

SPELA 300 PILLAR BELLOWS PUMP PS-E SERIES

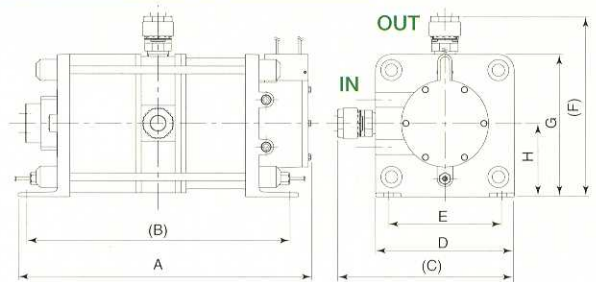
PTFE Bellows Pump with No pulsation. More Compact.



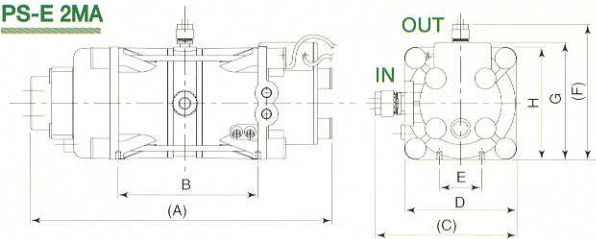
Features

- 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)

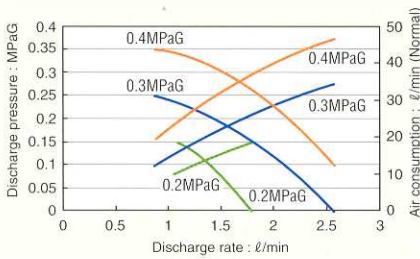
	A	B	(C)			D	E	(F)			G	H
			SUPER FITTING	SUPER 300 FITTING J	SUPER 300 FITTING P			SUPER FITTING	SUPER 300 FITTING J	SUPER 300 FITTING P		
PS-E 2MA	286	132	136	134	136	106	40	129	128	130	111	106
PE-E 10MA	330	285	191	186	188	138	112	184	181	183	143	74
PE-E 20MA	373	335	229	224	226	176	144	234	229	231	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 $\pm 24\%$			Within $\pm 31\%$		
	When the pump discharge pressure is under 0.1MPaG			Within 0.03MPa			Within 0.03MPa			Within 0.035MPa			Within 0.045MPa		
	Minimum pulsation range [※]														
Operating temp. $^{\circ}\text{C}$ ($^{\circ}\text{F}$)	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)	0.2~0.25 (29.0~36.3)	0.2~0.3 (29.0~43.5)	0.2~0.25 (29.0~36.3)	0.2~0.25 (29.0~36.3)	0.2~0.3 (29.0~43.5)	0.2~0.25 (29.0~36.3)	0.2~0.25 (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)	0.2 (29.0)	0.25 (36.3)	0.2 (29.0)	0.2 (29.0)	0.25 (36.3)	0.2 (29.0)	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 $^{\circ}\text{C}$ ($^{\circ}\text{F}$)	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 x 106W x 111H (11.3L x 4.2W x 4.4H)			330L x 138W x 154H (13.0L x 5.4W x 6.1H)			373L x 176W x 181H (14.7L x 6.9W x 7.1H)			449L x 210W x 215H (17.7L x 8.3W x 8.5H)					

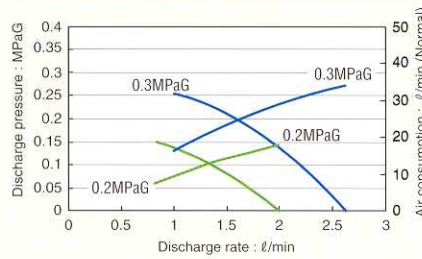
★Select the type of fitting for inlet and outlet of the pump.
[※] Operation with an AIR chamber.

Performance Curves for PS-E 2MA

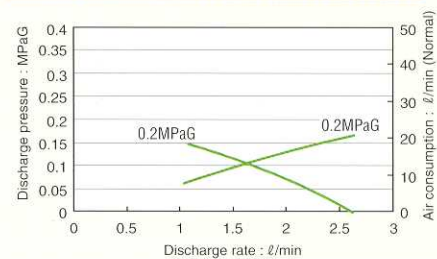
Performance Curves for PS-E 2MA (at 25°C)



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

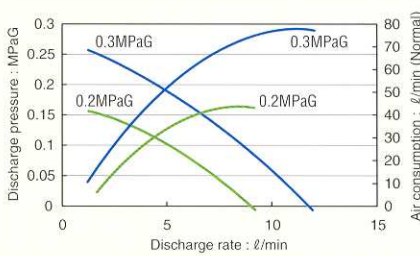


Performance Curves for PS-E 2MA (at 80°C)

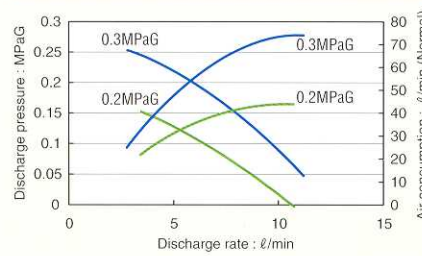


Performance Curves for PS-E 10MA

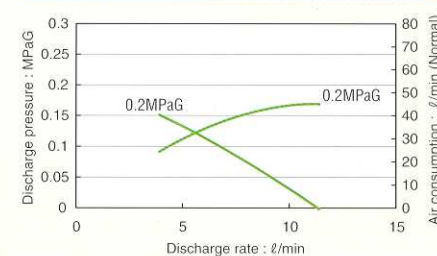
Performance Curves for PS-E 10MA (at 20°C)



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

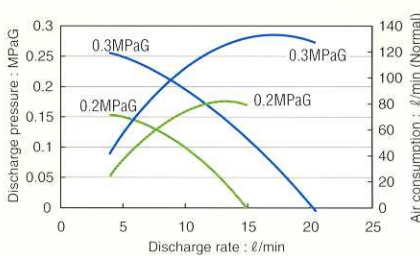


Performance Curves for PS-E 10MA (at 80°C)

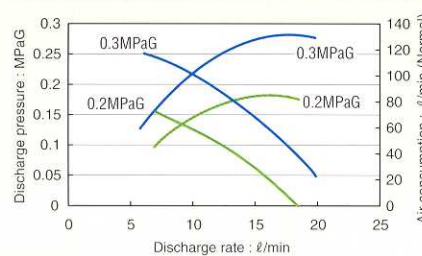


Performance Curves for PS-E 20MA

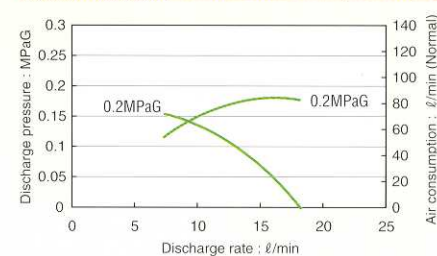
Performance Curves for PS-E 20MA (at 20°C)



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

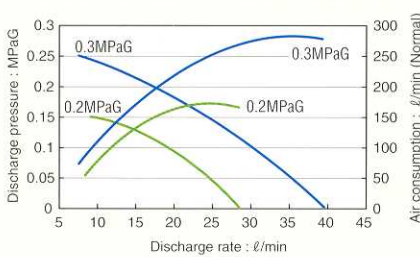


Performance Curves for PS-E 20MA (at 80°C)

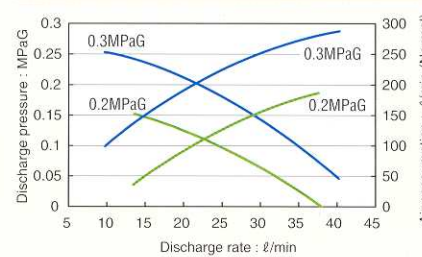


Performance Curves for PS-E 40MA

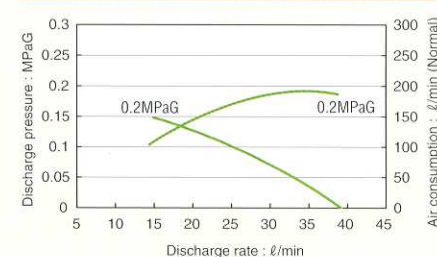
Performance Curves for PS-E 40MA (at 20°C)



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



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



NIPPON PILLAR PACKING CO., LTD.

Head Office: 11-48, Nonakaminami 2 Chome, Yodogawa-ku, Osaka, 532-0022 Japan.
Tel : 81-(0)6-6305-2821 Fax : 81-(0)6-6302-3300
E-mail : info@pillar.co.jp

Tokyo Office: 2-2, Uchisaiwaicho 2 Chome, Chiyoda-ku, Tokyo, 100-0011 Japan.
Tel : 81-(0)3-3508-1611 Fax : 81-(0)3-3508-1881

Nippon Pillar Corporation of America: 1562, Parkway Loop, Suite2C, Tustin, CA 92780, USA.
Tel : 1-714-258-7741 Fax : 1-714-258-7760
E-mail : sales@nipponpillar.com

Nippon Pillar Singapore Pte. Ltd.: 10 Toh Guan Road #02-03 TT International Tradepark Singapore 608838
Tel : (65)6861-7138 Fax : (65)6862-9098
E-mail : npillars@singnet.com.sg

Pillar Taiwan Semiconductor Work Shop: No.15 Lane 42, Ming-Yu 2 Street, Hsin-Chu, Taiwan. R.O.C.
Tel : 886-3-5785715 Fax : 886-3-5785716
E-mail : homwell@ms9.hinet

Pillar Korea Semiconductor Work Shop: 55-1, Changkoc-1R1, Paltan-Myun, Hwasung-Kun, Kyongki-Do, KOREA.
Tel : 031-353-1521 Fax : 031-353-1522
E-mail : hanjongeng@hotmail.com

<http://www.pillar.co.jp/> e-mail : info@pillar.co.jp

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