



**PB PROCESS PUMP (Diaphragm Pump)**  
Compact, large capacity diaphragm pump, suitable for transferring and collecting a wide range of fluids.

**FEATURES & BENEFITS**

- Smaller, lighter, 25% reduction in volume compared with current PB series.
- Long service life (1.5x greater than the PB series)
- Weight 0.11 kg
- Easy to adjust the flow rate by the frequency of ON/OFF of the solenoid valve
- Polypropylene stainless steel 316 body wetted parts



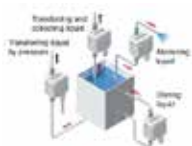
- Discharge 8 to 2000 ml/min
- Low particle generation due to the diaphragm structure
- Flammable fluids can be used
- Self-priming makes priming unnecessary, removing liquid even if the pump is dry
- Assembled in a clean room. Double packaged (PB1313A)
- Built-in solenoid valve/air operated series PB1000A

**PROCESS PUMP VARIATIONS**

SERIES	Actuation	Discharge (ml/min)	Material				Port size	Made to Order
			Body wetted parts	Diaphragm	Check valve	Liquid contact seals		
PB1011A	Built-in solenoid valve	8 to 2000	Polypropylene (PP) Stainless steel (SUS316)	PTFE PP	PTFE PP	FKM	1/8 female thread	-
PB1013A	Air operated	8 to 1000						Liquid contact seals SF7000 With bracket which is interchangeable with previous type
PB1313A	Air operated	8 to 1000	New PFA	PTFE	PTFE New PFA	PTFE	1/8 female thread, 1/4" tube extension, With nut (LQ1/LQ3)	-

**APPLICATIONS**

- Installation example



- Printing machine - head cleaning liquid transfer



- Machine tool - coolant liquid collection



- Related to semiconductor/solar cell - cleaning liquid (e.g. DI water)



## SPECIFICATIONS



		SERIES PB1000A VALVE/AIR OPERATED BUILT-IN SOLENOID VALVE AIR	
MODEL		PB1011A	PB1013A
Actuation		Built-in solenoid valve	Air operated
Port Size	Main fluid suction discharge port	Rc, NPT, G 1/8" female thread	
	Pilot air	Supply port	Rc, NPT, G 1/8" female thread
		Exhaust port	M5 x 0.8 female thread
Material	Body wetted areas	Polypropylene (PP), Stainless steel (SUS316)	
	Diaphragm	PTFE	
	Check valve	PTFE, Polypropylene (PP)	
	Liquid contact seals	FKM	
Discharge rate		8 to 2000 ml/min	8 to 1000 ml/min
Average discharge pressure		0 to 0.6 MPa	
Pilot air pressure		0.2 to 0.7 MPa	
Air consumption		40 l/min (ANR) or less	
Suction head		Up to 2.5 metre (dry state inside the pump)	
Noise		64 dB (A) or less (Option: with silencer AN120-M5)	
Withstand pressure		1.05 MPa	
Diaphragm life		30 million cycles	
Fluid Temperature		0 to 50° (No freezing, heat cycle not applied)	
Ambient Temperature		0 to 50° (No freezing, heat cycle not applied)	
Recommended operating temperature		1 to 10 Hz	
Pilot air solenoid valve recommended Cv value		-	0.2
Weight		0.18 kg	0.11 kg
Mounting orientation		FLUID OUT port upside	
Packaging		General environment	
Maximum viscosity		100 mPa.s	
Power supply voltage		24 VDC	-
Power consumption		0.35 W	www



### ORDERING CODES

# PB101

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Actuation

Symbol	Actuation
1	Built-in solenoid valve
3	Air operated

Made to Order

-	None
X16	Liquid contact seals with SF7000
X47	With bracket which is interchangeable with previous type

Thread type

Symbol	Type
-	Rc
N	NPT
F	G

Option

Symbol	Option	Applicable actuation	
		Built-in solenoid valve	Air operated
-	None	●	●
B	With foot	●	●
N	With silencer	●	-

Port size

Symbol	Port size
01	1/8



**Service & Warranty:** For technical assistance, warranty replacement or repair contact your distributor:

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