



PA PROCESS PUMP SERIES PA3000

The PA process pump series is a compact, high capacity diaphragm pump for transfer and recovery of a wide variety of fluids. The pump is available in two types - an automated operated and air operated type also with solenoid or air pilot actuation.



FEATURES & BENEFITS

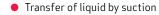
- Long life, 2 to 5 times that of convetional pumps
- High abrasion resistance and low particle generation
- Self-priming makes priming unnecessary
- No sliding parts in wetted areas
- Incorporates a new diaphragm material
- Enlarged bore size and shortened stroke extend life

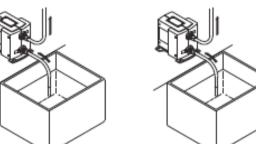
PROCESS PUMP VARIATIONS



SERIES	Model	Action		Discharge flow rate l/min	Material	
				rate l/min	Body	Diaphragm
PA3000 PA5000	PA3110	Automatically operated type	AIR SUP FLUID OUT FLUID IN	1 to 20	ADC12 (aluminum SCS14 stainless steel)	PTFE NBR
	PA5110			5 to 45		
	PA3113	Air operated	PI FLUID OUT	0.1 to 12		PTFE
	PA5113	type		1 to 24		
PAX1000	PAX112	Automatically operated type with built-in pulsation attenuator	AIR SUP FLUID OUT AIR EXH FLUID IN	0.5 to 10	ADC12 (aluminum SCS14 stainless steel)	PTFE

APPLICATIONS

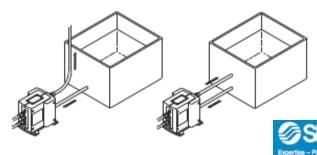




Atmomising liquid

Transfer of liquid by pressure

Stirring of liquid





SPECIFICATIONS



		AUTOMATICALLY OPERATED PROCESS PUMP						
MODEL		PA3110 PA3200 PA510		A510	PA5210			
Actuation		Automatically operated						
Port Size	Main fluid suction discharge port	Rc, NPT, G, NPTF 3/8" Female thread						
1 of t Stze	Pilot air supply/ exhaust port		male thread					
Material	Body wetted areas	ADC12	2	L	SCS14	-		
	Diaphragm	PTFE, NBR						
	Check valve	PTFE, PFA						
Discharge rate		1 to 20 l/min				5 to 45 l/min		
Average discharge pressure		0 to 0.6 MPa			0 to 0.6 MPa			
Pilot air pre	ssure	0.2 to 0.7 MPa			0.2 to 0.7 MPa			
Air consump	otion	Max 200 min (ANR) or less				Max 200 min (ANR) or less		
Suction lifting	Dry	1 m (interior o	of pump dry)	mp dry) Up to 2m (interior pump dry)		f		
range	Wet	Up to 6 m (liquid inside pump)						
Noise			80 dB (A) or less (Option: with silencer, AN20)		78 dB (A) or less (Option: with silencer, AN20)			
Recommend	ded operating			<u> </u>	-			
Pilot air solo recommend	enoid valve ed Cv factor				-			
Diaphragm I	ife	PA3110: 10 PA3120: 5	PA3110: 100 million times PA3120: 50 million times		50 million times			
Fluid Temperature		0 to 60°C (with no freezing)						
Ambient Temperature		0 to 60°C (with no freezing)						
Withstand pressure		1.05 MPa						
Mounting position		Horizontal (with mounting foot at bottom)						
Weight		1.7 kg	2.2 kg		3.5 kg	6.5 kg		
Packaging		General Environment						





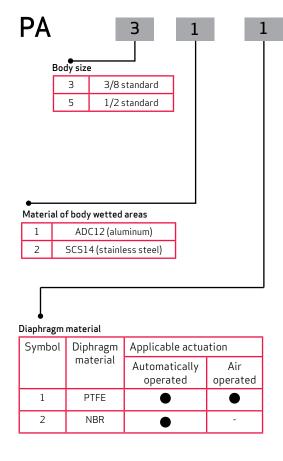
		AIR OPER	ATED TYPE PROCESS F	PUMP			
		PA3113	PA3213	PA5113	PA5213		
Actuation		Air operated					
Port Size	Main fluid suction discharge port	Rc, NPT, G, NPTF 3/8, Female thread		Rc, NP	Rc, NPT, G, NPTF, 1/2, 3/4. Female thread		
	Pilot air supply/ exhaust port	Rc, NPT, G, NPTF, 1/4. Female thread		Rc, t	Rc, NPT, G, NPTF, 1/4 Female thread		
	Body wetted areas	ADC12	SCS14	ADC12	SCS14		
Material	Diaphragm			PTFE	PTFE		
	Check valve			PTFE, PFA	IFE, PFA		
Discharge rate		0.1 to 12 l/min		(0.1 to 24 l/min		
Average discharge pressre		0 to 0.4 MPa			0 to 0.4 MPa		
Pilot air pressure		0.1 to 0.5 MPa		(0.1 to 0.5 MPa		
Air consumption		Maximum 150 l/min (ANR)		Maxim	Maximum 250 I/min (ANR)		
Suction lifting	Dry	1 m (interior pump dry)		1 m (1 m (interior pump dry)		
range	Wet		Up to 6:	m (liquid inside pump)	quid inside pump)		
Noise		72 dB (A) or less (excluding the noise from the quick exhaust and solenoid valve)					
Recommended operating cycle		1 to 7 Hz (0.2 to 1 Hz also possible depending on conditions)					
Pilot air solenoid valve recommended CV factor		0.20			0.45		
Diaphragm life		50 million times					
Fluid temperature		0 to 60°C (with no freezing)					
Ambient temperature		0 to 60°C (with no freezing)					
Withstand pressure		0.75 MPa					
Mouting position		Horizontal (with mounting foot at bottom)					
Weight		1.7 kg	2.2 kg	3.5 kg	6.5 kg		
Packaging		General environment					

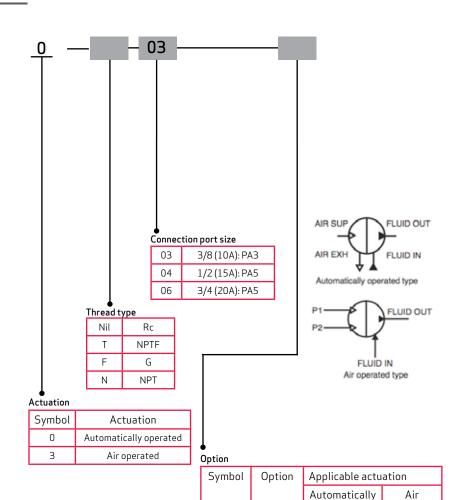




ORDERING CODES







Nil

Body only
With
silencer



operated

operated