

SPELA 300 PILLAR BELLOWS PUMP PS-E SERIES

PTFE Bellows Pump with No pulsation. More Compact.



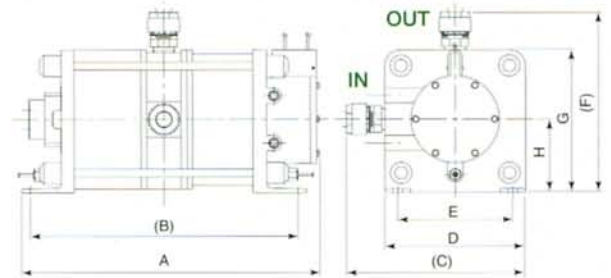
**PS-E10MA
E20MA
E40MA**
For Cleaning equipment

PS-E2MA
For Single wafer
processing cleaner

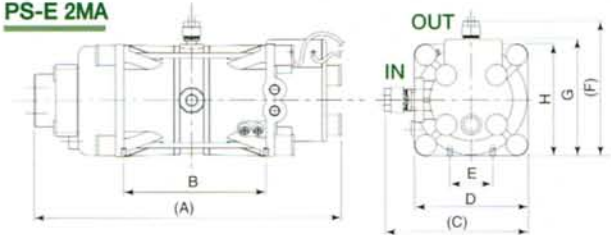
Features

- 1] Minimized pulsation pressure.
Average pulsation pressure rate is within $\pm 12.5\%$
- 2] As compact as our current model, PE series pump.
- 3] VA design makes cost reduction possible.

PS-E 10MA, PS-E 20MA, PS-E 40MA



PS-E 2MA



DIMENSIONS (mm)

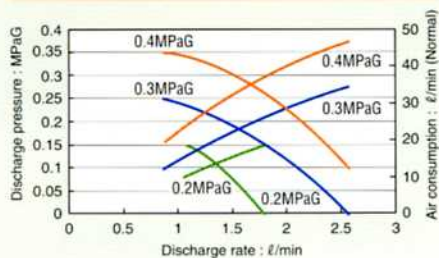
	A	B	(C)				D	E	(F)			
			SUPER FITTING		SUPER 300 FITTING				SUPER FITTING	SUPER 300 FITTING	G	H
			J	P	J	P						
PS-E 2MA	286	132	136	134	136	106	40	129	128	130	111	106
PE-E 10MA	330	285	191	186	188	138	112	184	181	183	143	74
PE-E 20MA	373	335	229	224	226	176	144	234	229	231	181	93
PE-E 40MA	449	395	274	270	272	210	172	279	275	277	215	110

Type	PS-E 2MA	PS-E 10MA	PS-E 20MA	PS-E 40MA					
Pump connections mm (inch)	IN $\phi 10$ / OUT $\phi 6$ (IN $\phi 3/8$ " / OUT $\phi 1/4$ ")	IN $\phi 19$ / OUT $\phi 12$ (IN $\phi 3/4$ " / OUT $\phi 1/2$ ")	IN $\phi 19$ / OUT $\phi 19$ (IN $\phi 3/4$ " / OUT $\phi 3/4$ ")	IN $\phi 25$ / OUT $\phi 25$ (IN $\phi 1$ " / OUT $\phi 1$ ")					
Pump connectors	SUPER 300 TYPE PILLARFITTING or SUPER TYPE PILLARFITTING								
Max discharge capacity μ /min (GPM)	2.5 (0.66)	10 (2.64)	20 (5.28)	40 (10.57)					
Pulsation pressure range	When the pump discharge pressure is over 0.1MPaG	Within $\pm 12.5\%$	Within $\pm 16\%$	Within $\pm 24\%$					
	When the pump discharge pressure is under 0.1MPaG	Within 0.03MPa	Within 0.03MPa	Within 0.035MPa					
Minimum pulsation range [%]	Within $\pm 12.5\%$ of the pump discharge pressure when the pressure is over 0.1MPaG. Less than 0.03MPaG when pump discharge pressure is under 0.1MPaG.								
Operating temp. $^{\circ}$ C ($^{\circ}$ F)	10~40 (50~104) 41~70 (105~158) 71~100 (160~212)	10~40 (50~104) 41~70 (105~158) 71~100 (160~212)	10~40 (50~104) 41~70 (105~158) 71~100 (160~212)	10~40 (50~104) 41~70 (105~158) 71~100 (160~212)					
Supply air pressure MPaG (PSIG)	0.2~0.4 (29.0~58.0) 0.2~0.3 (29.0~43.5) 0.2~0.25 (29.0~36.3)	0.2~0.3 (29.0~43.5) 0.2~0.25 (29.0~36.3)	0.2~0.3 (29.0~43.5) 0.2~0.25 (29.0~36.3)	0.2~0.3 (29.0~43.5) 0.2~0.25 (29.0~36.3)					
Max discharge pressure MPaG (PSIG)	0.35 (50.8) 0.25 (36.3) 0.2 (29.0)	0.25 (36.3) 0.2 (29.0)	0.25 (36.3) 0.2 (29.0)	0.25 (36.3) 0.2 (29.0)					
Allowable differential Pressure of Bellows MPa (PSIG)	0.3 (43.5) 0.25 (36.3) 0.2 (29.0)	0.3 (43.5) 0.25 (36.3) 0.2 (29.0)	0.3 (43.5) 0.25 (36.3) 0.2 (29.0)	0.3 (43.5) 0.25 (36.3) 0.2 (29.0)					
Discharge volume per stroke μ /stroke (IN 3)	0.03 (1.83)		0.10 (6.10)		0.20 (12.20)		0.40 (24.41)		
Air consumption μ /min (GPM) [Normal] (SCFM)	10~70 (0.4~2.5)		10~80 (0.4~2.8)		50~130 (1.8~4.6)		50~300 (1.8~10.6)		
Temperature in atmosphere $^{\circ}$ C ($^{\circ}$ F)	10~50 (50~122)								
Air source connection (inch)	For pump operation	2-Rc 1/8" (2-NPT 1/8")		2-Rc 1/4" (2-NPT 1/4")		2-Rc 1/4" (2-NPT 1/4")		2-Rc 3/8" (2-NPT 3/8")	
	For master valve	Rc 1/4" (NPT 1/4")		Rc 1/4" (NPT 1/4")		Rc 1/4" (NPT 1/4")		Rc 1/4" (NPT 1/4")	
Approx.weight kg (lb)	2.5 (5.5)		7 (15)		12 (26)		21 (46)		
Pump size mm (inch)	286L \times 106W \times 111H (11.3L \times 4.2W \times 4.4H)		330L \times 138W \times 154H (13.0L \times 5.4W \times 6.1H)		373L \times 176W \times 181H (14.7L \times 6.9W \times 7.1H)		449L \times 210W \times 215H (17.7L \times 8.3W \times 8.5H)		

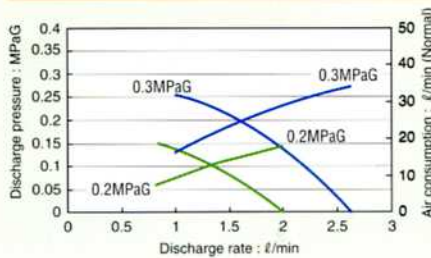
*Select the type of fitting for inlet and outlet of the pump.
[ϕ] Operation with an AIR chamber.

Performance Curves for PS-E 2MA

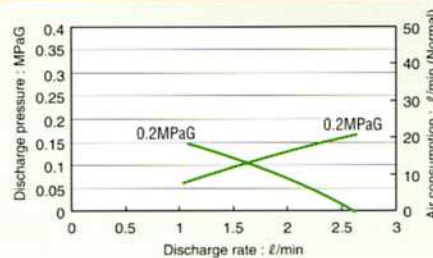
Performance Curves for PS-E 2MA (at 25°C)



Performance Curves for PS-E 2MA (at 50°C)

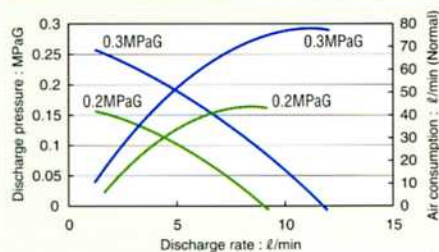


Performance Curves for PS-E 2MA (at 80°C)

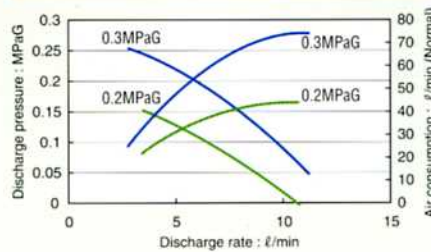


Performance Curves for PS-E 10MA

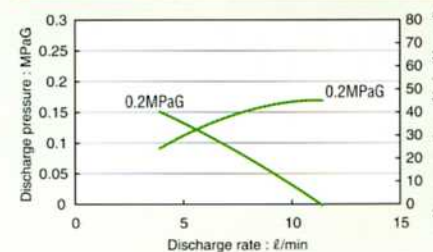
Performance Curves for PS-E 10MA (at 20°C)



Performance Curves for PS-E 10MA (at 50°C)

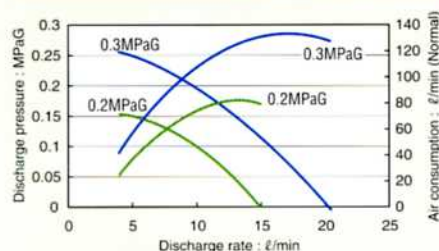


Performance Curves for PS-E 10MA (at 80°C)

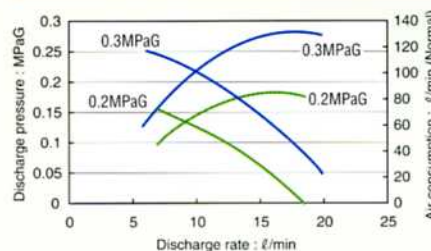


Performance Curves for PS-E 20MA

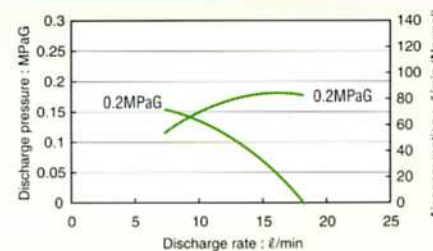
Performance Curves for PS-E 20MA (at 20°C)



Performance Curves for PS-E 20MA (at 50°C)

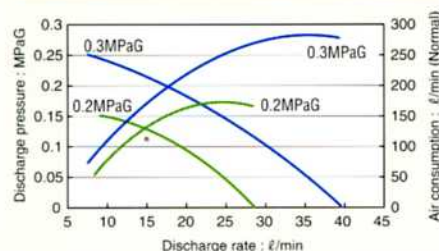


Performance Curves for PS-E 20MA (at 80°C)

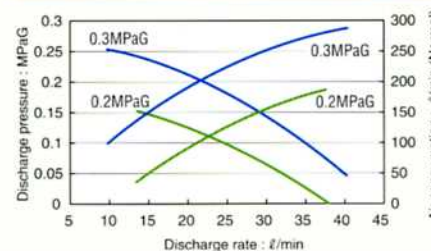


Performance Curves for PS-E 40MA

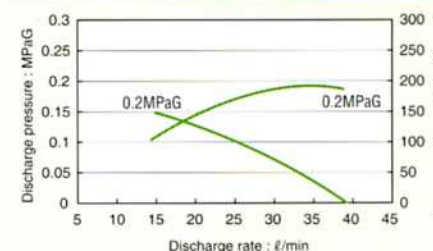
Performance Curves for PS-E 40MA (at 20°C)



Performance Curves for PS-E 40MA (at 50°C)



Performance Curves for PS-E 40MA (at 80°C)



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• Follow the instructions, before installation and operation, for your safety.