

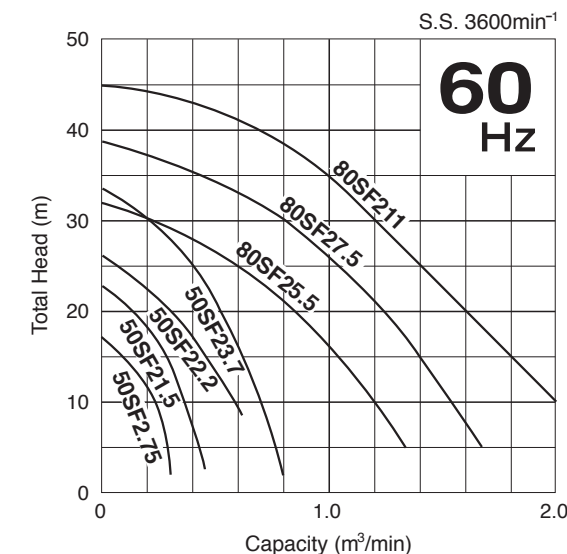
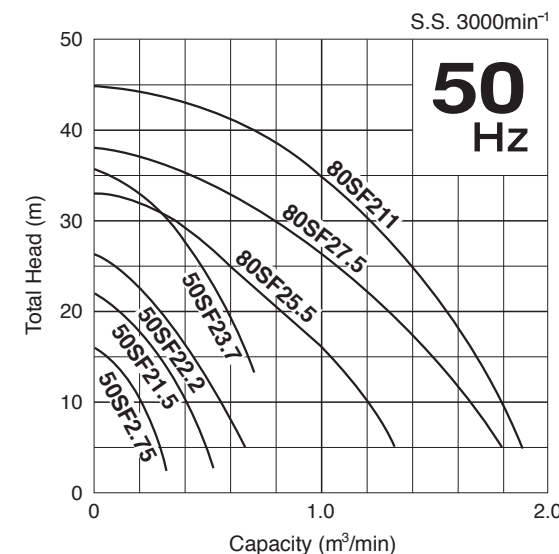
# SF

The SF-series is a cast iron, compact, effluent pump having a semi-open impeller. It is designed for high-head pumping plus defoaming at wastewater treatment plants.



- Applications
- Draining treated water at wastewater treatment plant
  - Pumping rainwater and springwater from underground
  - Supplying treated water for defoaming at wastewater treatment plant

■ Performance Curves



■ Major Standard Specifications

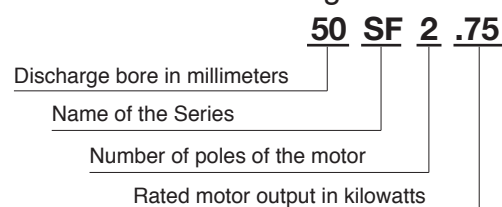
Discharge Bore		mm	50	80
Pumping Fluid	Type of Fluid	Effluent		
	Fluid Temperature	0 to 40°C		
Pump	Structure	Impeller	Semi-open Impeller	
		Shaft Seal	Double Mechanical Seal with Oil Lifter	
		Bearing	Double-shielded Ball Bearing	
	Materials	Impeller	Gray Iron Casting	
		Casing	Gray Iron Casting	
Shaft Seal	SiC			
Motor	Type, Pole	Dry Type Submersible Induction Motor 2-pole		
	Class of Insulation	Class E (0.75kW only) Class F		
	Phase	Three-phase		
	Starting Method	Direct on Line Star-delta (11kW only)		
	Protection Device (built-in)	Circle Thermal Protector Miniature Thermal Protector (11kW only)		
	Lubricant	Turbine Oil (ISO VG32)		
	Materials	Frame	Gray Iron Casting	
		Shaft	403 Stainless Steel (3.7kW and below) 420 Stainless Steel (5.5kW and above)	
Cable		PVC (3.7kW and below) Chloroprene Rubber (5.5kW and above)		
Discharge Connection		Screwed Flange (1.5kW and below) JIS 10K Flange (2.2kW and above)		

■ Standard Specifications

Discharge Bore mm	Model		Motor Output kW	Starting Method	Speed (S.S.) 50Hz/60Hz min <sup>-1</sup>	Impeller Passage 50Hz/60Hz mm	Dry Weight * kgs		Cabtyre Cable						
	Free Standing	Guide Rail Fitting					Free Standing	Guide Rail Fitting	No. of Cables	200 ~ 240 V		380 ~ 575 V		Length m	Material
50	50SF2.75	(TOK)	0.75	D.O.L.	3000/3600	11/10	20	—		1	4 × 1.25	11.1	4 × 1.25		
50	50SF21.5	TOS50SF21.5	1.5	D.O.L.	3000/3600	11/10	33	33	1	4 × 1.25	11.1	4 × 1.25	11.1	6	PVC
50	50SF22.2	TOS50SF22.2	2.2	D.O.L.	3000/3600	7.5	49	49	1	4 × 2.0	11.8	4 × 2.0	11.8	6	PVC
50	50SF23.7	TOS50SF23.7	3.7	D.O.L.	3000/3600	7.5	56	55	1	4 × 3.5	13.9	4 × 2.0	11.8	6	PVC
80	80SF25.5	TOS80SF25.5	5.5	D.O.L.	3000/3600	15/19	125	122	1	4 × 3.5	14.1	4 × 3.5	14.1	8	Chloroprene Rubber
80	80SF27.5	TOS80SF27.5	7.5	D.O.L.	3000/3600	19/21	128	125	1	4 × 5.5	16.8	4 × 5.5	16.8	8	Chloroprene Rubber
80	80SF211	TOS80SF211	11	Star-Delta	3000/3600	22	147	144	3	4 × 3.5 3 × 3.5 2 × 1.25	14.1 12.9 9.8	4 × 3.5 3 × 3.5 2 × 1.25	14.1 12.9 9.8	8	Chloroprene Rubber

\* Dry weight  
All weights excluding cable  
Weights of guide rail fitting excluding duckfoot bend

■ Model Number Designation



■ Standard Accessories

Free Standing

- Discharge Bend (with Packing & Bolts)
- Screwed Flange -1.5kW and below
- JIS 10kg/cm<sup>2</sup> Flange (with Packing, Bolts & Nuts) -2.2kW and above

Guide Rail Fitting - TOS

- Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook
- Duckfoot Bend
- JIS 10kg/cm<sup>2</sup> Flange (with Packing, Bolts & Nuts)
- Foundation Bolts (with Nuts)

Guide Rail Fitting - TOK

- Lifting Chain 4m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook
- Duckfoot Bend