



**PAINT SUPPLY PUMP &  
SYSTEM EQUIPMENT**

### Paint Pump Variations

#### Diaphragm Paint Pump

Air operated, simple construction, highly stable platforms for a wide range of uses in various applications including: low pressure paint output, multiple guns, paint transfer, etc.

#### Bellows Seal Pump

Piston Pump with Bellows Seal Construction, with high pressure ratio & high output. It can be used with high viscosity materials and/or multiple gun setups.

#### Plunger Pump

Air-Driven Plunger Pump is available for high viscosity paint applications.

Pump Type	Diaphragm Pump							
Model	DDP-70B	DDP-70BN	DDP-90E	DDP-90EN	DDP-120B	DDP-120BN	DDP-160D	DDP-160DN
Fluid Passage Material	Aluminum	Stainless	Aluminum	Stainless	Aluminum	Stainless	Aluminum	Stainless
Pressure Ratio	1:1		1:1		1:1		1:1	
Operating Pressure Range	0.15~0.7MPa		0.15~0.7MPa		0.15~0.7MPa		0.15~0.85MPa	
Max Paint Pressure	0.7MPa		0.7MPa		0.7MPa		0.83MPa	
Output Per Cycle	20ml/Cycle		50ml/Cycle		150ml/Cycle		330ml/Cycle	
Max Cycles	300Cycles/min		200Cycles/min		200Cycles/min		200Cycles/min	
Max Output*1	6ℓ/min		10ℓ/min		30ℓ/min		66ℓ/min	
Output per 30cycle/min	0.6ℓ/min		1.5ℓ/min		4.5ℓ/min		10ℓ/min	
Viscosity Range*2	60s/NK-2 190cps		100s/NK-2 300cps		100s/NK-2 300cps		— 3,000cps	
Application	Pump	●	●	●	●	●	●	●
	Stand Mount	△	△	●	●	●	●	—
	18ℓ Tank Mount	●	△	—	—	—	—	—
	Wall Mount	●	●	●	●	●	●	—
	5ℓ Hopper Type	●	●	—	—	—	—	—
	18ℓ Tank Transfer Type	●	△	—	—	—	—	—
	Pail Tank Mount(20ℓ)	●	●	●	●	●	●	—
	Elevator Stand Typ(18ℓTank)	●	●	●	●	●	●	—
	Elevator Stand Type(20ℓ Pail Tank)	●	●	●	●	●	●	—

\*1 Liquid: Water, Figures from testing at the pump outlet with no load.

\*2 Viscosity can be limited by suction and output hose length and diameter.

\* For use with other materials like lubricant, chemicals or highly acidic/basic materials please contact ANEST IWATA for recommendations.

### Required output as related to pump selection (Includes pump system volume)

Model	DDP-70B DDP-70BN	DDP-90E DDP-90EN	DDP-120B DDP-120BN	DDP-160D DDP-160DN	BSP-A030 BSP-A030-T	PP-7201B	PP-1051B
Output requirement (with pump system volume)	~0.6ℓ/min	~1.5ℓ/min	~4.5ℓ/min	~10ℓ/min	~17.1ℓ/min	~2.7ℓ/min	~4.5ℓ/min
Output Per Cycle	20ml/min	50ml/min	150ml/min	330ml/min	570ml/min	90ml/min	150ml/min
Output at 30cycles/min	0.6ℓ/min	1.5ℓ/min	4.5ℓ/min	10ℓ/min	17.1ℓ/min	2.7ℓ/min	4.5ℓ/min

※Above data is but one criteria for selecting your pump. Please consider all factors of your application before making your selection.

### Selection Criteria

What paint would be used?

Aluminum or Stainless Steel wetted parts are available to handle a wide variety of materials.

Where is your work location?

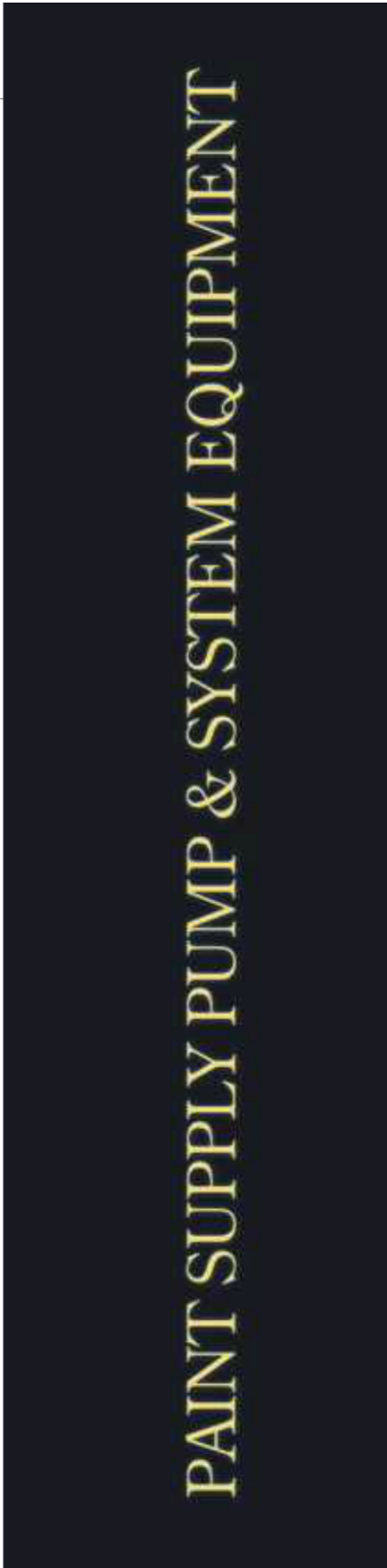
Various configurations are available (wall mount, cart mount, elevator type, etc.) to meet any user needs.

How much material is required?

Pump size is determined not only by the number of guns to be used, but also the length of the paint lines, the head on the pump and the viscosity of the paint. It is important not to oversize the pump to minimize waste.

Bellows Seal Pump		Plunger Pump	
BSP-A030	BSP-A030-T	PP-7021B	PP-1051B
Aluminum	Aluminum Teflon coating	Aluminum	Aluminum
3:1		2.3:1	4.6:1
0.15~0.7MPa		0~0.7MPa	0~0.6MPa
2.1MPa		1.7MPa	2.7MPa
570ml/Cycle		90ml/Cycle	150ml/Cycle
70Cycles/min		50Cycles/min	50Cycles/min
40ℓ/min		4.5ℓ/min	7.5ℓ/min
17.1ℓ/min		2.7ℓ/min	4.5ℓ/min
— 10,000cps		100s/NK-2 300cps	
●	●	—	—
—	—	●	●
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

● Standard  
△ Custom versions available



# Diaphragm paint pump

## 1. Stable output

Minimal pulsation

## 2. Easy clean up and color changes

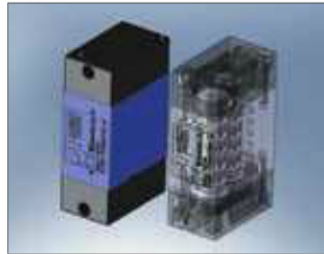
All end bells are mirror polished to reduce the time associated with clean up and color changes.

Users can also reduce wasted coatings and solvents.

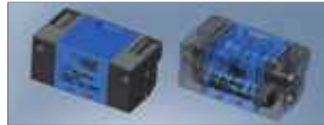
## 3. Many configurations and sized to meet your needs.

We have many sizes, varieties and configurations of diaphragm pumps. One of which can be easily adapted to your specific needs.

Air operating valve.

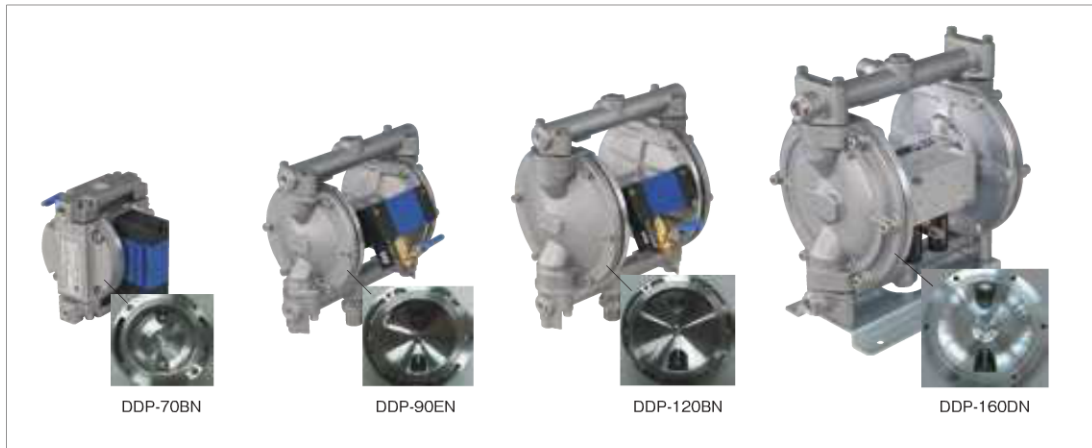


DDP-70B



DDP-90E/-120B

Lid Inner



## Operating principle of diaphragm pump

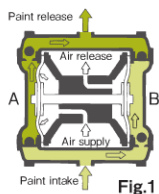


Fig.1

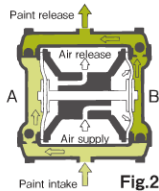
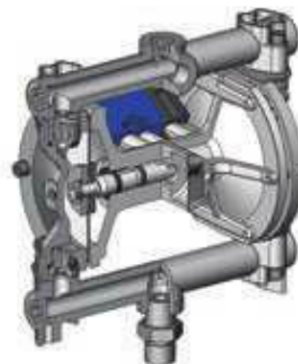


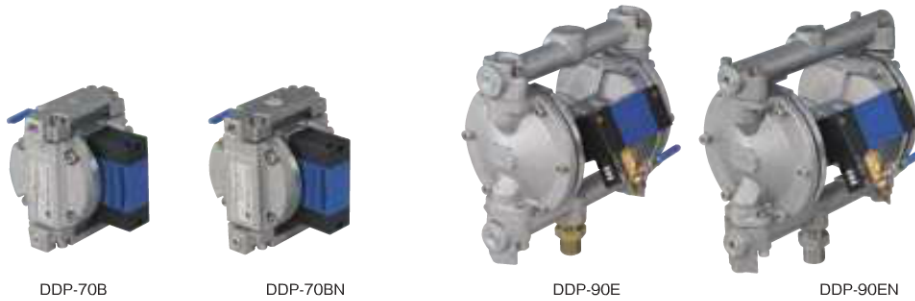
Fig.2

A very simple construction. Movement of 2 diaphragms, fitted to both ends of the rod, pressurizes and releases paint. Compressed air enters A side air chamber of fig.1 and pushes diaphragm towards left, which releases paint. At the same time, B side diaphragm connected to rod moves towards left also and sucks paint. When the rod moves to left fully, air valve changes over. Compressed air enters B side air chamber of fig.2 and pushes diaphragm towards right, which releases paint. At the same time, A side diaphragm sucks paint. Pump repeats above movement of continuous suction and release, resulting in stable flow without pulsation.



DDP section

# Diaphragm paint pump series



Model	DDP-70B	DDP-70BN	DDP-90E	DDP-90EN
Material of wetted parts	Aluminum	Stainless	Aluminum	Stainless
Pressure ratio	1:1		1:1	
Adjustable pressure range	0.15~0.7MPa		0.15~0.7MPa	
Paint output/cycle	20ml/cycle		50ml/cycle	
Max. Cycle No.	300cycle/min		200cycle/min	
Max. Paint output *1	6ℓ/min		10ℓ/min	
Normal paint output (30cycle/min)	0.6ℓ/min		1.5ℓ/min	
Max. Paint viscosity *2	60s/NK-2 190cPs		100s/NK-2 300cPs	
Paint temperature	5~40°C		5~40°C	
Air inlet	G1/4B (PF1/4male)		G1/4B (PF1/4male)	
Paint inlet	Rc1/4 (PT1/4female)		G1/2B (PF1/2male)	
Paint outlet	Rc1/4 (PT1/4female)		Rc3/8 (PT3/8female)	
Mass	2kg	3.2kg	3.1kg	5kg
Dimensions (LxWxH)	173×113×143mm		186×213×220mm	
Mounting dimensions				
Performance curve	<p>*0.3/0.5/0.7MPa in graph shows air pressure. *Test by turpentine.</p>		<p>*0.3/0.5/0.7MPa in graph shows air pressure. *Test by turpentine.</p>	
Required compressor (for pump)	0.4~0.75kW		0.4~0.75kW	

\*1 Fluid: clear water, no-load, simple body of pump, part of paint output

\*2 Suction hose and pipe arrangement can change Max viscosity.

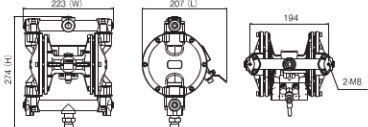
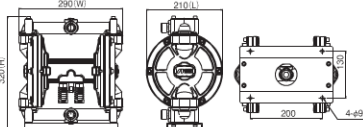
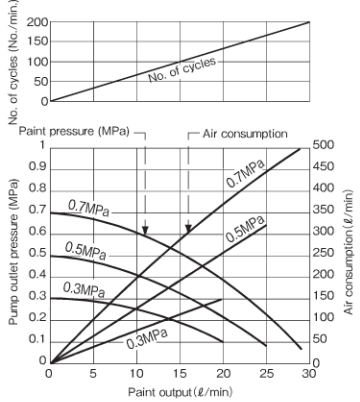
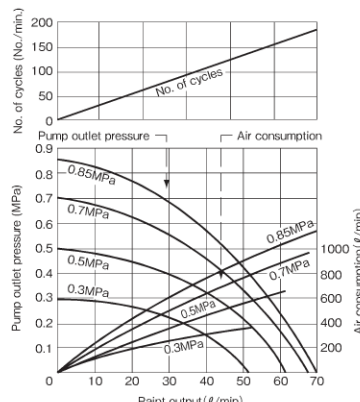


DDP-120B

DDP-120BN

DDP-160D

DDP-160DN

Model	DDP-120B	DDP-120BN	DDP-160D	DDP-160DN
Material of wetted parts	Aluminum	Stainless	Aluminum	Stainless
Pressure ratio	1:1		1:1	
Adjustable pressure range	0.15~0.7MPa		0.15~0.85MPa	
Paint output/cycle	150ml/cylce		330ml/cylce	
Max. Cycle No.	200cycle/min		200cycle/min	
Max. Paint output*1	30ℓ/min		66ℓ/min	
Normal paint output (30cycle/min)	4.5ℓ/min		10ℓ/min	
Max. Paint viscosity*2	100s/NK-2 300cPs		— 3,000cPs	
Paint temperature	5~40°C		5~40°C	
Air inlet	G1/4B (PF1/4male)		G1/4B (PF1/4male)	
Paint inlet	G1/2B (PF1/2male)		G3/4B (PF3/4male)	
Paint outlet	Rc3/8 (PT3/8female)		G3/4B (PF3/4male)	
Mass	4kg	7.2kg	11kg	16.5kg
Dimensions (LxWxH)	207×223×274mm		210×290×320mm	
Mounting dimensions				
Performance curve	 <p>*0.3/0.5/0.7MPa in graph shows air pressure. *Test by turpentine.</p>		 <p>*0.3/0.5/0.7MPa in graph shows air pressure. *Test by turpentine.</p>	
Required compressor (for pump)	0.4~1.5kW		1.5~3.7kW	

\*About lubricant agent, medicinal solution, or non-coating usage, please contact us with information of your fluid, pH, viscosity, fluid feature.



# Diaphragm paint pump variation type



Type	Pail-mount	Transfer pump for pail	Stand Mount							
Pump set Model	DPS-70C	DPS-70TC	DPS-90E	DPS-90EN	DPS-120B	DPS-120BN	DPS-704C	DPS-704CN	DPS-90.	
Diaphragm Pump	Model	DDP-70B	DDP-90E	DDP-90EN	DDP-120B	DDP-120BN	DDP-70B	DDP-70BN	DDP-9C	
	Material of wetted parts	Aluminum	Aluminum	Stainless	Aluminum	Stainless	Aluminum	Stainless	Aluminum	
	Normal paint output (30cycle/min)	0.6ℓ/min	1.5ℓ/min		4.5ℓ/min		0.6ℓ/min			
	Max. Paint output *1	6.0ℓ/min	10.0ℓ/min		30ℓ/min		6.0ℓ/min			
	Adjustable pressure rang	0.15~0.7MPa		0.15~0.7MPa				0.		
Paint Regulator	Model	PR-5B	not included	PR-5B	PR-5BN	PR-5B	PR-5BN	PR-5B	PR-5BN	PR-5B
	Material of wetted part	Aluminum	—	Aluminum	Stainless	Aluminum	Stainless	Aluminum	Stainless	Aluminum
	Adjustable pressure range	0~0.6MPa	—	0~0.6MPa						(
	Max Flow	2.0ℓ/min	—	2.0ℓ/min						
Max. Paint viscosity *1	60s/NK-2 190cPs		100s/NK-2 300cPs							
Paint temperature	5~40°C			5~40°C						
Air inlet / Paint outlet	G1/4B(PF1/4male)			G1/4B(PF1/4male)				G1/4		
Paint filter	50mesh	not included	50mesh							
Option	Paint filter	TF-7:100mesh	—	TF-7:100mesh	—	TF-7:100mesh	—	TF-7:100mesh	—	TF-7:100n
	Agitator	—	—	—	—	—	—	—	—	—
	Paint regulator for 2 spray guns	PR-5B-S1	—	PR-5B-S1	PR-5BN-S1	PR-5B-S1	PR-5BN-S1	PR-5B-S1	PR-5BN-S1	PR-5B-S
Dimensions (LxWxH)	173x393x663mm	173x213x515mm	360x348x781mm		366x357x823mm		173x307x364mm		356	
Mass	4kg	3kg	7kg	9kg	8kg	11kg	4kg	5kg	6kg	
Required compressor (for pump)	0.4~0.75kW	0.75~1.5kW	0.4~0.75kW		0.4~1.5kW		0.4~0.75kW			

\*1 Suction hose and pipe arrangement can change Max viscosity. \*Each type has stainless version. If you need, please consult us.



DPS-90LE  
Pail tank is not included  
Mixer is optional



DPS-120LB

Pump Elevated

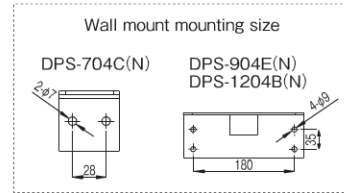


DPS-704C



DPS-904E

DPS-1204



S-70LC  
er is option

hopper				
4E	DPS-904EN	DPS-1204B	DPS-1204BN	HDP-705C
5E	DDP-90EN	DDP-120B	DDP-120BN	DDP-70B
6m	Stainless	Aluminum	Stainless	Aluminum
	1.5ℓ/min	4.5ℓ/min	0.6ℓ/min	
	10.0ℓ/min	30ℓ/min	6.0ℓ/min	
	0.15~0.7MPa			0.15~0.7MPa
7i	PR-5BN	PR-5B	PR-5BN	PR-5B
8m	Stainless	Aluminum	Stainless	Aluminum
	0~0.6MPa			0~0.6MPa
	2.0ℓ/min			2.0ℓ/min
	100s/NK-2 300cPs		60s/NK-2 190cPs	
	5~40℃		5~40℃	
	G1/4B(PF1/4male)			G1/4B(PF1/4male)
	50mesh			50mesh
9mesh	—	TF-7:100mesh	—	TF-7:100mesh
	—	—	—	AMM-722B
10S1	PR-5BN-S1	PR-5B-S1	PR-5BN-S1	PR-5B-S1
	269×449mm		356×269×491mm	
	7kg		10kg	
	6kg		8kg	
	0.4~1.5kW		0.4~0.75kW	

Type	Elevator Stand Type (Pail)						
Pump set Model	DPS-70LC	DPS-70LCN	DPS-90LE	DPS-90LEN	DPS-120LB	DPS-120LBN	
Diaphragm Pump	Model	DDP-70B	DDP-70BN	DDP-90E	DDP-90EN	DDP-120B	DDP-120BN
	Material of wetted parts	Aluminum	Stainless	Aluminum	Stainless	Aluminum	Stainless
	Normal paint output (30cycle/min)	0.6ℓ/min		1.5ℓ/min		4.5ℓ/min	
	Max. Paint output *1	6.0ℓ/min		10.0ℓ/min		30ℓ/min	
Paint Regulator	Adjustable pressure rang	0.15~0.7MPa					
	Model	PR-5B	PR-5BN	PR-5B	PR-5BN	PR-5B	PR-5BN
	Material of wetted part	Aluminum	Stainless	Aluminum	Stainless	Aluminum	Stainless
	Adjustable pressure range	0~0.6MPa					
Max Flow	2.0ℓ/min						
Max. Paint viscosity *1	60s/NK-2 190cPs			100s/NK-2 300cPs			
Paint temperature	5~40℃						
Air inlet / Paint outlet	G1/4B(PF1/4male)						
Paint filter	50mesh						
Option	Paint filter	TF-7:100mesh	—	TF-7:100mesh	—	TF-7:100mesh	—
	Agitator	AMM-721B		AMM-721B		AMM-721B	
	Paint regulator for 2 spray guns	PR-5B-S1	PR-5BN-S1	PR-5B-S1	PR-5BN-S1	PR-5B-S1	PR-5BN-S1
Dimensions (LxWxH)	390×260×823mm (Elevated height 1,120mm)		390×260×823mm (Elevated height 1,174mm)		390×260×823mm (Elevated height 1,211mm)		
Mass	16kg	18kg	17kg	19kg	18kg	22kg	
Required compressor (for pump)	0.4~0.75kW				0.4~1.5kW		

\*1 Suction hose and pipe arrangement can change Max viscosity. \*Each type has stainless version. If you need,