

# PSF

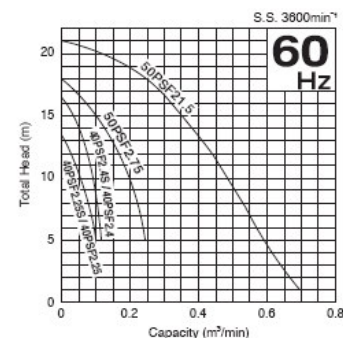
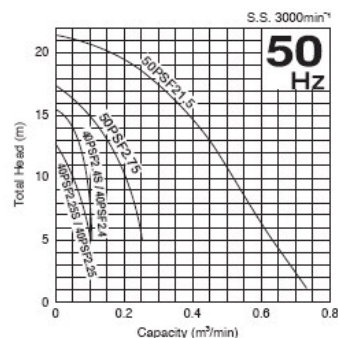
The PSF-series is one of the Tsurumi VANCS-series. Being made of stainless steel and special resin, the pump is not only lightweight but corrosion-resistant as well. Built-in closed impeller generates the highest head in VANCS-series.



### Major Standard Specifications

Discharge Bore	mm	40	50
Pumping Fluid	Type of Fluid	Effluent	
	Fluid Temperature	0 to 40°C	
Pump	Structure	Impeller: Closed Impeller	
	Shaft Seal	Double Mechanical Seal with Oil Lifter	
	Bearing	Double-shielded Ball Bearing	
	Impeller	Fiber-reinforced Plastic	
	Materials	Casing: Fiber-reinforced Plastic	Shaft Seal: SiC
Motor	Type, Pole	Dry Type Submersible Induction Motor 2-pole	
	Class of Insulation	Class E	
	Phase	Single-phase (suffix "S") Three-phase	
	Starting Method	Capacitor Run (single-phase only) Direct on Line	
	Protection Device (built-in)	Circle Thermal Protector Miniature Thermal Protector (single-phase only)	
	Lubricant	Turbine Oil (ISO VG32)	
	Materials	Frame: 304 Stainless Steel	Shaft: 304 Stainless Steel
		Cable: PVC	
	Discharge Connection	Screwed Flange	

### Performance Curves



\* Standard, Automatic and Auto-Alternation models have the identical performance.

### Standard Specifications

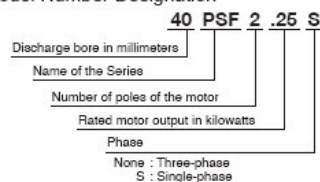
Discharge Bore mm	Standard Model		Automatic Model		Auto-Alternation Model		Motor Output kW	Starting Method	Speed (S.S.) 50Hz/60Hz min <sup>-1</sup>	Impeller Passage 50Hz/60Hz mm	Dry Weight * kgs		Cable						
	Free Standing	Guide Rail Fitting	Free Standing	Guide Rail Fitting	Free Standing	Guide Rail Fitting					Standard Model	Automatic & Auto-Alternation Model	No. of Cables	200 ~ 240 V		380 ~ 575 V		Length m	Material
														Cores × mm²	Outer Dia. mm	Cores × mm²	Outer Dia. mm		
40	40PSF2.25S	(TOK)	40PSFA2.25S	(TOK)	40PSFW2.25S	(TOK)	0.25	Capacitor Run	3000/3600	8	7.3	7.8	1	3 × 1.25 <sup>110-150V</sup>	10.1	3 × 1.25 <sup>230-240V</sup>	10.1	5	PVC
40	40PSF2.25	(TOK)	40PSFA2.25	(TOK)	40PSFW2.25	(TOK)	0.25	D.O.L.	3000/3600	8	6.2	6.8	1	4 × 1.25 <sup>110-150V</sup>	11.1	4 × 1.25 <sup>230-240V</sup>	11.1	6	PVC
40	40PSF2.4S	(TOK)	40PSFA2.4S	(TOK)	40PSFW2.4S	(TOK)	0.4	Capacitor Run	3000/3600	8	7.3	7.8	1	3 × 1.25 <sup>110-150V</sup>	10.1	3 × 1.25 <sup>230-240V</sup>	10.1	5	PVC
40	40PSF2.4	(TOK)	40PSFA2.4	(TOK)	40PSFW2.4	(TOK)	0.4	D.O.L.	3000/3600	8	7.1	7.7	1	4 × 1.25 <sup>110-150V</sup>	11.1	4 × 1.25 <sup>230-240V</sup>	11.1	6	PVC
50	50PSF2.75	(TOK)	50PSFA2.75	(TOK)	50PSFW2.75	(TOK)	0.75	D.O.L.	3000/3600	8	8.4	9.0	1	4 × 1.25 <sup>110-150V</sup>	11.1	4 × 1.25 <sup>230-240V</sup>	11.1	6	PVC
50	50PSF21.5	(TOK)	50PSFA21.5	(TOK)	50PSFW21.5	(TOK)	1.5	D.O.L.	3000/3600	13	14.7	15.4	1	4 × 1.25 <sup>110-150V</sup>	11.1	4 × 1.25 <sup>230-240V</sup>	11.1	6	PVC

\* Weights excluding cable

### Applications

- Draining treated water at small-scale wastewater treatment facility
- Pumping rainwater and springwater from basement
- Supplying treated water for defoaming at small-scale wastewater treatment facility

### Model Number Designation



### Standard Accessories

- Free Standing
- Screwed Flange

### Guide Rail Fitting - TOK

- Lifting Chain 4m\*, (with Shackles)  
\*5m for 1.5kW
- Guide Support (with Bolts & Nuts)
- Guide Hook
- Duckfoot Bend