

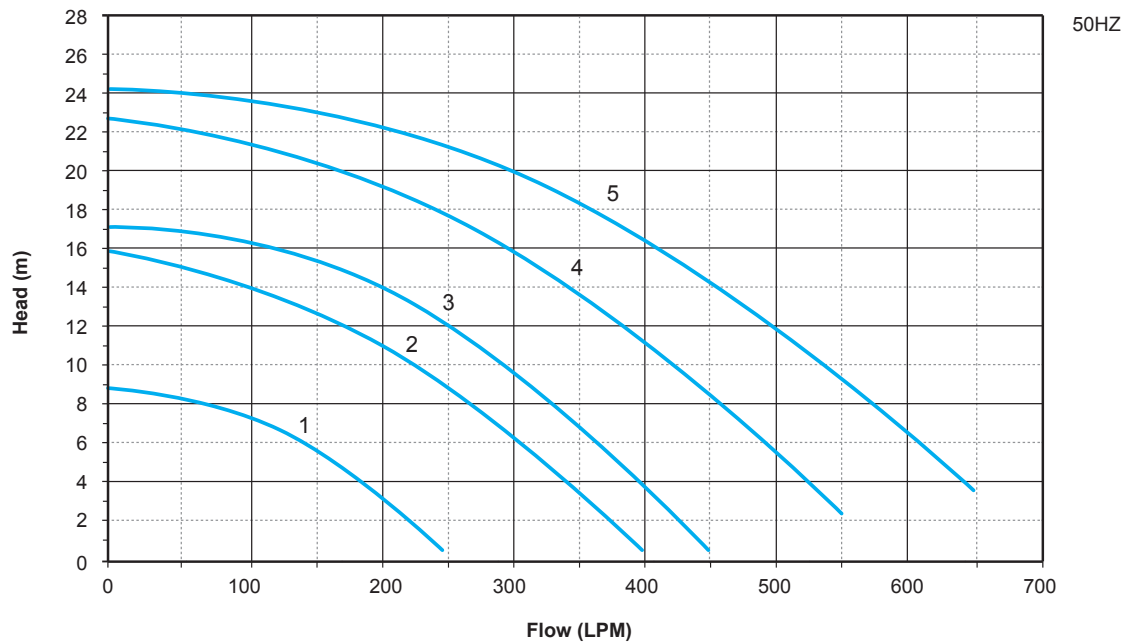
Empire Pump's Self Priming Pumps are manufactured for solution transfer applications associated with many industries. The pumps can be constructed from either polypropylene, CPVC and PVDF materials providing chemical resistance against highly corrosive solutions. The pump design incorporates a mechanical seal which can be manufactured with silicon carbide or carbon ceramic seal faces, alternative elastomers are available. Dilute solutions such as effluent treatment and waste water would utilise a carbon ceramic mechanical seal and pumps supplied for aggressive chemistries like sulphuric, hydrochloric and nitric acids would use a silicon carbide mechanical seal.

The Self Priming pump suction inlet is designed with a sump pot and check valve to ensure the pump always maintains prime. The unique suction casing design provides protection to the mechanical seal. The self-priming pump is especially advantageous for effluent treatment processes where it is common for leaves and particulate to be present within the solution. The range is designed to achieve flow rates ranging from 0 to 800 l/min and overcome discharge pressures up to 25 to 30m head. The self-priming capability gives a real benefit when transferring solutions from sumps and effluent pits. Our Self Priming range of pumps can overcome sump depths of up to 6m.



FEATURES AND BENEFITS

- Polypropylene, CPVC, PVDF materials of construction.
- Self-Priming pump capable of achieving a 6m suction lift
- Flow rate 0 to 800 l/min
- Discharge pressures 25 to 30m
- Silicon carbide or carbon ceramic mechanical seal
- Nitrile, EPDM or viton elastomers
- Close coupled electric drive motor
- 240v 1phase or 400v 3phase
- BSP & flange connections

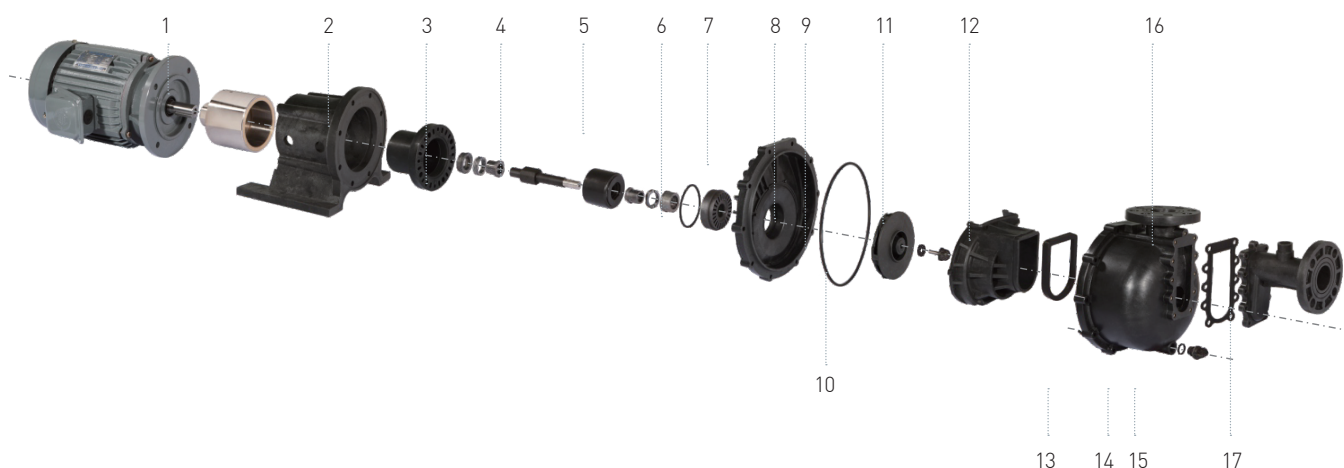


MODEL NUMBER

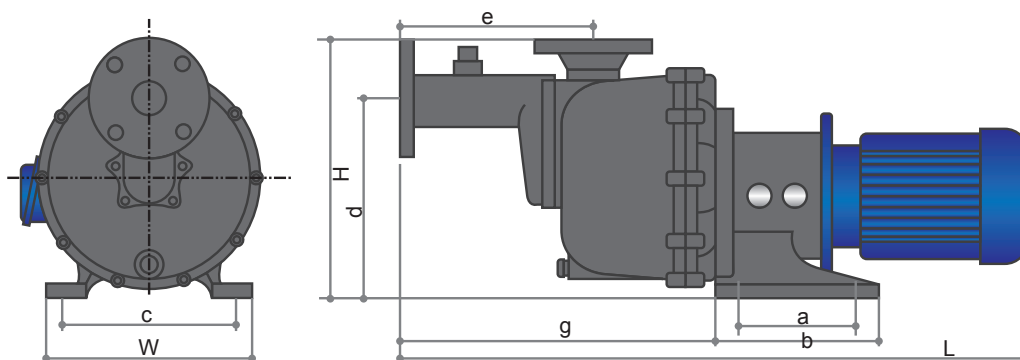
Pump Curve	Model Number		Flange Connections		Max Flow Rate (l/min)	Max Head (m)	Power (kw)
	Polypropylene	PVDF	Inlet	Outlet			
1	EPS1PPE	EPS1KV	1-1/2" Ansi Flange	1-1/2" Ansi Flange	240	9	0.75
2	EPS2PPE	EPS2KV	1-1/2" Ansi Flange	1-1/2" Ansi Flange	400	16	1.5
3	EPS3PPE	EPS3KV	2" Ansi Flange	2" Ansi Flange	440	17	2.2
4	EPS4PPE	EPS4KV	3" Ansi Flange	3" Ansi Flange	550	23	3
5	EPS5PPE	EPS5KV	3" Ansi Flange	3" Ansi Flange	650	24	3.75

* Polypropylene pumps fitted with carbon ceramic mechanical seal.

* PVDF pumps fitted with silicon carbide mechanical seal.



Item No	Description	Materials	
		Polypropylene	PVDF
1	Electric Motor	Cast Iron	Cast Iron
2	Frame & Foot	Polypropylene	Polypropylene
3A	Shaft Sleeve	PTFE	PTFE
3B	Shaft	Stainless Steel	Stainless Steel
3C	Shaft Fixing Screw	Stainless Steel	Stainless Steel
3D	Shaft Key	Stainless Steel	Stainless Steel
4	Seal Seat with o/ring	Polypropylene / EPDM	PVDF / Viton
5	Rear Seal Cover	Polypropylene	PVDF
6	Mechanical Seal Complete	Carbon / Nitrile	Silicon / Viton
6-1	Rotating Ring	Carbon	Silicon
6-2	Expansible Ring	Teflon	Teflon
6-3	Seal Spring	Hastelloy	Hastelloy
6-4	Front O Ring	Nitrile	Viton
6-5	Gasket	Nitrile	Viton
6-6	Back O Ring	Nitrile	Viton
7	Seal Seat O Ring	EPDM	Viton
8	Impeller	Polypropylene	PVDF
9	Impeller Fixing Screw O Ring	Nitrile	Viton
10	Impeller Fixing Screw	Polypropylene	PVDF
11	Volute	Polypropylene	PVDF
12	Flap Valve	Nitrile	Viton
13	Pump Body	Polypropylene	PVDF
14	Drain Plug O Ring	Nitrile	Viton
15	Drain Plug	Polypropylene	PVDF
16	Inlet Gasket	EPDM	Viton
17	Priming Point	Polypropylene	PVDF



DIMENSIONS

Model	Dimensions (mm)			a	b	c	d	e	g
	L	W	H						
EPS1	688	250	335	142	195	205	255	153	306
EPS2	723	250	335	142	195	205	255	153	306
EPS3	723	250	330	142	195	205	263	153	306
EPS4	734	250	330	142	195	205	159	108	320
EPS5	734	250	330	142	195	205	159	108	320

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