

Series Variations

Diaphragm type process pump — chose according to fluid, size, function and purpose

Modified PTFE used as diaphragm material.
Product longevity has been achieved with improved durability.



PA Series

P.553



PA5000

PA3000

- Compact, large volume general purpose pump
- Designed for low particle generation, with no sliding part on the wetted part

Max. flow 45 L/min	Automatically operated/ Air operated	Built-in solenoid valve	Built-in pulsation attenuator
Metal wetted parts	ATEX	Clean Wet	LQ fittings compatible
Non-metal	Resin coated metal parts	Compatible with leakage sensor	Stroke sensor compatible

PAP Series

P.565



PAP3000

- Clean Wet Series
- 100% fluoropolymer wetted part (cannot be used for acid and alkali-based liquids)

Max. flow 13 L/min	Automatically operated/ Air operated	Built-in solenoid valve	Built-in pulsation attenuator
Fluoropolymer wetted parts	ATEX	Clean Wet	LQ fittings compatible
Non-metal exterior	Resin coated metal parts	Compatible with leakage sensor	Stroke sensor compatible

PAF Series

P.595



PAF5000

- Non-metallic pump
- PPS/PFA dual construction
- Improved pressure resistance, and compactness unique to SMC achieved

Max. flow 45 L/min	Automatically operated/ Air operated	Built-in solenoid valve	Built-in pulsation attenuator
Fluoropolymer wetted parts	ATEX	Clean Wet	LQ fittings compatible
Non-metal	Resin coated metal parts	Compatible with leakage sensor	Stroke sensor compatible

PAX Series

P.574



PAX1000

- Bumper not needed
- Separate piping not required
- Built-in pulsation attenuator

Max. flow 10 L/min	Automatically operated	Built-in solenoid valve	Built-in pulsation attenuator
Metal body wetted parts	ATEX	Clean Wet	LQ fittings compatible
Non-metal	Resin coated metal parts	Compatible with leakage sensor	Stroke sensor compatible

PB1313A Series

P.581



PB1313A

(Cannot be used for acids and alkali-based liquids)

- Body wetted parts made of all fluoropolymer, Compact pump for DI water/chemical liquids

Max. flow 1 L/min	Air operated	Built-in solenoid valve	Built-in pulsation attenuator
Fluoropolymer wetted parts	ATEX	Clean Wet	LQ fittings compatible
Non-metal exterior	Resin coated metal parts	Compatible with leakage sensor	Stroke sensor compatible

PB Series

P.581



PB1000A

- Compact, large capacity diaphragm pump, suitable for transferring and collecting a wide range of fluids

Max. flow 2 L/min	Air operated	Built-in solenoid valve	Built-in pulsation attenuator
Polypropylene wetted part	ATEX	Clean Wet	LQ fittings compatible
Non-metal	Resin coated metal parts	Compatible with leakage sensor	Stroke sensor compatible

Viewing the features of each product

... If compatible products are available within a series, they are marked in blue.

Max. flow 13 L/min	Automatically operated/ Air operated	Built-in solenoid valve	Built-in pulsation attenuator
Wetted parts fluoropolymer	ATEX	Clean Wet	LQ fittings compatible
Non-metal exterior	Resin coated metal parts	Compatible with leakage sensor	Stroke sensor compatible

Greyed out if compatible products are unavailable.

Note

- ATEX--CE explosion proof directive's Group II category 3 suited product.
- Clean Wet--mounted inside the clean room.
- Refer to page 624 for a detailed applicable fluids list.
- Refer to the pages in the table below for made to order products.

PA3000/5000	PA(P)	PAX	PB1000A	PB1313A	PAF
P.563,564	—	—	P.588	—	P.617

- Refer to the pages in the table below for part numbers of maintenance parts.

PA	PA(P)	PAX	PB1000A	PB1313A	PAF
P.558	P.570	P.577	P.586	P.592	P.606

- Please read the precautions on pages 626 to 629 before using the products.
- Non-metal exterior--All parts except for wetted parts are metal.
- All metal parts coated in resin--Metal parts are coated in resin and are not exposed.

Series Variations

PA Series/Double acting pump

Series	Model	Actuation	Discharge rate L/min	Material		Details		
				Body	Diaphragm			
PA3000	PA3□□0	Automatically operated type	1 to 20	ADC12 (Aluminum) SCS14 (Stainless steel)	PTFE NBR	P.554		
	PA3□13	Air operated type	0.1 to 12					
PA5000	PA5□□0	Automatically operated type	5 to 45					
	PA5□13	Air operated type	1 to 24				P.555	
PAP3000	PAP3310	Automatically operated type	1 to 13			NewPFA (Fluororesin)		PTFE
	PAP3313	Air operated type	0.1 to 9					
PAX1000	PAX1□12	Automatically operated type, built-in pulsation attenuator	0.5 to 10	ADC12 (Aluminum) SCS14 (Stainless steel)	PTFE	P.575		

PB Series/Single acting pump

Series	Model	Actuation	Discharge rate L/min	Material		Details
				Body	Diaphragm	
PB1000A	PB1011A	Built-in solenoid valve type	0.008 to 2	Polypropylene Stainless steel 316 (Stainless steel)	PTFE	P.584
	PB1013A	Air operated type	0.008 to 1			
	PB1313A	Air operated type	0.008 to 1	NewPFA (Fluororesin)	PTFE	P.589

PAF Series/Double acting pump

Series	Model	Actuation	Discharge rate L/min	Material		Details
				Body	Diaphragm	
PAF3000	PAF3410	Automatically operated type	1 to 20	NewPFA (Fluororesin)	PTFE	P.598
	PAF3413	Air operated type	1 to 15			
PAF5000	PAF5410	Automatically operated type	5 to 45			
	PAF5413	Air operated type	5 to 38			P.599

Application Examples

