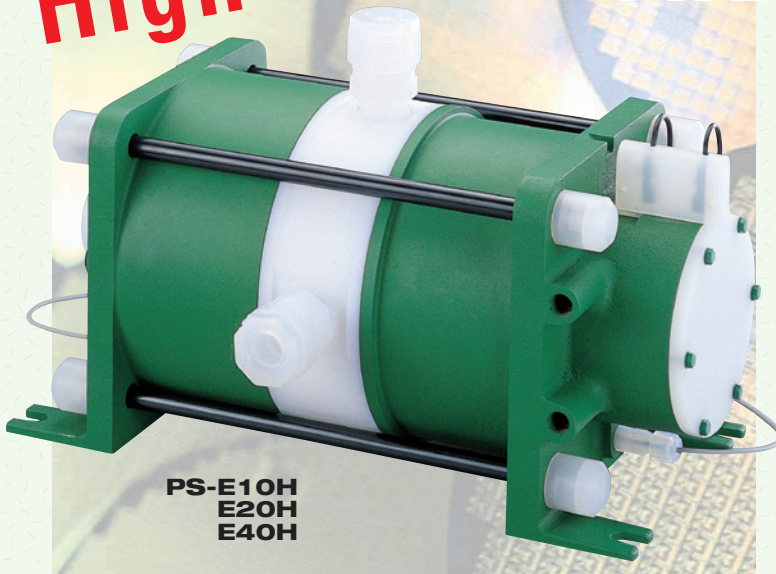


SPELA 300 PILLAR BELLOWS PUMP PS-E SERIES

High temp.

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

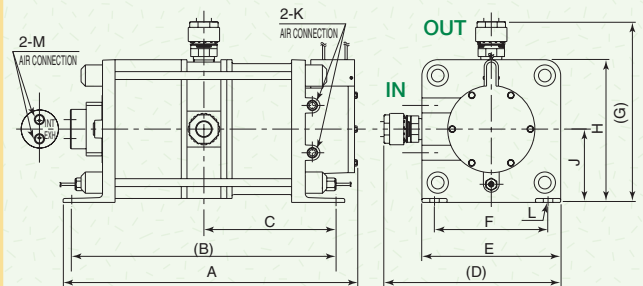


**PS-E10H
E20H
E40H**

Features

- 1 Applicable for various chemicals.
- 2 Minimized pulsation pressure. Average pulsation pressure rate is within $\pm 12.5\%$
- 3 VA design makes cost reduction possible.

PS-E 10H, PS-E 20H, PS-E 40H



DIMENSIONS (mm)

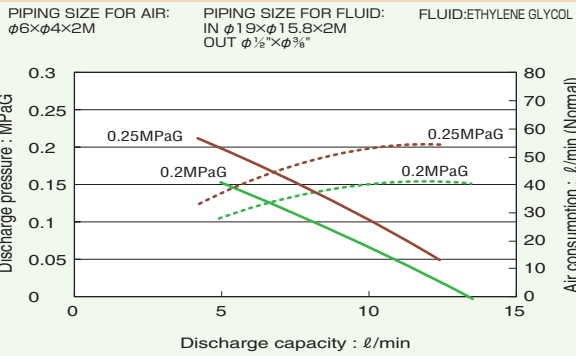
	A	(B)	C	(D)		E	F	(G)		H	J	K	L	M
				SUPER 300 FITTING	SUPER FITTING			SUPER 300 FITTING	SUPER FITTING					
PS-E 10H	330	285	163	188	191	138	112	183	184	154	74	Rc1/4"	4-φ10	Rc1/4"
PS-E 20H	373	335	194	226	229	176	144	231	234	181	93	Rc1/4"	4-φ12	Rc1/4"
PS-E 40H	449	395	245	316	316	210	172	277	279	215	110	Rc3/8"	4-φ14	Rc1/4"

Type		PS-E 10H			PS-E 20H			PS-E 40H		
Pump connections mm (inch)		IN φ19 / OUT φ12 (IN φ3/4" / OUT φ1/2")			IN φ19 / OUT φ19 (IN φ3/4" / OUT φ3/4")			IN φ31.8 / OUT φ25.4 (IN φ1 1/4" / OUT φ1")		
Pump connectors		SUPER 300 TYPE PILLARFITTING or SUPER TYPE PILLARFITTING								
Max discharge capacity ℓ/min (GPM)		10 (2.64)			20 (5.28)			40 (10.56)		
Pulsation pressure range	When the pump discharge pressure is over 0.1MPaG	Within $\pm 16\%$			Within $\pm 24\%$			Within $\pm 31\%$		
	When the pump discharge pressure is under 0.1MPaG	Within 0.03MPa			Within 0.035MPa			Within 0.045MPa		
At full-load operation [※]		Within $\pm 12.5\%$ of the pump discharge pressure when the pressure is over 0.1 MPaG. Less than 0.03MPaG when pump discharge pressure is under 0.1MPaG.								
Operating temp. °C (°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)	10~40 (50~104)	41~100 (105~212)	101~160[※1] (213~320)
Supply air pressure MPaG (PSIG)		0.2~0.3 (29.0~43.5)	0.2~0.25 (29.0~36.3)	0.15~0.2 (21.8~29.0)	0.2~0.3 (29.0~43.5)	0.2~0.25 (29.0~36.3)	0.15~0.2 (21.8~29.0)	0.2~0.3 (29.0~43.5)		0.15~0.2 (21.8~29.0)
Max discharge pressure MPaG (PSIG)		0.25 (36.3)	0.2 (29.0)	0.15 (21.8)	0.25 (36.3)	0.2 (29.0)	0.15 (21.8)	0.25 (36.3)		0.2 (29.0)
Allowable differential Pressure of Bellows MPa (PSIG)		0.3 (43.5)	0.2 (29.0)	0.15 (21.8)	0.3 (43.5)	0.2 (29.0)	0.15 (21.8)	0.3 (43.5)		0.2 (29.0)
Discharge capacity per stroke ℓ/stroke (IN ³) [※2]		0.10 (6.10)			0.20 (12.20)			0.40 (24.41)		
Air consumption ℓ/min [Normal] (SCFM)		10~80 (0.4~2.8)			50~130 (1.8~4.6)			50~300 (1.8~10.8)		
Ambient temperature °C (°F)		10~50 (50~122)								
Air inlet ports (inch)	For pump operation	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	2-Rc 1/4" (2-NPT 1/4")			2-Rc 1/4" (2-NPT 1/4")			2-Rc 1/4" (2-NPT 1/4")		
Weight kg (lb)		7 (15)			12 (26)			21 (46)		
Pump size mm (inch) [※3]		330L × 138W × 154H (13.0L × 5.4W × 6.1H)			373L × 176W × 181H (14.7L × 6.9W × 7.1H)			449L × 237W × 215H (17.7L × 9.3W × 8.5H)		

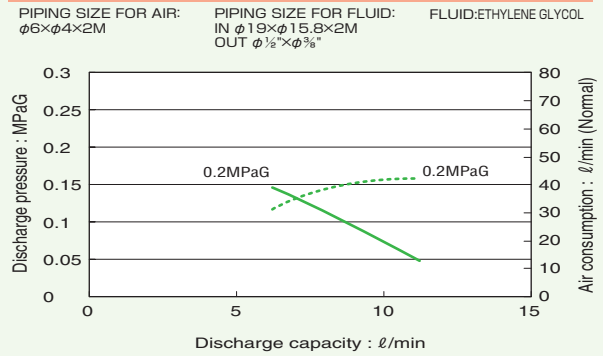
- Different size of pump connections may vary the above figure.
- Specify type of end connection when ordering.
- We have also explosionproof sensor type pumps that are suitable for pumping an explosive organic solution.
- The length of the suction pipe does not exceed 2m.
- We have also PC series pumps for CMP slurry, please contact us.
- [※1] Operation with an AIR chamber.
- [※2] PS-E40H: Operating temp. 161~180°C available, please contact us.
- [※3] The value applies when the standard stroke is selected.
- [※3] The reference value of the pump size (cast metal size) is designed under the JIS standard tolerance.

Performance Curves for PS-E 10H

Performance Curves for PS-E 10H (at 100°C)

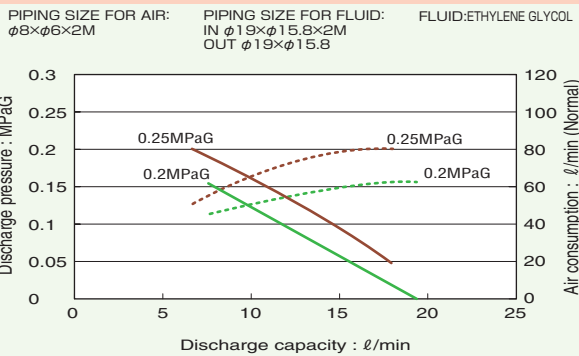


Performance Curves for PS-E10H (at 150°C)

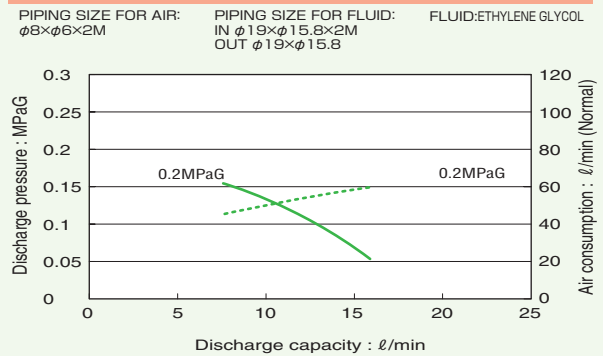


Performance Curves for PS-E 20H

Performance Curves for PS-E 20H (at 100°C)

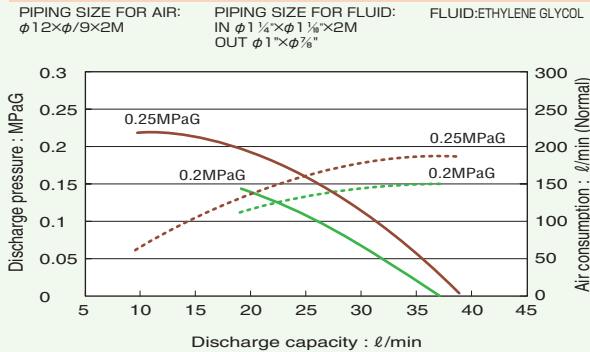


Performance Curves for PS-E 20H (at 150°C)

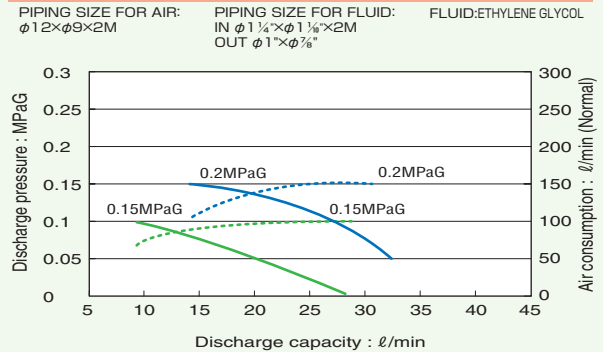


Performance Curves for PS-E 40H

Performance Curves for PS-E 40H (at 100°C)



Performance Curves for PS-E 40H (at 150°C)



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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

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