SF Series

VARIOUS PATENTS APPLY

Sec. 133

PAGE 220

SEPTEMBER 2022

Solids Handling Electric Motor Driven Submersible Pump

Models

SF4C & SF4C-X

Size 4"



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

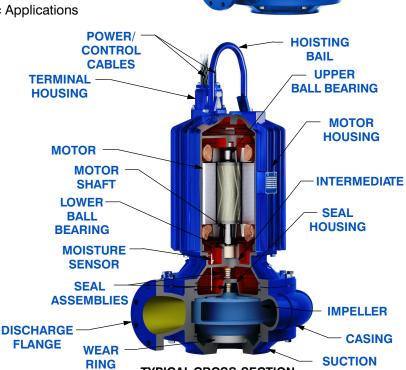
The Gorman-Rupp SF Series® channel pumps provide superior pumping efficiency while maintaining a 3-inch (76,2 mm) spherical solids passage.

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 <u>SF Series Motor</u> <u>Data Reference</u> 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



TYPICAL CROSS-SECTION



GORMAN-RUPP PUMPS

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COVER

Mat	erials an	d Technical Da	ata			Sec. 133	PAGE 220.1 SEPTEMBER 2022	
PUMP DETAILS								
	Pump M	lodel	SF4C SF4C-X					
Agency Approvals			Consult Factory					
Discharge Flange			4" 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)					
Bearings:		Upper	Single Row Ball/Permanent Lubrication					
Type/Lubrication		Lower		Double Row Ball/Permanent Lubrication				
				303/304 Stainless Steel				
External Hardware			Epoxy Paint					
External Surface Protection			Tandem, Mechanical, Oil Lubricated Upper, Self-Lubricated Lower					
Seal Type Sealing Faces: Uppe			Carbon/Ni-Resist					
	-	Upper	Silicon Carbide/Silicon Carbide					
Hotating	/Stationary	Lower	2 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25					
	Seal Elastomers		Buna-N Upper, Fluorocarbon (DuPont Viton® or Equivalent) Lower					
Max. Liquid Temperature			104°F (40°C) MOTOR DETAILS					
Speed			60 Hz, 1750 RPM					
Motor Design			Inverter-Duty Rated, Air-Filled Enclosure, Squirrel Cage, Induction Start					
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		50.0 HP (37,3 kW)						
Amp Draw @ Max. Rated Power: Full Load/								
		460V/2D	20.01/27.0					
Locke	ed Rotor	460V/3P	60.0/425.0					
	575V/3P NEMA Motor Code		48.0/340.0 H					
Service Factor			1.15					
Efficiency: 100%/75%/50% Load			94%/93%/92%					
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					
Thermal Overload			CABLE DETAILS					
Voltage			460V		575	V		
Power Cable	No. Cables/Conductors per			1/6		1/6		
	Gauge		(3) 4 AW	G PWR & (3) 8 AWG GND/GC	(3) 6	S AWG PWR & (3) 10 AWG GND/GC		
	Type/Material		\-/ . / . / \	GGC/PPE		GGC/	-	
	Nominal Cable O.D.			1.19" (30,2)		1.05" (26		
	No. Cables/Conductors per		1/4					
Control Cable	Gauge		14 AWG					
	Type/Material		SOOW/CPE					
	Nominal Cable O.D.		0.61" (15,5 mm)					
Length			32 Feet (10 Meters) Standard, 164 Feet (50 Meters) Maximum					
			GORMAN-RUPP PUMPS					



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Specification Data

SECTION 133, PAGE 220.2

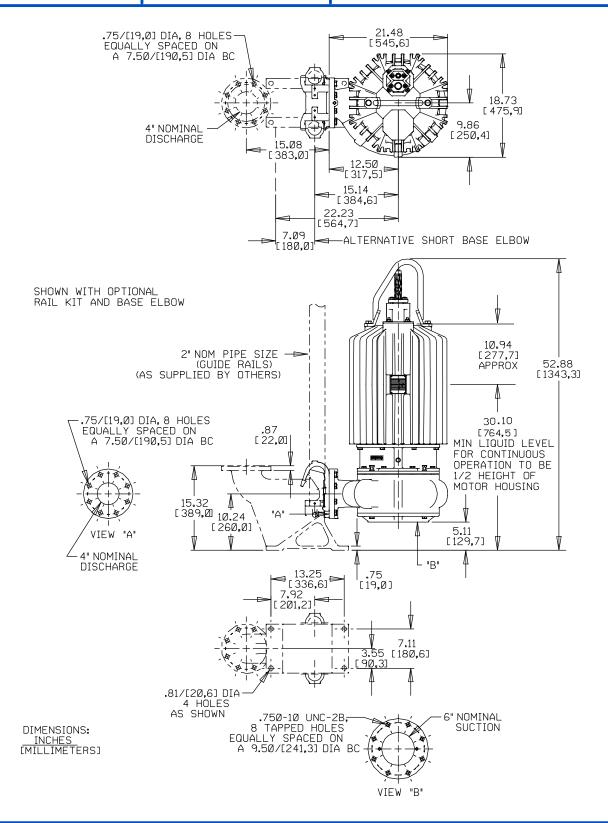
MODEL SF4C & SF4C-X SLIDE RAIL VERSION APPROXIMATE DIMENSIONS and WEIGHTS

CRATE SIZE:

NET WT: (pump only) (comb. cable wt. per meter [3.2 ft.]) SHIPPING WT: (pump only)

1294 LBS. 3.4 LBS. 1444 LBS. 23.2 CU. FT.

[586,9 KG.] [1,54 KG.] [655 KG.] [0,66 CU. M.]





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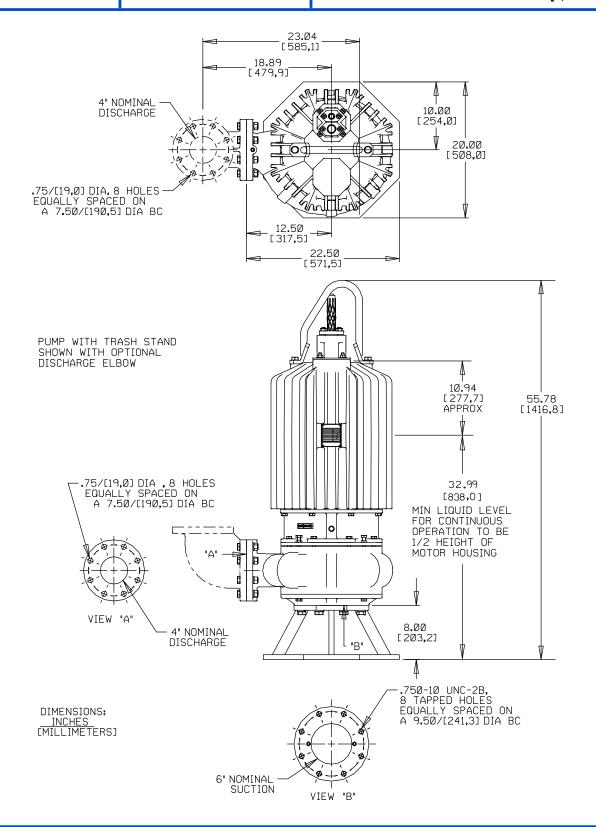
SECTION 133, PAGE 220.3

MODEL SF4C & SF4C-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:

1354 LBS. 3.4 LBS. 1499 LBS. 26.5CU. FT.

[614,2 KG.] [1,54 KG.] [680 KG.] [0,75 CU. M.]





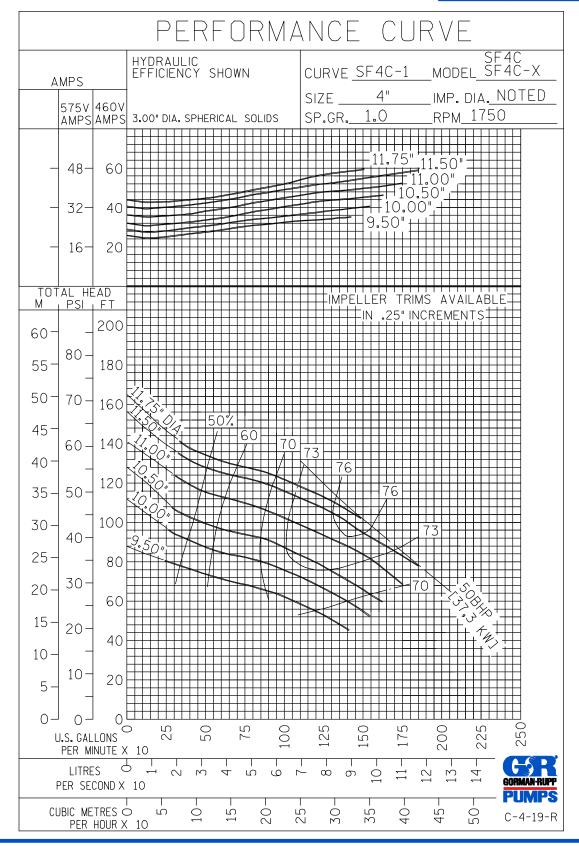
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Sec. 133

PAGE 220.4 SEPTEMBER 2022





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