

# Diaphragm Pump Series



DDP-70B



DDP-70BN



DDP-90E



DDP-90EN



DDP-120B



DDP-120BN



DDP-160D



DDP-160DN

Pump model	DDP-70B	DDP-70BN	DDP-90E	DDP-90EN
Wetted parts material (pump body) <sup>1</sup>	Aluminum	Stainless steel	Aluminum	Stainless steel
Pressure ratio	1:1		1:1	
Operating air pressure range	0.15 to 0.7 MPa		0.15 to 0.7 MPa	
Fluid output per cycle	20 mL/cycle		50 mL/cycle	
Maximum cycles	300 cycles/min		200 cycles/min	
Maximum fluid output <sup>2</sup>	6 L/min		10 L/min	
Fluid output at 30 cycles/min	0.6 L/min		1.5 L/min	
Allowable viscosity (guideline values) <sup>3</sup>	Max. 60 sec / NK-2 Max. 190 mPa·s		Max. 100 sec / NK-2 Max. 300 mPa·s	
Operating temperature range	5 to 40 °C		5 to 40 °C	
Air inlet	G1/4B		G1/4B	
Paint inlet	Rc1/4		G1/2B	
Paint outlet	Rc1/4		Rc3/8	
Mass	2 kg	3.2 kg	3.1 kg	5 kg
Dimensions (L × W × H)	173 × 113 × 143 mm		186 × 213 × 220 mm	
Mounting dimensions				
Performance curves	<p>* 0.3, 0.5, 0.7 MPa on the graph indicate air pressure. * The oil used in testing is turpentine oil.</p>		<p>* 0.3, 0.5, 0.7 MPa on the graph indicate air pressure. * The oil used in testing is turpentine oil.</p>	
Compressor requirements (for pump operation)	0.4 to 0.75 kW		0.4 to 0.75 kW	

Pump model	DDP-120B	DDP-120BN	DDP-160D	DDP-160DN
Wetted parts material (pump body) <sup>1</sup>	Aluminum	Stainless steel	Aluminum	Stainless steel
Pressure ratio	1:1		1:1	
Operating air pressure range	0.15 to 0.7 MPa		0.15 to 0.83 MPa	
Fluid output per cycle	150 mL/cycle		330 mL/cycle	
Maximum cycles	200 cycles/min		200 cycles/min	
Maximum fluid output <sup>2</sup>	30 L/min		66 L/min	
Fluid output at 30 cycles/min	4.5 L/min		10 L/min	
Allowable viscosity (guideline values) <sup>3</sup>	Max. 100 sec / NK-2 Max. 300 mPa·s		— Max. 3,000 mPa·s	
Operating temperature range	5 to 40 °C		5 to 40 °C	
Air inlet	G1/4B		G1/4B	
Paint inlet	G1/2B		G3/4B	
Paint outlet	Rc3/8		G3/4B	
Mass	4 kg	7.2 kg	11 kg	16.5 kg
Dimensions (L × W × H)	207 × 223 × 274 mm		210 290 × 320 mm	
Mounting dimensions				
Performance curves	<p>* 0.3, 0.5, 0.7 MPa on the graph indicate air pressure. * The oil used in testing is turpentine oil.</p>		<p>* 0.3, 0.5, 0.7 MPa on the graph indicate air pressure. * The oil used in testing is turpentine oil.</p>	
Compressor requirements (for pump operation)	0.4 to 1.5 kW		1.5 to 3.7 kW	

<sup>1</sup> Aluminum pumps use plated steel components for joints and other wetted parts.  
We recommend using stainless steel pumps for applications involving fluids that may cause corrosion.  
<sup>2</sup> Value at the paint outlet when using the pump on its own with no load and clean water as the fluid  
<sup>3</sup> The allowable viscosity will vary depending on the suction hose and output piping.

<sup>1</sup> When used as a fluid transfer pump for non-paint fluids such as lubricants or chemicals, check the pH, viscosity, and fluid properties. Contact your nearest ANEST IWATA sales office if you have any questions.