230					98.7						
4SHD 30044	130600	30	460	3	60	1750	F	38.9	45.9	191.9	21	125499	8/4 - 18/4	SOLD SEPARATELY
4SHD 30054	130601	30	575	3	60	1750	F	31.1	36.7	153.5	21	125499	8/4 - 18/4	SOLD SEPARATELY
4SHD 40034	130602	40	230	3	60	1750	E	106.0	126.4	486.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
4SHD 40044	130603	40	460	3	60	1750	E	53.0	63.2	243.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
4SHD 40054	130604	40	575	3	60	1750	E	42.4	50.6	194.4	28	130908	8/4 - 18/4	INCLUDED WITH PUMP
4SHD 50044	130605	50	460	3	60	1750	F	67.1	79.0	339.0	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
4SHD 50054	130606	50	575	3	60	1750	F	53.7	63.2	271.2	28	130907	6/4 - 18/4	INCLUDED WITH PUMP
4SHD 60044	130607	60	460	3	60	1750	E	79.0	95.5	339.0	28	130906	2/4 - 18/4	INCLUDED WITH PUMP
4SHD 60054	130608	60	575	3	60	1750	E	63.2	76.4	271.2	28	130907	6/4 - 18/4	INCLUDED WITH PUMP

SHDI Pump

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

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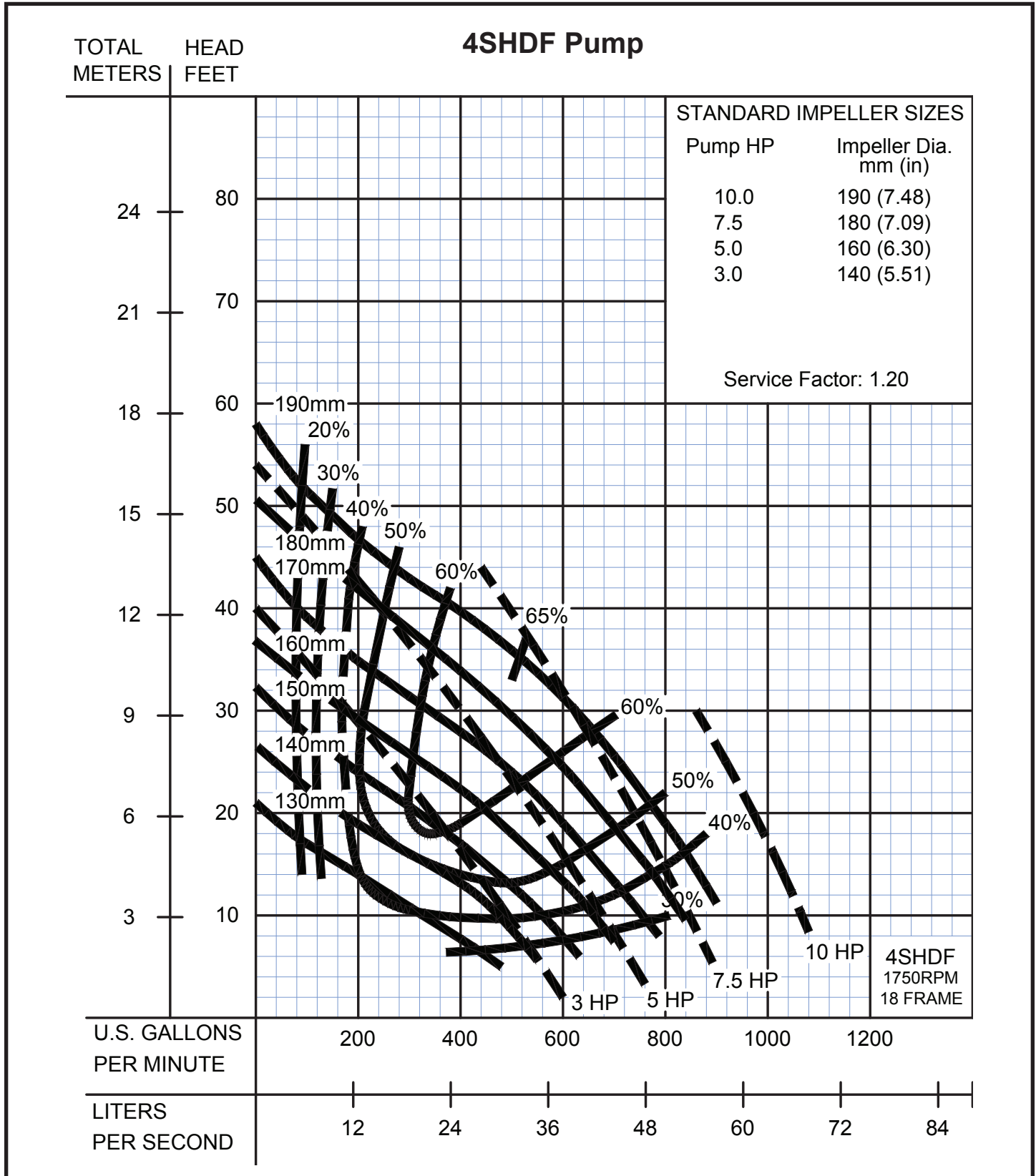


A Crane Co. Company

PUMPS & SYSTEMS

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

Solids Handling Submersible Pumps



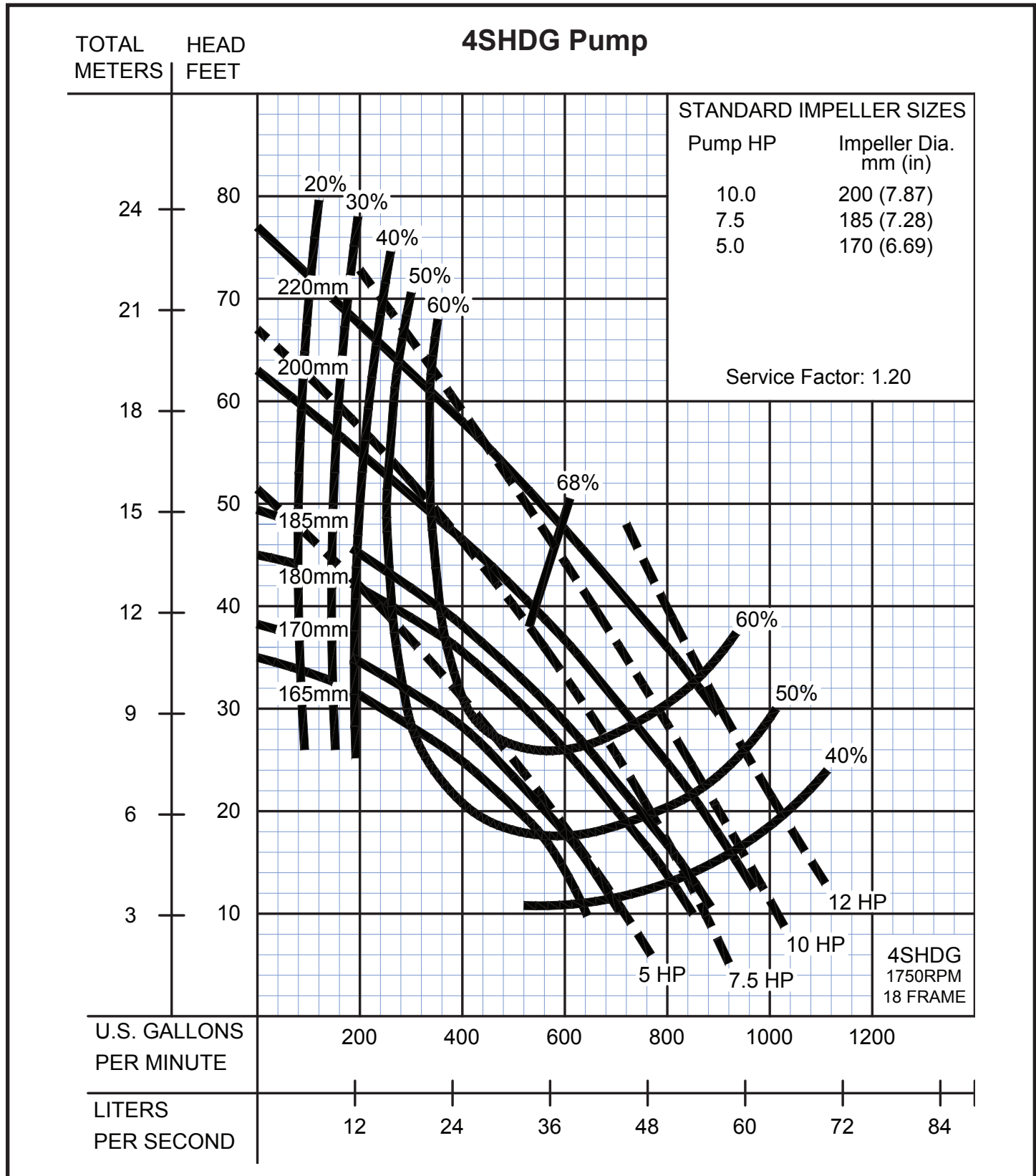
Series 4SHD

Performance Curve
5 - 10HP, 1750RPM, 60Hz, 18 Frame

BARNES®

www.cranepumps.com

Solids Handling Submersible Pumps



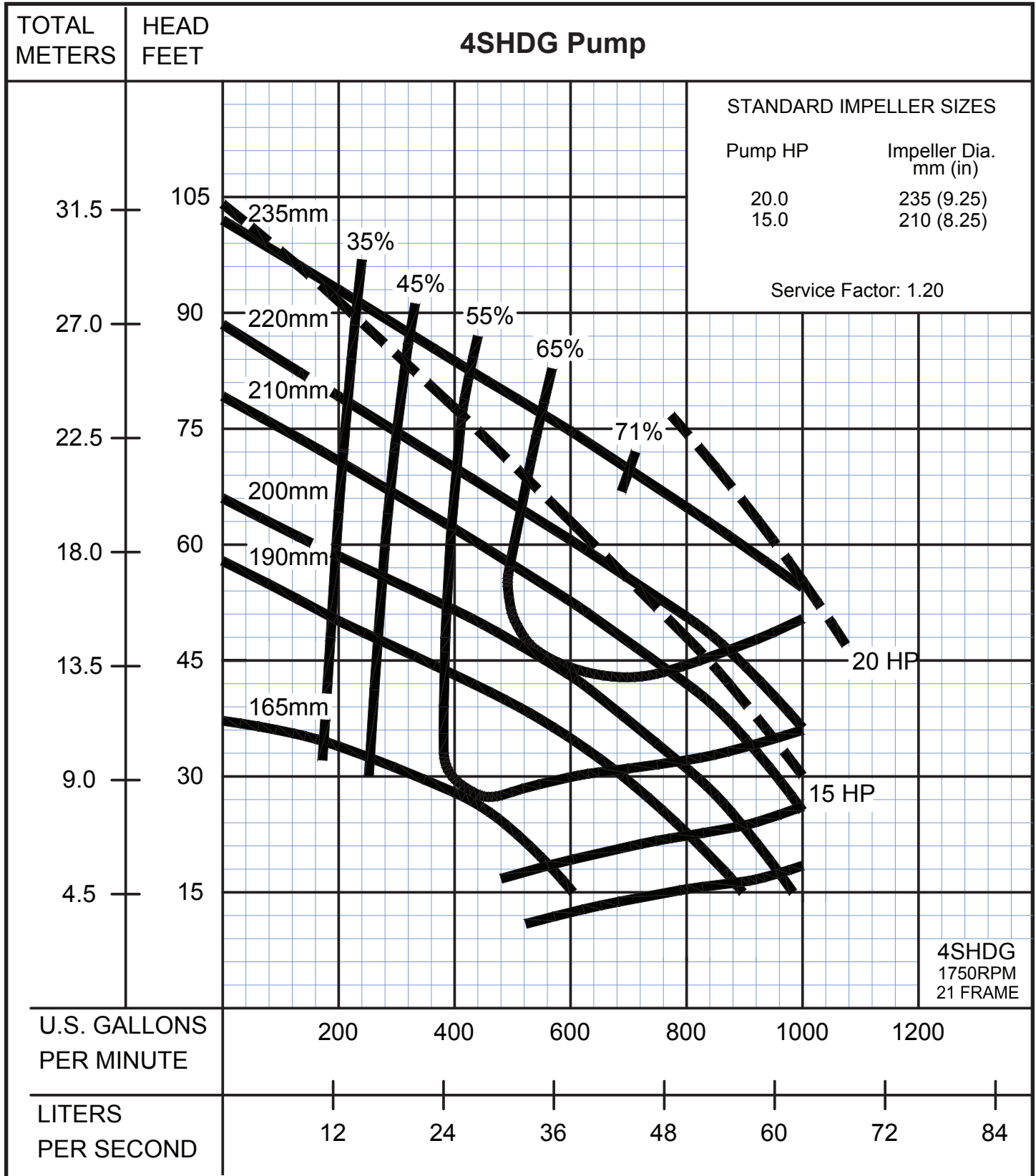
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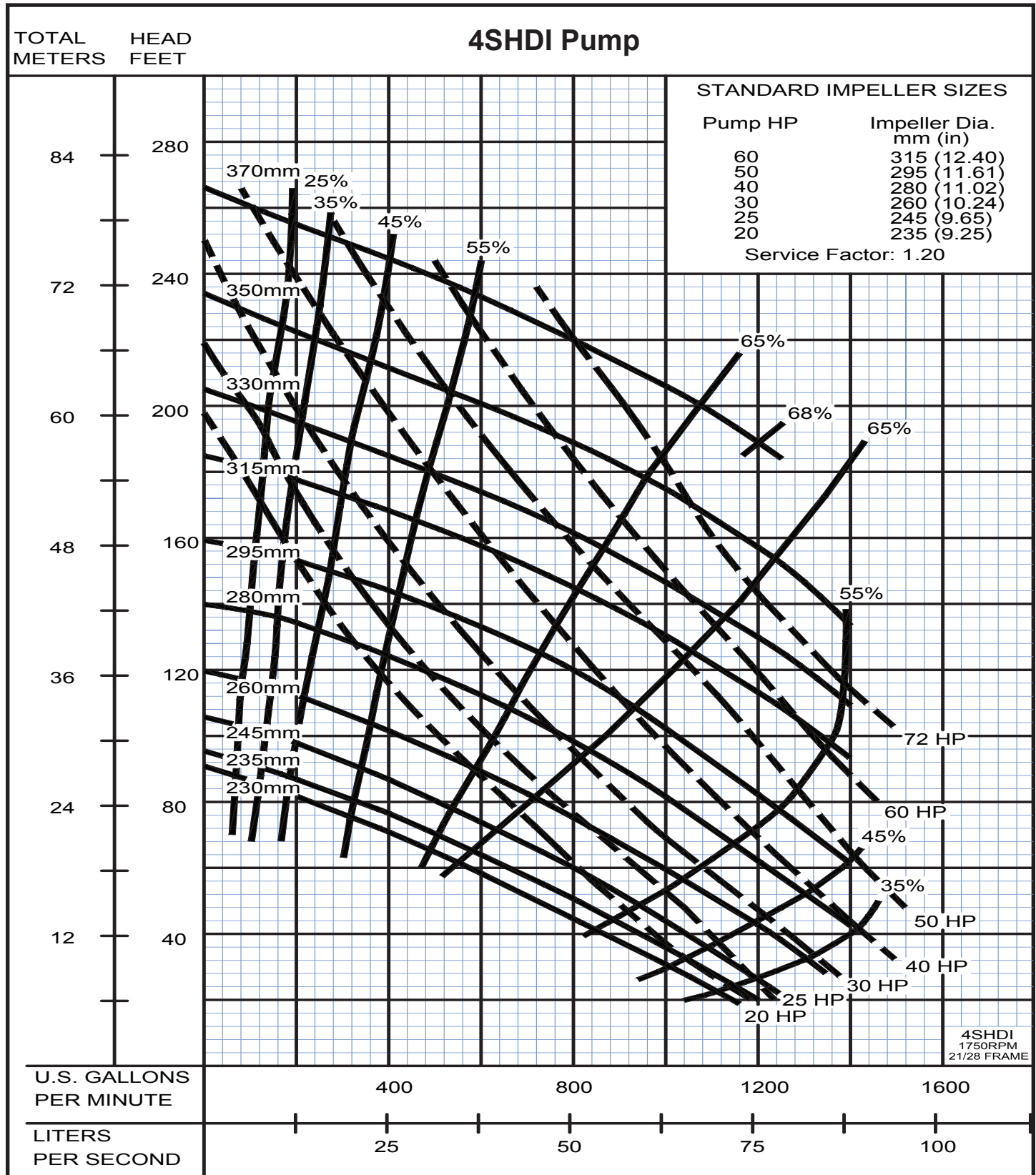
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