

DIAPHRAGM PAINT PUMPS

PDP-05B, PDP-05-SU, PDP-10A

Downsizing fluid circuit leads to reduction of fluid residual inside of the pump. (Fluid residual of PDP-05 types: 6mL). This contributes to reduction of VOC (Volatile Organic Compound) emissions by saving cleaning liquid.

Connecting metal air circuit has been modified to enhance pump performance.

Prevention against malfunction caused by loosened parts of diaphragm.

Paint pressure reduction valve has been modified to separate type for easy maintenance.

Diaphragm pump and paint pressure reduction valve, FR-1A are available separately as an individual part.

Fluid circuit of PDP-10A has been widened to improve pump performance.

Prevention against pump malfunction caused by over discharge has been improved for PDP-10A.

Applications

- Painting with frequent color changes
- Built-in painting systems
- Substitute for suspended gravity-feed tank
- Single-gun, small-volume painting

Set Model No.	PDP-05B	PDP-05-SU	PDP-10A	
Diaphragm pump model	DP-05B	DP-05-SU	DP-10A	
Paint pressure-reduction valve model	FR-1A	—	FR-1A	
Pump	Max. air pressure MPa	0.69	0.7	0.69
	Max. discharge rate (value measured in water) L/min	4	—	7.5
	Diaphragm cycles Cycles/min	0~400		0~375
Pressure-reduction valve	Paint pressure adjustment range MPa	0~0.35		0~0.35
	Max. flow rate L/min	1.5	1.0	1.5
Paint outlet bore	G1/4×1			
Air inlet bore	G1/4×1			
Approx. dimensions (W×D×H) mm	200×296×421	212×245×426	200×311×446	
Weight kg	3.7	4.5	5	

Note : PDP-05-SU is a built-in pressure-reduction valve and can not be used as transfer pumps.
If a transfer pump is required, select the DP-17B.

PDP-17B series

Paint is drawn in, pressure-feed and supplied while adjusting to the appropriate pressure.

Simple design for easy color changing and maintenance, as well as easy setup and location changes.

Teflon coating (PDP-17B-TF).

Stand type with a built-in mixer (PDP-17B-SP).

Stainless steel passage for waterborne compatibility (PDP-17B-SU).

Set Model No.	PDP-17B	PDP-17B-TF	PDP-17B-SP	PDP-17B-SU
Diaphragm pump model	DP-17B	DP-17B-TF	DP-17B	DP-17B-SU
Paint pressure-reduction valve model	FR-4A	FR-4A-TF	FR-4A	FR-4A-SU
Pump	Max. air pressure MPa	0.69		
	Max. discharge rate (value measured in water) L/min	17		
	Diaphragm cycles Cycles/min	0~170		
Pressure-reduction valve	Paint pressure adjustment range MPa	0~0.35		
	Max. flow rate L/min	2.0		
Paint outlet bore	G1/4×1			
Air inlet bore	G1/4×1			
Approx. dimensions (W×D×H) mm	425×340×570	425×340×570	438×388×810	425×340×540
Weight kg	8	8	13.5	13

- SU model is stainless steel.
- Models equipped with two pressure-reduction valves (two G1/4 bore paint outlets) are also available by special order.

PAINT PRESSURE-REDUCTION VALVE

Model No.	FR-1A	FR-4A	FR-4A-TF	FR-4A-SU
Paint pressure adjustment range MPa	0~0.35			
Max. flow rate L/min	1.5	2		—
Valve effective sectional area mm ²	16			
Paint outlet	G1/4			
Paint inlet	G1/4	G3/8		—
Weight kg	0.5	1.4	1.4	3.0

- SU model is stainless steel.

