

DP Series Diaphragm Pump



Operating Principle

DP series diaphragm pump is a special form of positive displacement pump. The circular motion of the motor is used to make the diaphragm inside the water pump reciprocate through a mechanical device, thereby compressing and stretching the air in the pump cavity. Under the action of the one-way valve, a positive pressure is formed at the drain port; a vacuum is formed at the pumping port, resulting in a pressure difference with the outside air pressure. Under the action of the pressure difference, the water is pressed into the water inlet and then discharged from the drain. Under the action of the kinetic energy transmitted by the machine, the water is continuously sucked and discharged to form a relatively stable flow.

Characteristics

Easy to install

DP series diaphragm pump has the advantages of small size, beautiful appearance, compact structure, low noise and high pressure. It is an ideal equipment for civil and commercial use.

Excellent performance

DP series diaphragm pumps can choose different materials (GFRPP/GFRPA), which can safely transport various liquids. Built-in pressure switch, no oil seal, excellent sealing performance, fast and stable self-priming, absolutely no need to add water by hand.

Life extension

DP series diaphragm pumps allow dry operation. The pump cavity is separated from the motor, and the liquid will not penetrate into the motor and cause failure when used for a long time, thus greatly extending the service life of the pump.

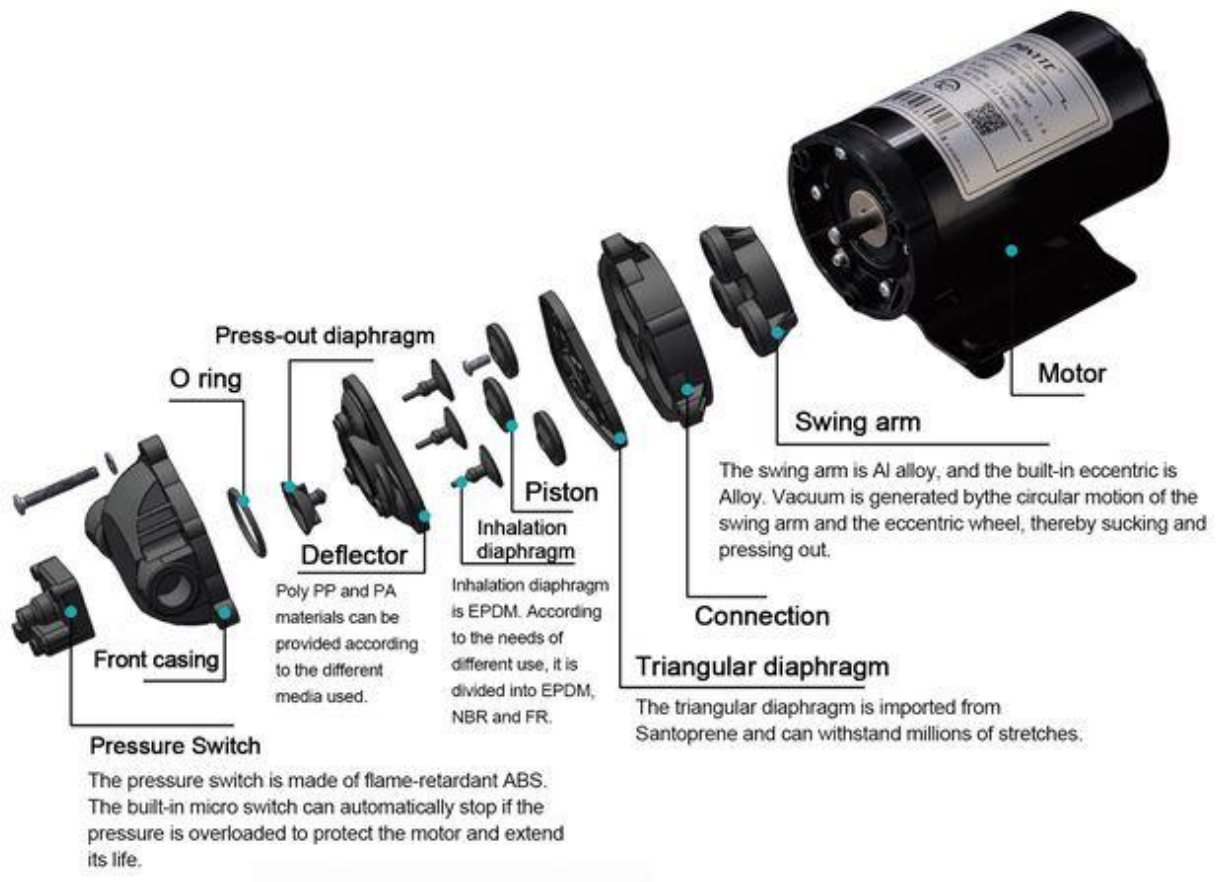
Complete specifications

There are more than 20 types of DP series diaphragm pumps. In addition to the standard, there are oil-resistant and corrosion-resistant types. The product models are rich and diverse, with maximum flexibility in selection

Applications

DP series diaphragm pumps are suitable for liquid transportation such as reverse osmosis water purification systems, spray devices, industrial equipment, automobile washing, sanitation facilities, and medical equipment.

Construction



Specifications

Model	Voltage (VDC)	Max flow G/min(L/min)	Max pressure Psi(Mpa)	Inhalation distance (m)	Operating speed (rpm)	Tap changer Psi(Mpa)	Electricity (A)	Output power (W)	In & out diameter (mm)	Weight (Kg)
DP-35B	12	2.5(9.5)	35(0.24)	5	1300	35(0.24)	7.0	40	G1/2	2.8
	24	3.2(12.0)	35(0.24)	5	1200	35(0.24)	4.8	40		2.8
DP-50B	24	4.2(16.0)	50(0.35)	5	1800	50(0.35)	6.0	65	G1/2	2.8
DP-60B	12	1.3(5.3)	60(0.42)	5	1200	60(0.42)	6.0	40	G3/8	2.6
	24	1.3(5.3)	60(0.42)	5	1200	60(0.42)	3.0	40		2.6
DP-60A	12	1.3(5.0)	60(0.42)	5	1200	/	6.0	40	G3/8	2.5
DP-80B	12	4.8(18.0)	80(0.55)	5	1800	80(0.55)	17.0	90	G1/2	3.2
	24	4.8(18.0)	80(0.55)	5	1800	80(0.55)	9.0	90		
DP-100B	24	0.32(1.2)	100(0.68)	5	1200	100(0.68)	1.1	40	G3/8	2.6
DP-100A	24	0.32(1.2)	100(0.68)	5	400	/	1.1	10	G3/8	2.5
DP-125B	24	0.26(1.0)	125(0.86)	5	400	125(0.86)	1.0	10	G3/8	2.6
DP-130A	12	0.45(1.7)	130(0.9)	5	400	/	2.2	10	G3/8	3.0
	24	0.45(1.7)	130(0.9)	5	500	/	1.2	15		3.0
DP-130B	12	0.45(1.7)	130(0.9)	5	500	130(0.9)	2.2	15	G3/8	3.1
DP-150A	12	0.8(3.0)	150(1.0)	5	800	/	4.5	30	G3/8	3.2
	24	0.8(3.0)	150(1.0)	5	800	/	3.6	30		3.2
DP-180A	12	1.3(5.0)	180(1.24)	5	1200	/	10.0	50	G3/8	3.2
	24	1.3(5.0)	180(1.24)	5	1200	/	4.0	50		3.2

- Unit conversion: 1 gallon is 3.785 liters, and 1 Mpa is 1.45 psi.
- The motor can be divided by Diaphragm , BL Diaphragm and AC Diaphragm 3 type series.
- Contact us please if you have special specifications.

Applications



Yacht



RV



Farming



Industry



Solar water system



Liquid transfer

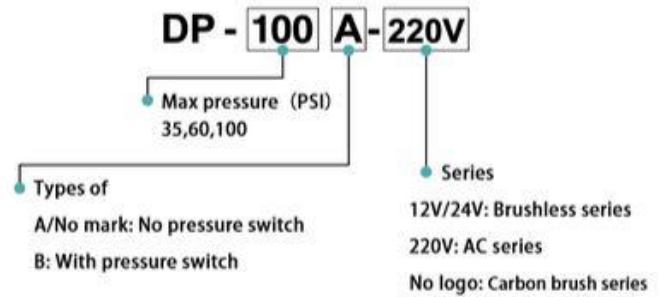


Water purifier

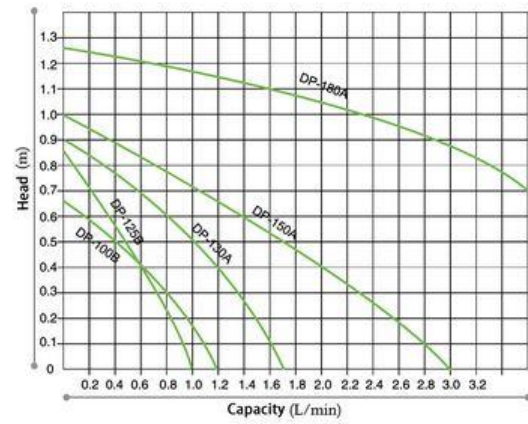
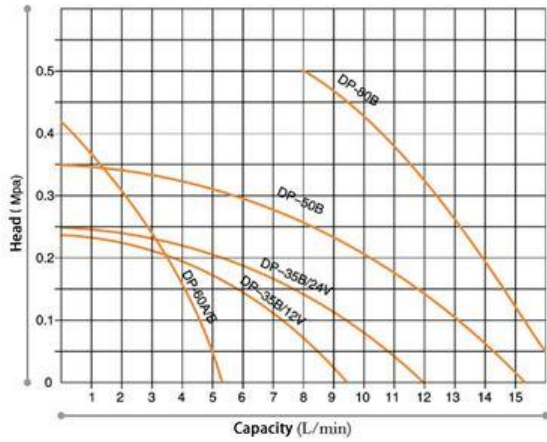


Medical beauty equipment

Pump identification



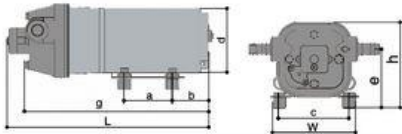
Performance curves



Dimensions (mm)

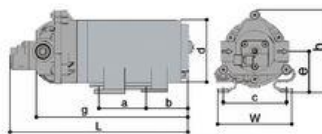
DP-35B · 50B

Illustration shows DP-35B



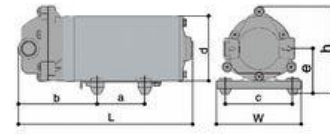
DP-60B · 100B · 125B

Illustration shows DP-60B



DP-130A · 150A · 180A

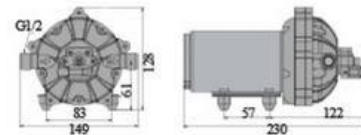
Illustration shows DP-130A



Model	a	b	c	d	e	g	h	L	W
DP-35B	57	50	85	Φ76	75	220	100	245	105
DP-50B									
DP-60B	57	42	83	Φ76	60	185	101	Note1 217(190)	105
DP-100B								191.5	
DP-125B									
DP-130A	57	95	81	Φ78	55	-	105	Note2 209(241)	102
DP-150A									
DP-180A									

DP-80B

Illustration shows DP-80B



Note1: () is the size of connection type of pressure switch.

Note2: () is the size of connection type of no pressure switch.

Note3: The data is only for parameters, and the size of product upgrade will change.