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Solids Handling Electric Motor Driven

SF Series

VARIOUS PATENTS APPLY

Submersible Pump **Models** SF6B & SF6B-X Size 6"



X-PROOF MOTORS FOR CLASS I, DIV. 1, GROUPS C&D LOCATIONS (X-Proof Version Only)

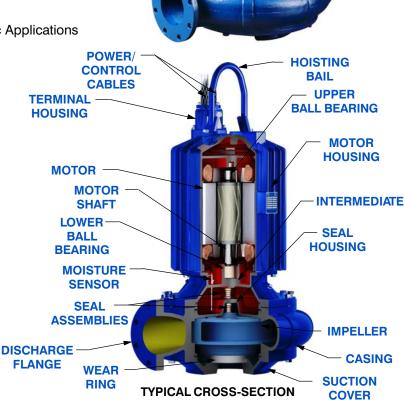
The Gorman-Rupp SF Series® channel pumps provide superior pumping efficiency while maintaining a 3-inch (76,2 mm) spherical solids passage.

Key Features:

- NEMA premium efficiency motors
- Externally adjustable face clearance
- Press-fit motor with finned motor housing provides superior motor cooling, even in a submersed state, resulting in increased motor life
- NEMA Class H motor insulation
- Direct wired power cable leads
- Standard moisture detection in both the seal and motor chambers
- Factory Mutual (FM) Approved for Class I, Division I, Group C and D Haz Loc Applications (X-Proof Model)

Optional Accessories:

- G-R Hard Iron Impeller
- Control Panel (Consult SF Series Motor Data Reference for Customer-Supplied Control Panel)
- Submersible Transducer or Ball Type Float Switches
- Slide Rail Installation Components
 - Guide shoe W/Rubber Seal
 - Base Elbow and Rail Brackets
- Trash Stand Installation Components
 - Trash Stand
 - Discharge Elbow





GORMAN-RUPP PUMPS

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PUMP DETAILS						
	Pump M	odel	SF6B & SF6B-X			
Agency Approvals			Consult Factory			
Discharge Flange			6" ANSI W/ Flat Face			
Impeller Type / Material			Two Vane Enclosed/ Ductile Iron			
Wear Ring Material			Ductile Iron			
Spherical Solids Handling			3" (76 mm) Non-Deformable Diameter			
Motor Housing (Including Seal						
Plate and Intermediate)			Gray Iron 30			
Pump Casing			Ductile Iron			
Motor Shaft			17-4 PH Stainless Steel			
O-Rings		Buna-N and Fluorocarbon (DuPont Viton® or Equivalent)				
Bea	arings:	Upper			rmanent Lubrication	,
	ubrication	Lower		_	ermanent Lubrication	
External Hardware		303/304 Stainless Steel				
External Surface Protection			Epoxy Paint			
Seal Type		Tandem, Mechanical, Oil Lubricated Upper, Self-Lubricated Lower				
Sealin	Sealing Faces: Upper		Carbon/Ni-Resist			
	Rotating/Stationary Lower		Silicon Carbide/Silicon Carbide			
			Buna-N Upper, Fluorocarbon (DuPont Viton® or Equivalent) Lower			
M	Seal Elastomers Max. Liquid Temperature			104°F (40°C)		
IVI	ax. Liquid ic	inperature	MOTOR DETAILS			
	Spee	d		60 Hz, 1750 RPM		
Motor Design			Inverter-Duty Rated, Air-Filled Enclosure, Squirrel Cage, Induction Start			
- N	Motor Design Motor Efficiency Rating			NEMA Premium Efficiency (IEC IE3)		
Insulation			Class H, Rated 356°F (180°C)			
Max. Submergence			65 Feet (20 Meters)			
Min. Submergence			1/2 Motor Covered			
Max. Starts per Hour			10			
Max. Rated Output Power			75.0 HP (55,9 kW)			
i i			70.0111 (00,0 KW)			
Amp Draw @ Max. Rated Power: Full Load/ Locked Rotor NEMA Motor Code						
		460V/3P	86.0/542.0			
		575V/3P	69.0/434.0			
		G				
Service Factor			1.15			
Efficiency: 100%/75%/50% Load			94%/96%/94%			
Power Factor: 100%/75%/50% Load			0.85/0.81/0.73			
Field Connection			Across-the-Line			
Moisture Sensor			Single Probe Monitoring Both Seal and Motor Chambers			
Thermal Overload			One Thermostat per Phase, Self-Resetting			
	Malla.			CABLE DETAILS		
	Voltage No. Cables/Conductors per			460V	575	
Power			(0) 1 4)4	1/6	1/6	
Cable	Gauge Type/Material		(3) 1 AV	/G PWR & (3) 6 AWG GND/GC		3) 6 AWG GND/GC
	Nominal Cable O.D.			1.51" (39.4 mm)	GGC/0	
Control Cable	No. Cables/Conductors per		1.51" (38,4 mm) 1.51" (38,4 mm) 1/4			
	Gauge		14 AWG			
	Type/Material		SOOW/CPE			
	Nominal Cable O.D.		0.61" (15,5 mm)			
	Lengt		32 Feet (10 Meters) Standard, 164 Feet (50 Meters) Maximum			
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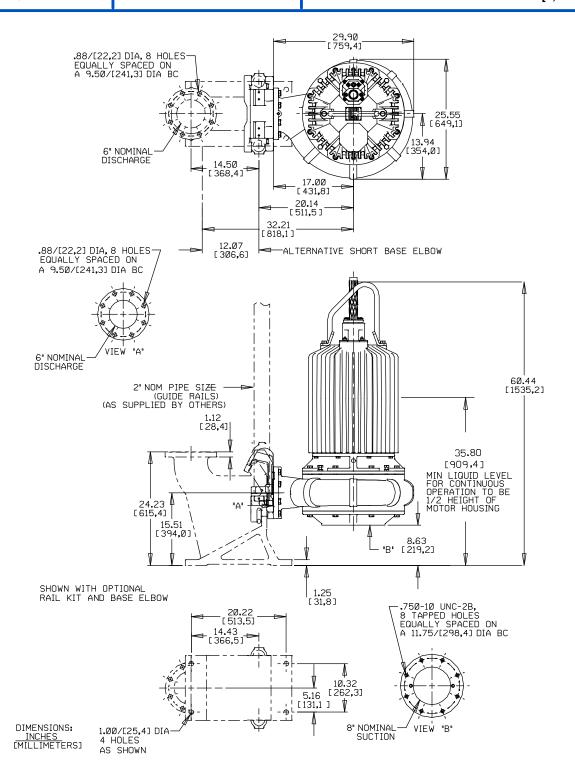
Specification Data

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MODEL SF6B & SF6B-X SLIDE RAIL VERSION APPROXIMATE DIMENSIONS and WEIGHTS **NET WT:** (pump only) (comb. cable wt. per meter [3.2 ft.]) SHIPPING WT: (pump only) **CRATE SIZE:**

1541 LBS. 3.4 LBS. 1641 LBS. 43.5 CU. FT. [1,23 CU. M.]

[699 KG.] [1,54 KG.] [744,3 KG.]





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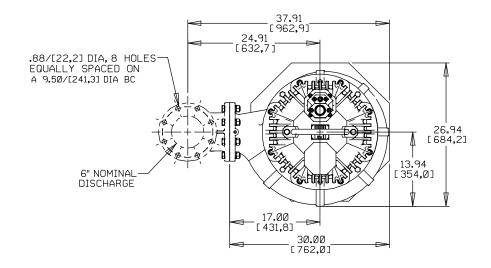
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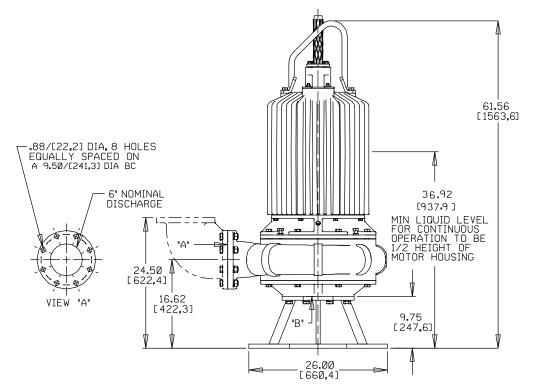
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MODEL SF6B & SF6B-X TRASH VERSION **APPROXIMATE DIMENSIONS and WEIGHTS** **NET WT:** (pump only) (comb. cable wt. per meter [3.2 ft.]) SHIPPING WT: (pump only) CRATE SIZE:

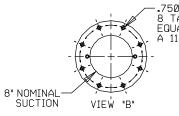
1607 LBS. 3.4 LBS. 1707 LBS.

[728,9 KG.] [1,54 KG.] [774,3 KG.] 49.2 CU. FT. [1,39 CU. M.]





PUMP WITH TRASH STAND SHOWN WITH OPTIONAL DISCHARGE ELBOW



-,750-10 UNC-2B, 8 TAPPED HOLES EQUALLY SPACED ON A 11.75/[298,4] DIA BC

DIMENSIONS: <u>INCHES</u> [MILLIMETERS]

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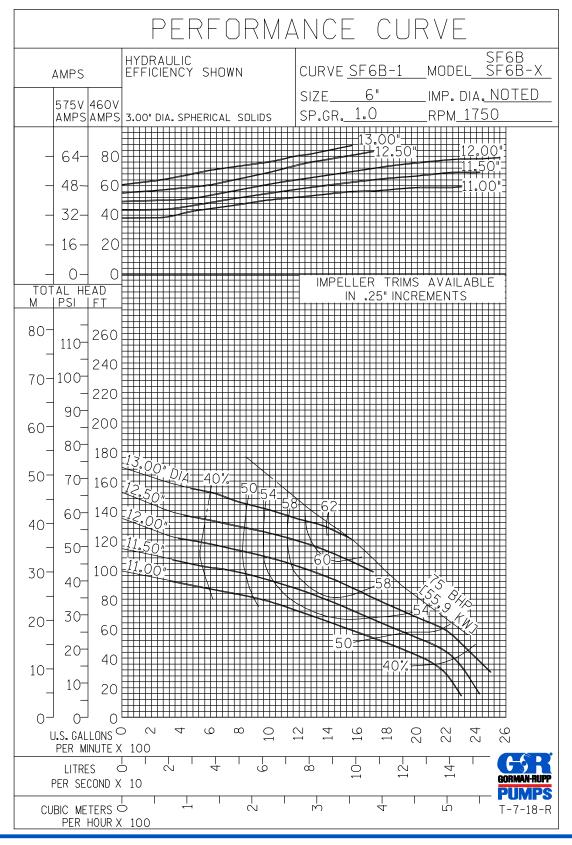
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