

Empire Pumps EPHF high flow range of plastic pumps are manufactured from polypropylene and PVDF thermoplastic materials. Our EPHF range can achieve flow rates from 1000 to 3300 l/min making the pumps ideal for transferring large volume solutions.

The high flow capacity combined with discharge pressure capabilities from 0 to 4.7 bar make the EPHF range an excellent pump option for solution transfer associated with multiple industries. The plastic materials of construction make the pump specifically attractive for the chemical, effluent treatment and wastewater industries.

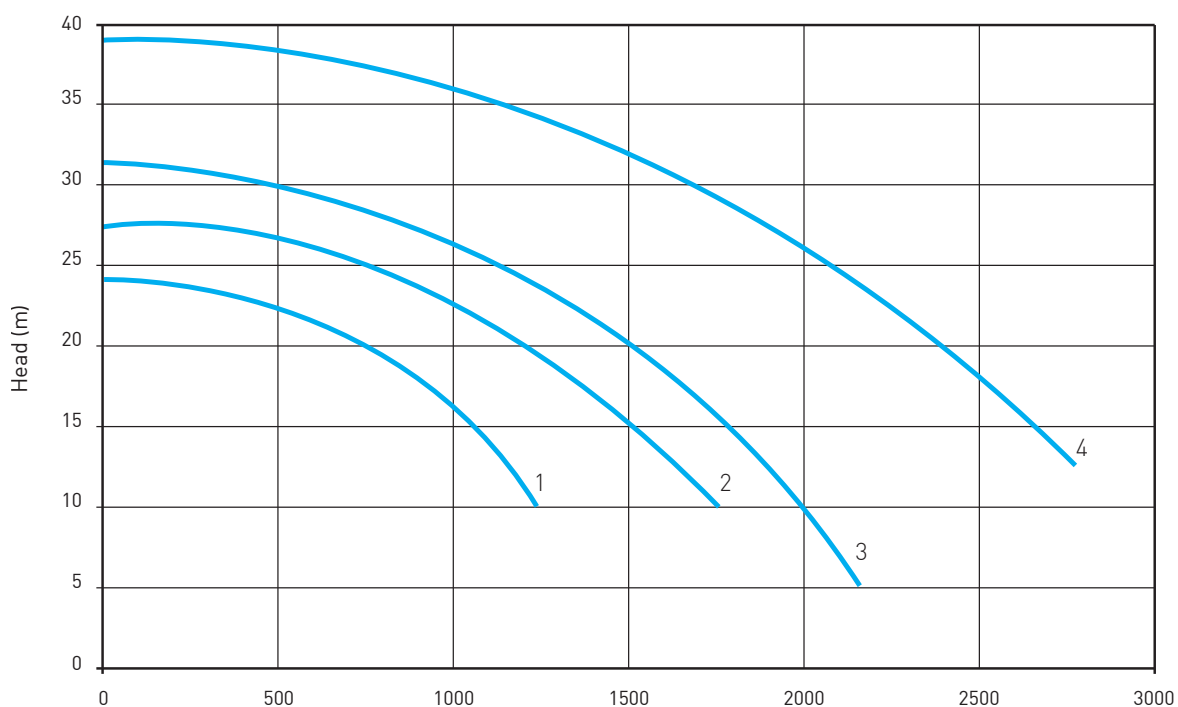
The pump technology can be manufactured with a single or double mechanical seal. The choice of seal assemblies gives the option of transferring clean or abrasive natured solutions. Industries such as the chemical & petrochemical where salt based solutions are used are perfect for our series EPHF double mechanical seal pumps.

The pump can be fitted with carbon ceramic soft faced seals or silicon carbide hard faced seals. The elastomers are manufactured from nitrile and viton materials



FEATURES AND BENEFITS

- Materials of construction: Polypropylene & PVDF
- Flow rates ranging from 100 to 3300 l/min
- Maximum pressure capabilities up to 4.7 bar
- Mechanical seal: Single or double
- Seal materials: Carbon ceramic or silicon carbide
- Nitrile and viton elastomers
- Flanged connections
- Integral flushing system
- Close coupled electric drive motor
- Electric motors 2 pack epoxy paint finish
- Ideal for abrasive solutions containing solids
- Industries: Fume scrubber, petrochemical and waste water

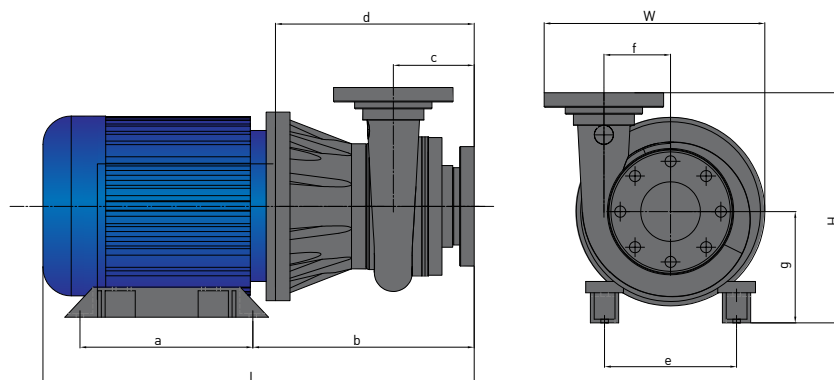


Pump Curve	Single Seal Model		Double Seal Model		Inlet (Flange)	Outlet (Flange)	Max Flow (l/min)	Max Head (m)	Motor (kw)
	Polypropylene	PVDF	Polypropylene	PVDF					
1	EPHF1PPN	EPHF1KV	EPHF1PPN-2	EPHF1KV-2	3"	3"	1300	24	5.5
2	EPHF2PPN	EPHF2KV	EPHF2PPN-2	EPHF2KV-2	3"	3"	1750	27	7.5
3	EPHF3PPN	EPHF3KV	EPHF3PPN-2	EPHF3KV-2	4"	4"	2200	32	11
4	EPHF4PPN	EPHF4KV	EPHF4PPN-2	EPHF4KV-2	5"	5"	2750	39	18.5



Item No	Description	Materials	
		Polypropylene	PVDF
1	Motor	Cast Iron	Cast Iron
2	Shaft	Stainless Steel with Teflon Coating	Stainless Steel with Teflon Coating
3	Connecting Bracket	Polypropylene	Polypropylene
4	Rear Seal Cover	Polypropylene/SiC	PVDF/SiC
5	Pump Body	Polypropylene	PVDF
6	Gasket	Nitrile	Viton
7	Mechanical Seal	Stainless Steel with PTFE Coating/SiC	Stainless Steel with PTFE Coating/SiC
8	Impeller	Polypropylene	PVDF
9	Screw Oring	Nitrile	Viton
10	Impeller Fixing Screw	Polypropylene	PVDF
11	Front Casing	Polypropylene	PVDF

* 12:: Double Seal model is fitted with water tank (polypropylene) and hose (PTFE)



DIMENSIONS

Model	Dimensions (mm)			a	b	c	d	e	f	g
	L	W	H							
EPHF1	693	340	372	278	335	130	316	210	105	177
EPHF2	693	340	372	278	335	130	316	210	105	177
EPHF3	726	351	372	278	335	130	316	210	105	177
EPHF4	940	422	442	335	453	150	385	250	125	210

* Electric motor drive dimensions may change, please consult sales.