

Process Pumps

Process Pump/Double Acting Pump **PA/PAP/PAX**



Series	Actuation	Discharge rate [L/min]	Wetted parts material
PA3□□0	Automatically operated type	1 to 20	ADC12 (Aluminum) SCS14 (Stainless steel)
PA3□13	Air operated type	0.1 to 12	ADC12 (Aluminum) SCS14 (Stainless steel)
PA5□□0	Automatically operated type	5 to 45	ADC12 (Aluminum) SCS14 (Stainless steel)
PA5□13	Air operated type	1 to 24	ADC12 (Aluminum) SCS14 (Stainless steel)
PAP3310	Automatically operated type	1 to 13	New PFA (Fluororesin)
PAP3313	Air operated type	0.1 to 9	New PFA (Fluororesin)
PAX1□12	Automatically operated type, Built-in pulsation attenuator	0.5 to 10	ADC12 (Aluminum) SCS14 (Stainless steel)

Process Pump/Single Acting Pump **PB**



Series	Actuation	Discharge rate [mL/min]	Wetted parts material
PB1011A	Built-in solenoid valve	8 to 2000	Polypropylene Stainless steel 316
PB1013A	Air operated type	8 to 1000	Polypropylene Stainless steel 316
PB1313A	Air operated type	8 to 1000	New PFA (Fluororesin)

Non-Metallic Pump/Double Acting Pump **PAF**



Series	Actuation	Discharge rate [L/min]	Wetted parts material
PAF3410	Automatically operated type	1 to 20	New PFA (Fluororesin)
PAF3413	Air operated type	1 to 15	New PFA (Fluororesin)
PAF3410-X68*	Automatically operated type	1 to 20	New PFA (Fluororesin)
PAF5410	Automatically operated type	5 to 45	New PFA (Fluororesin)
PAF5413	Air operated type	5 to 38	New PFA (Fluororesin)

* Tightening bolt, Air switching valve: Stainless steel
Use the PAF series standard products when a metal-free pump is necessary for hydrofluoric acid, etc.