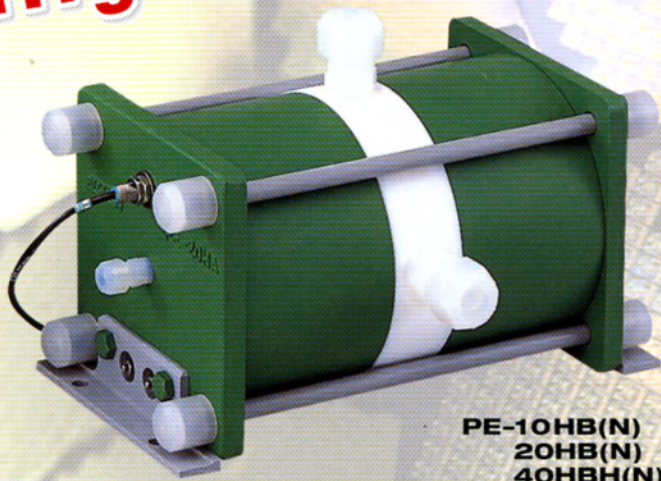


SPELA PILLAR BELLOWS PUMP PE SERIES

High Temp.

Highly reliable bellows pumps with extended durability.

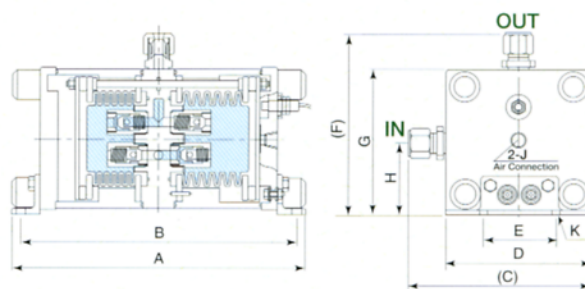


**PE-10HB(N)
20HB(N)
40HBH(N)**

Features

- 1 Applicable for all high temperature wafer processing chemistries - H2SO4, HCl, H2O2.
- 2 Proprietary PTFE bellows provides excellent life-cycle durability.
- 3 Integrated, in-house production from raw materials to finished products assures quality and reliability.

PE-10HB(N), PE-20HB(N), PE-40HBH(N)



DIMENSIONS (mm)

	A	B	(C)		D	E	(F)		G	H	J	K
			SUPER TYPE FITTING	SUPER 300 TYPE FITTING			SUPER TYPE FITTING	SUPER 300 TYPE FITTING				
PE-10HB(N)	304	282	193	193	152	70	197	196	156	80	Rc1/4" (NPT1/4")	4-φ11
PE-20HB(N)	360	340	244	241	190	100	248	245	194	99	Rc3/8" (NPT3/8")	4-φ11
PE-40HBH(N)	404	376	316	314	254	120	318	316	256	112	Rc3/8" (NPT3/8")	4-φ13

Type	PE-10HB(N)				PE-20HB(N)				PE-40HBH(N)			
Pump connections INCH	IN φ1/2" / OUT φ1/2"				IN φ3/4" / OUT φ3/4"				IN φ1" / OUT φ1"			
Pump connectors ※1	SUPER 300 TYPE FITTING or SUPER TYPE FITTING											
Max discharge capacity ℓ/min. (GPM) ※2	16 (4.2)				32 (8.4)				64 (16.8)			
Operating temp. °C (°F)	10~40 (50~104)	41~100 (105~212)	101~140 (213~284)	141~180 (286~356)	10~40 (50~104)	41~100 (105~212)	101~140 (213~284)	141~180 (286~356)	10~40 (50~104)	41~100 (105~212)	101~140 (213~284)	141~180 (286~356)
Supply air pressure MPa (PSIG)	0.2~0.5 (29~73)	0.2~0.4 (29~58)	0.2~0.3 (29~44)	0.15~0.2 (22~29)	0.2~0.5 (29~73)	0.2~0.4 (29~58)	0.2~0.3 (29~44)	0.15~0.2 (22~29)	0.2~0.5 (29~73)	0.2~0.4 (29~58)	0.2~0.3 (29~44)	0.15~0.2 (22~29)
Max discharge pressure MPa (PSIG)	0.45 (65)	0.35 (51)	0.25 (36)	0.15 (22)	0.45 (65)	0.35 (51)	0.25 (36)	0.15 (22)	0.45 (65)	0.35 (51)	0.25 (36)	0.15 (22)
Allowable differential pressure of bellows MPa (PSIG) ※3	0.4 (58)	0.3 (44)	0.2 (29)	0.1 (15)	0.4 (58)	0.3 (44)	0.2 (29)	0.1 (15)	0.4 (58)	0.3 (44)	0.2 (29)	0.1 (15)
Discharge volume per stroke ℓ/stroke (IN ³)	0.21 (13)				0.42 (26)				0.86 (52)			
Air consumption ℓ/min. [Normal] (SCFM)	20~400 (0.7~14.0)				20~470 (0.7~16.5)				20~700 (0.7~24.5)			
Temperature in atmosphere °C (°F)	10~50 (50~122)											
Air source connection (INCH)	2-Rc 1/4" (2-NPT 1/4")				2-Rc3/8" (2-NPT 3/8")				2-Rc3/8" (2-NPT 3/8")			
Effective cross-section area of solenoid valve	27 or larger				27 or larger				57 or larger			
Weight kg (lb)	10 (22)				21 (46)				38 (83)			
Pump size mm	304L × 152W × 156H				360L × 190W × 194H				404L × 254W × 256H			

※1 Specify type of end connection when ordering. ※2 This data is based on test with D.I. water (20°C)

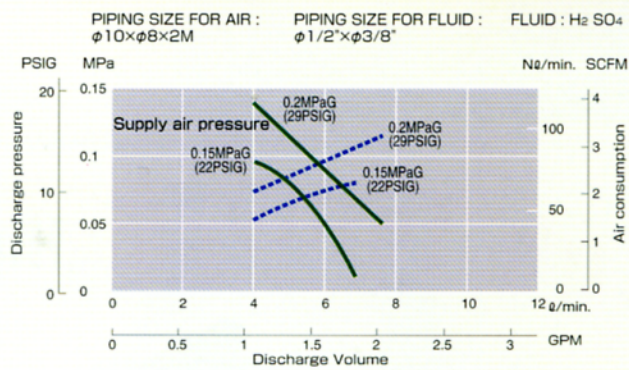
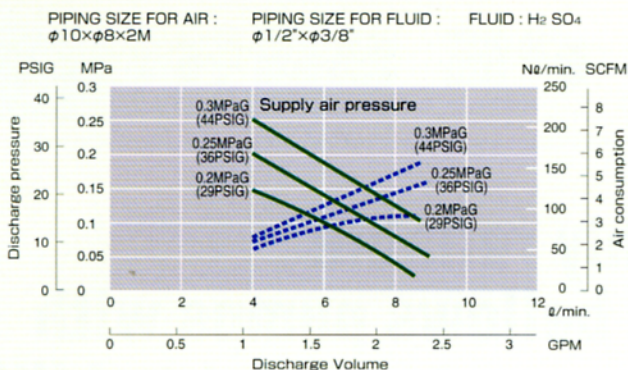
※3 Allowable differential pressure of bellows = Differential between discharge and supply air pressure.

Performance Curves for PE-10HB(N)

HQ PERFORMANCE ———
AIR CONSUMPTION - - - - -

Temp: 130°C (266°F)

Temp: 180°C (356°F)

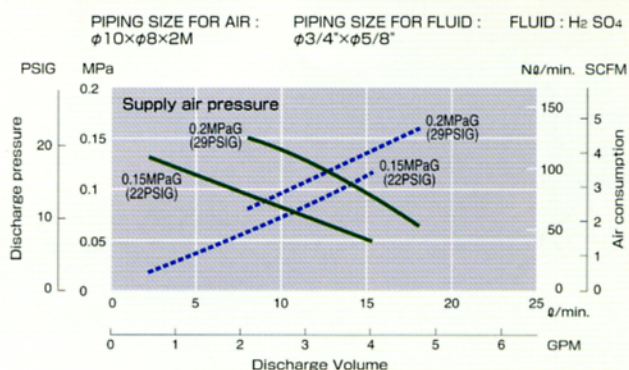
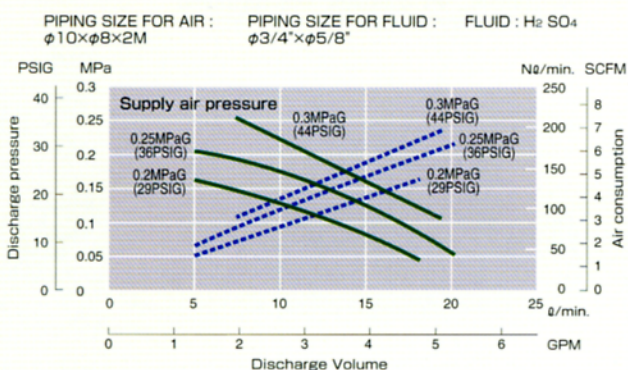


Performance Curves for PE-20HB(N)

HQ PERFORMANCE ———
AIR CONSUMPTION - - - - -

Temp: 130°C (266°F)

Temp: 180°C (356°F)

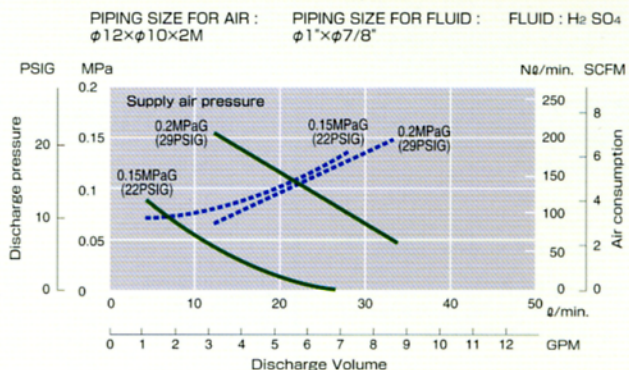
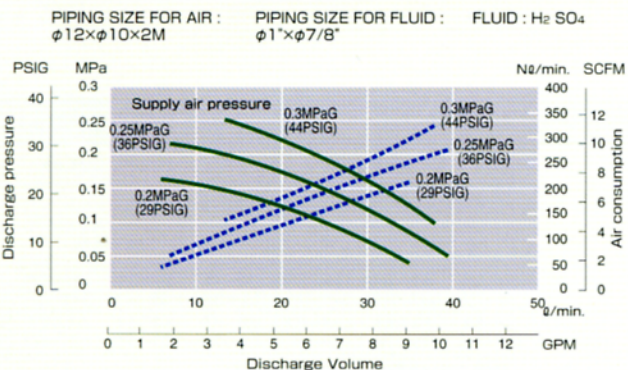


Performance Curves for PE-40HBH(N)

HQ PERFORMANCE ———
AIR CONSUMPTION - - - - -

Temp: 130°C (266°F)

Temp: 180°C (356°F)



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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 construed as constituting a warranty.

CAUTION

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