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DP-F standard pump series : Air switching type

DP-F Series

The DP-F Series pump range offers 5 different sized models of clean room menufactured process pumps suitable for high purity and corrosive applications. Utilizing the patented Yamada C-Spool these pumps are simple and easily installed into a process system.

DP-5F



DP-10F



DP-20F

DP-25F



DP-38F

Specification

Model name		DP-5F※1	DP-10F		DP-20F		DP-25F ※2	DP-38F ※2
Nominal port size		1/4″(8A)	3/8″（10A）		3/4″（20A）		1″（25A）	1″（25A）
Connection to liquid	Inlet	Rc1/4（F）	Rc3/8（F） ※3	JIS 10A flange or equivalent	Rc3/4（F） ※3	JIS 20A flange or equivalent	JIS 25A flange or equivalent	
	Outlet							
（）※5	Inlet （）	Rc1/4（F）					Rc3/8（F）	Rc1/2（F）
	Exhaust	Rc3/8（F） (silencer contained)	Rc3/8（F） (silencer contained)				Rc3/4（F） (silencer contained)	
	Wetted body	Fluoric resin （PTFE PFA）						
	Diaphragm,	Fluoric resin						

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PRODUCTS

- Piston pump
- Ink pump
- Diaphragm pump
- Lubrication Equipment
- Automotive Equipment
- Grease Gun
- Hose Reel
- Control equipment
- EXS SERIES

About Yamada

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Export Control

Catch all controls

Yamada Export Licence Requirements

Material	Valve, Seat	□PTFE□				
	Non Wetted body	PPS resin	Polypropylene □PP□		High-density polyethylene □HDPE□	
Air supply pressure range		0.2□0.5MPa			0.2□0.7MPa	
Max discharge pressure		0.5MPa			0.7MPa	
Discharge volume/cycle※4		13□L	65□L	150□L	300□L	700□L
Max discharge volume※6		11L/min	27L/min	54L/min	64L/min	95L/min
Max air consumption		170 L/min(ANR)	250 L/min(ANR)	350 L/min(ANR)	900 L/min(ANR)	1500 L/min(ANR)
Max slurry diameter※7		—	1mm or smaller	2mm or smaller	3mm or smaller	
Viscosity limit		0.5Pa-s or lower	1Pa-s or lower	2Pa-s or lower	2.5Pa-s or lower	
Environmental temperature range	Ambient temperature range	0□70℃				
	Liquid temperature range	0□80℃				
Noise level		71□B	82□B	85□B	88□B	90□B
Weight		3.4□□	6.7□□	7.2□□	14.6□□	15.5□□	32□□	52□□

※1□The DP-5F valve is a flat (plate) type.

※2□Since a DP-25F and a DP-38F are to be produced on orders, be sure to check the delivery date.

※3□The suction inlet or discharge outlet of a DP-10F/20F pump can be connected with an NPT screw orANSI flange (custom-designed) as well as a standard RC screw or flange.

※4□The maximum discharged liquid amount and/or self-suction capability are based on the test datameasured with using fresh water at the room temperature (20oC). In addition, the amount of dis-charged liquid varies depending on the supplied air pressure or pump head. Please check the per-formance curve for details.

※5□Use the clean air that has passed through a 1-μm filter or nitrogen gas (N2) as air to be supplied tothe pump.

□When you use a resin pump, it may not offer the designed performance due to significant change oftemperature. To maintain its performance, be careful to install the pump or store its parts.

□Any flat valve type of pumps cannot handle slurry.

Exploded view and Parts list

Valve type	Connection		
	Pump size	Screw□PT□	Flange
Ball	5	—	—
	10	853620	853622
	20	853621	853623
	25	—	853601
	38	—	853606
Flat	5	853656	—
	10	853628	853630
	20	853629	853631
	25	—	853614
	38	—	853617

Dimensions□Performance Curve

Dimensions □PDF)	**Performance Curve □PDF□**

DP-5F	DP-5F□FH
DP-5FH	
DP-10F(Rc)	DP-10F
DP-10F(Flange)	
DP-20F(Rc)	DP-20F
DP-20F(Flange)	
DP-25F	DP-25F
DP-38F	DP-38F

Manuals, CAD datas

Model	Operation manual (PDF)	Maintenance manual (PDF)	CAD data □DXF□
DP-5F	NDP 209U-12	NDP 032M-14	DP-5F(PT)
DP-5FH			DP-5FH
DP-10F			DP-10F(PT) DP-10F(FL)
DP-20F			DP-20F(PT) DP-20F(FL)
DP-25F			DP-25F(FL)
DP-38F			DP-38F(FL)



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