Pumps with New Sealless Structure Design and Adopting Unique Vapor Seal Feature to give Pump Dry Running Ability

PE Type
(FRPP)

PE-F Type
(PVDF)

PEB Type
(FRPP)

Material

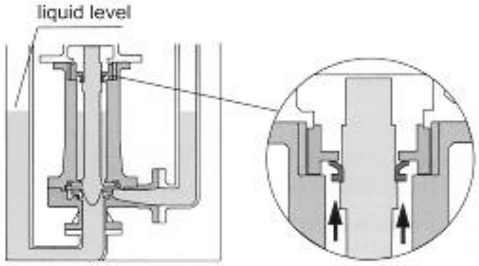
Showfou provide FRPP and PVDF pump body to meet customer's requirement.
FRPP : Fiber Reinforced Polypropylene.

Maximum Permissible Temperature	FRPP	70°C
	PVDF	95°C

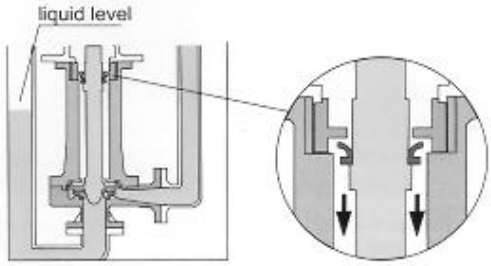
FEATURES

Sealless structure

The sealless principal of fluid in our Showfou vertical sealless pump is to utilize the pressure, viscosity, and friction of the fluid.
During running, the fluid flowing to shaft caused by inner pressure, but the specially designed two-layered impeller enables to seal up the fluid successfully and reduce the suction air to enter the pump; thus, the inner will keep high vacuum situation.



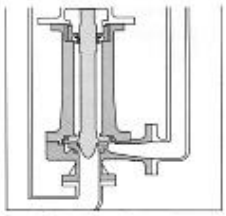
Stop



Normal running

Dry running ability

Superior construction design, there is no any contact between the pump body and the impeller. Owing to no any friction caused in running, the long period dry running will not cause any damage with pump.



Dry running

Vapor seal structure

To prevent chemical gas entering to motor shaft, Our Showfrou solution is to equip PE/PE-F/PEB type pump with a vapor seal, so when the pump is in operation the vapor seal is forced to open by centrifugal force in order to stop the gas leakage. When stop, the vapor seal will close to seal up the chemical gas due to reactive force of its rubber.

Besides, for our PE/PE-F type pump, the leaked gas will be perished immediately due to the special upper bracket design which can also solve the liquid overflow problem.

Vapor seal
(PE/PE-F/PEB Type)

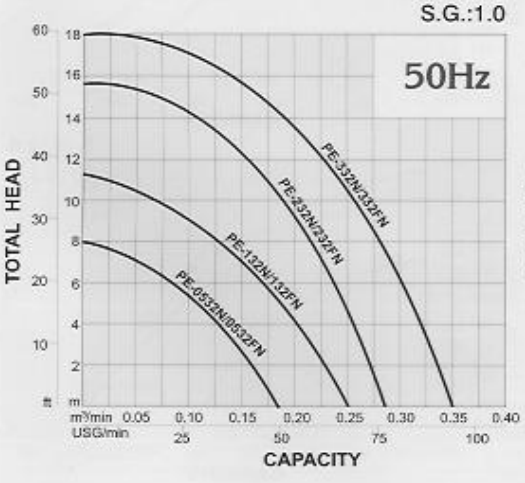
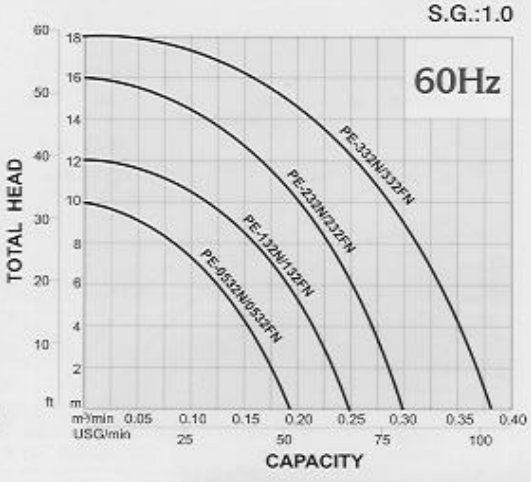
upper bracket
(PE Type)

PE · PE-F Type SPECIFICATIONS

Hz	Type		S.G	Motor			Pump				Weight	Height	Pump Dia
	FRPP	PVDF		Power	Phase	Volt	Bore size		Max. Head	Max. Flow			
	PE	PE-F		KW(HP)	PH	V	Inlet inch(mm)	Outlet inch(mm)	m	m³/min	kg	mm	mm
50	PE-0532N	PE-0532FN	1.0	0.4(1/2)	3	220~480	2"(50)	1"(25)	7	0.18	19.4	536	221
	PE-132N	PE-132FN	1.0	0.75(1)	3	220~480	2"(50)	1 1/2"(40)	10	0.25	20	530	221
	PE-232N	PE-232FN	1.0	1.5(2)	3	220~480	2"(50)	1 1/2"(40)	14	0.28	23	610	221
	PE-332N	PE-332FN	1.0	2.2(3)	3	220~480	2"(50)	1 1/2"(40)	16	0.35	35	610	221
60	PE-0532N	PE-0532FN	1.0	0.4(1/2)	3	220~480	2"(50)	1"(25)	10	0.19	19.4	536	221
	PE-132N	PE-132FN	1.0	0.75(1)	3	220~480	2"(50)	1 1/2"(40)	12	0.25	20	530	221
	PE-232N	PE-232FN	1.0	1.5(2)	3	220~480	2"(50)	1 1/2"(40)	16	0.30	23	610	221
	PE-332N	PE-332FN	1.0	2.2(3)	3	220~480	2"(50)	1 1/2"(40)	18	0.38	35	610	221

PE · PE-F Type PERFORMANCE CURVE

S.G.:1.0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