

# *SPELA 300 PILLAR BELLOWS PUMP* **PS-E SERIES**

**PTFE Bellows Pump with No pulsation.  
More Compact.**



## **Features**

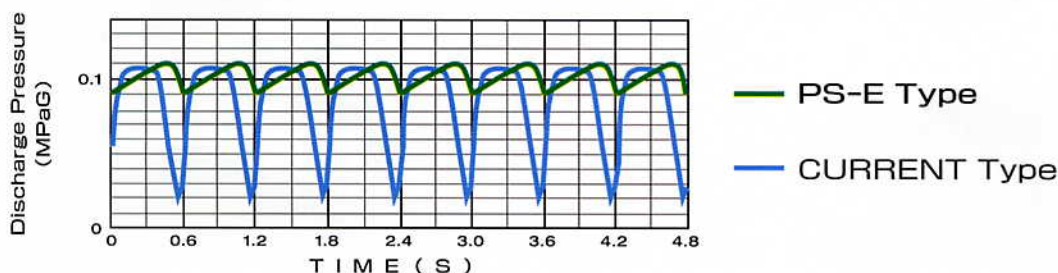
- 1** Applicable to all high temp liquid ( $H_2SO_4$ ,  $HCl$ ,  $H_2O_2$ ) in wet bench.
- 2** Minimized pulsation pressure.  
Average pulsation pressure rate is within  $\pm 12.5\%$
- 3** VA design makes cost reduction possible.

Type		PS-E 10H			PS-E 20H		
Pump connections mm (inch)		IN $\phi$ 19 / OUT $\phi$ 12 (IN $\phi$ 3/4" / OUT $\phi$ 1/2")			IN $\phi$ 19/ OUT $\phi$ 12 (IN $\phi$ 3/4" / OUT $\phi$ 13/4")		
Pump connectors		SUPER 300 TYPE PILLARFITTING or SUPER TYPE PILLARFITTING					
Max discharge capacity $\ell$ /min (GPM)		10 (2.6)			20 (5.3)		
Pulsation pressure range	When the pump discharge pressure is over 0.1MPaG	Within $\pm$ 16%			Within $\pm$ 24%		
	When the pump discharge pressure is under 0.1MPaG	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)	41~100 (105~212)	101~180 (213~356)	10~40 (50~104)	41~100 (105~212)	101~180 (213~356)
Supply air pressure MPaG (PSIG)		0.2~0.3 (29~44)	0.2~0.25 (29~36)	0.15~0.2 (22~29)	0.2~0.3 (29~44)	0.2~0.25 (29~36)	0.2~0.25 (29~36)
Max discharge pressure MPaG (PSIG)		0.25 (36)	0.2 (29)	0.15 (22)	0.25 (36)	0.2 (29)	0.15 (22)
Allowable differential Pressure of Bellows MPa (PSIG)		0.3 (44)	0.2 (29)	0.15 (22)	0.3 (44)	0.2 (29)	0.15 (22)
Discharge volume per stroke $\ell$ /stroke (IN <sup>3</sup> )		0.10 (6.10)			0.20 (12.2)		
Air consumption KPaG $\cdot$ m/min.(SCFM)		1~8.1 (0.4~2.8)			5.1~13.2 (1.8~4.6)		
Temperature in atmosphere $^{\circ}$ C ( $^{\circ}$ F)		10~50 (50~122)					
Air source connection	For pump operation	2-Rc1/4"			2-Rc1/4"		
	For master valve	Rc1/4"			Rc1/4"		
Approx. weight kg (lb)		7 (15)			12 (26)		
Pump size mm (inch)		330 <sup>L</sup> $\times$ 138 <sup>W</sup> $\times$ 154 <sup>H</sup> (13.0 <sup>L</sup> $\times$ 5.4 <sup>W</sup> $\times$ 6.1 <sup>H</sup> )			373 <sup>L</sup> $\times$ 176 <sup>W</sup> $\times$ 181 <sup>H</sup> (14.7 <sup>L</sup> $\times$ 6.9 <sup>W</sup> $\times$ 7.1 <sup>H</sup> )		

★Select the type of fitting for inlet and outlet of the pump.

[※] Operation with an AIR chamber.

## Pulsation curve



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\*Specifications and dimensions are subject to change without prior notice.

\*The data on this catalogue are solely for your reference and are not to be construed as constituting a warranty.



**CAUTION**

• Read through and follow the instructions on the manual before installation and operation for your safety.