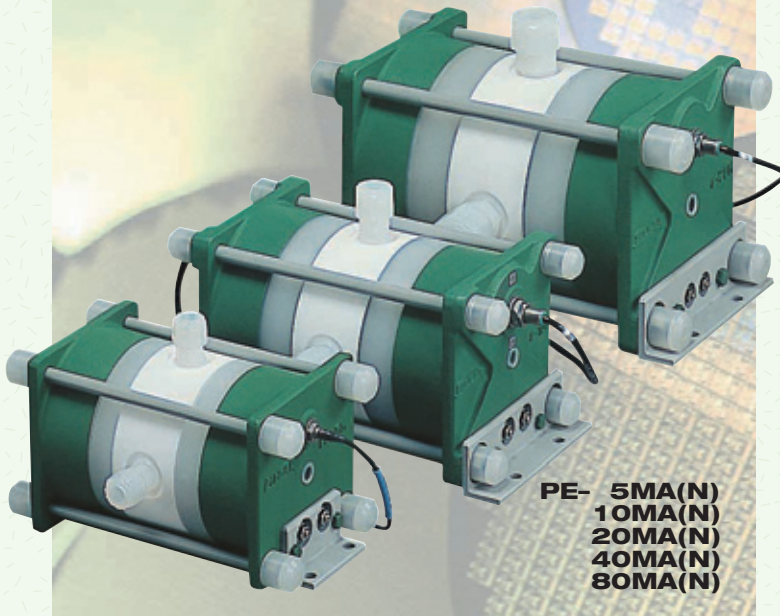


# SPELA PILLAR BELLOWS PUMP PE SERIES

Highly reliable bellows pumps with extended durability.

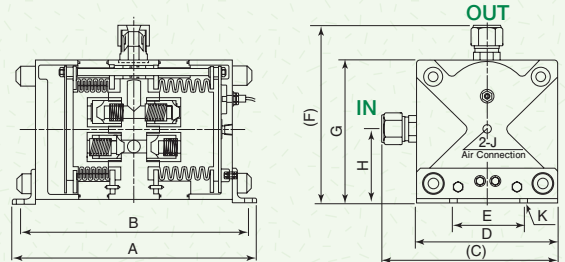


**PE- 5MA(N)  
10MA(N)  
20MA(N)  
40MA(N)  
80MA(N)**

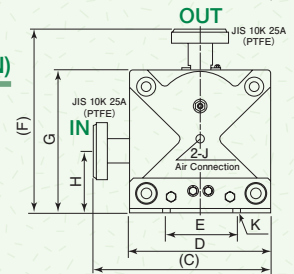
### Features

- Proprietary PTFE bellows provides excellent life-cycle durability.
- Integrated, in-house production from raw materials to finished products assures quality and reliability.
- Pillar's integrated manufacturing and design lower Total Cost of Ownership.

**PE-5MA(N), PE-10MA(N), PE-20MA(N), PE-40MA(N)**



**PE-80MA(N)**



DIMENSIONS (mm)

	A	B	(C)		D	E	(F)		G	H	J	K
			SUPER FITTING	SUPER 300 FITTING			SUPER FITTING	SUPER 300 FITTING				
PE- 5MA(N)	236	218	158	156	122	50	162	160	126	65	Rc1/4" (NPT1/4")	4-φ9
PE-10MA(N)	284	266	181	180	142	65	186	185	147	76		
PE-20MA(N)	324	304	234	231	184	80	237	234	187	95	Rc3/8" (NPT3/8")	4-φ11
PE-40MA(N)	404	376	304	302	245	120	309	307	249.5	112		4-φ13
PE-80MA(N)	538	478	342		277	130	359		286.5	129	Rc1/2" (NPT1/2")	

Type	PE-5MA(N)	PE-10MA(N)	PE-20MA(N)	PE-40MA(N)	PE-80MA(N)		
Pump connections INCH (mm)	IN φ3/8" / OUT φ3/8" (IN φ10 / OUT φ10)	IN φ1/2" / OUT φ1/2" (IN φ12 / OUT φ12)	IN φ3/4" / OUT φ3/4" (IN φ19 / OUT φ19)	IN φ1" / OUT φ1" (IN φ25 / OUT φ25)	JIS 10K 25A FLANGE OUT JIS 10K 25A FLANGE <sup>※4</sup>		
Pump connectors <sup>※1</sup>	SUPER 300 TYPE FITTING or SUPER TYPE FITTING						
Max discharge capacity ℓ/min. (GPM) <sup>※2</sup>	8 (2.1)	16 (4.2)	32 (8.4)	60 (15.8)	82 (22)		
Operating temp. °C (°F)	10~40 (50~104)	41~100 (105~212)	10~40 (50~104)	41~100 (105~212)	10~40 (50~104)	41~60 (105~140)	61~80 (141~176)
Supply air pressure MPa (PSIG)	0.2~0.5 (29~73)	0.2~0.4 (29~58)	0.2~0.5 (29~73)	0.2~0.4 (29~58)	0.2~0.5 (29~73)	0.2~0.4 (29~58)	0.2~0.3 (29~44)
Max discharge pressure MPa (PSIG)	0.45 (65)	0.35 (51)	0.45 (65)	0.35 (51)	0.45 (65)	0.35 (51)	0.45 (65)
Allowable differential pressure of bellows MPa (PSIG) <sup>※3</sup>	0.4 (58)	0.3 (44)	0.4 (58)	0.3 (44)	0.4 (58)	0.3 (44)	0.3 (44)
Discharge capacity per stroke ℓ/stroke (IN) <sup>※5</sup>	0.09 (5.5)	0.21 (13)	0.41 (25)	0.85 (52)	1.69 (103)		
Air consumption ℓ/min. [Normal] (SCFM)	25~225 (0.9~8.0)	30~340 (1.1~12.0)	30~450 (1.1~15.8)	50~630 (1.8~22.0)	100~650 (3.5~22.8)		
Ambient temperature °C (°F)	10~50 (50~122)						
Air inlet ports (INCH)	2-Rc 1/4" (2-NPT 1/4")		2-Rc 3/8" (2-NPT 3/8")		2-Rc 1/2" (2-NPT 1/2")		
Effective cross-section area of solenoid valve (mm <sup>2</sup> )	27 or larger	27 or larger	27 or larger	57 or larger	57 or larger		
Weight kg (lb)	5 (11)	8 (17.6)	15 (33)	29 (63.8)	47 (103.4)		
Pump size mm <sup>※6</sup>	236L × 122W × 126H	284L × 142W × 147H	324L × 184W × 187H	404L × 245W × 249.5H	538L × 277W × 286.5H		

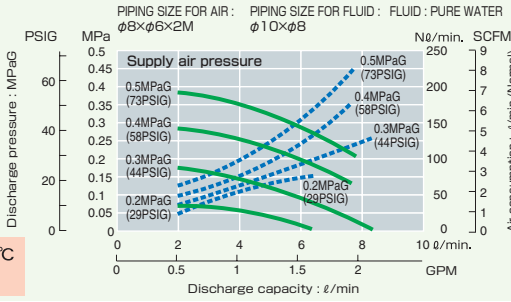
※1 Specify type of end connection when ordering.  
 ※2 Allowable differential pressure of bellows = Differential between discharge and supply air pressure.  
 ※3 We have also PC series pumps for CMP slurry, please contact us.  
 ※4 Super 300 type fitting is also available. Please contact us for detail.  
 ※5 The value applies when the standard stroke is selected.  
 Be sure to run the pump at a pumping speed of 80spm or lower. (60spm or lower for PE-80MA)

※6 The reference value of the pump size (cast metal size) is designed under the JIS standard tolerance.

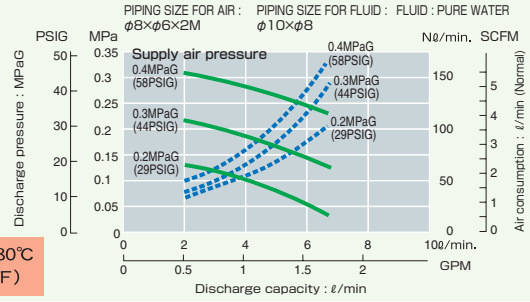
## Performance Curves for PE-5MA(N)

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

Temp:20°C  
(68°F)



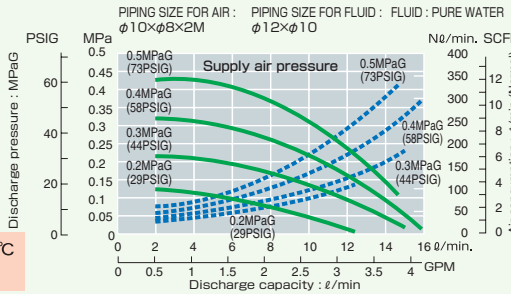
Temp:80°C  
(176°F)



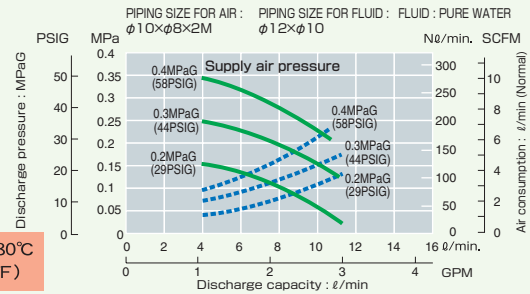
## Performance Curves for PE-10MA(N)

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

Temp:20°C  
(68°F)



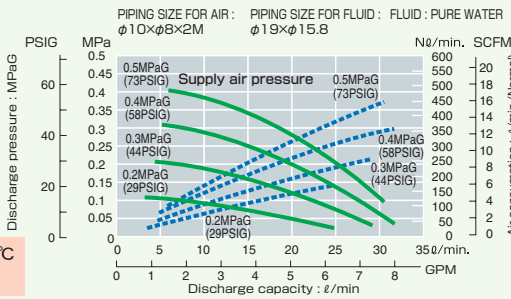
Temp:80°C  
(176°F)



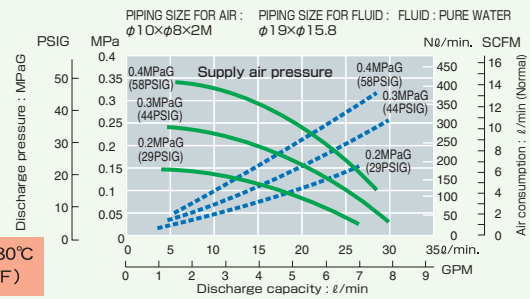
## Performance Curves for PE-20MA(N)

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

Temp:20°C  
(68°F)



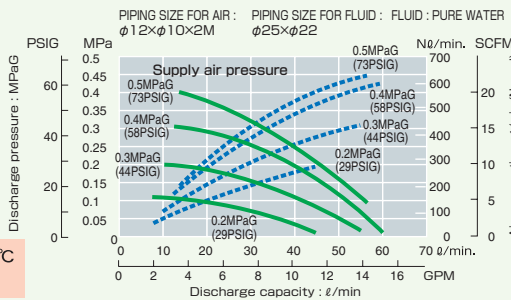
Temp:80°C  
(176°F)



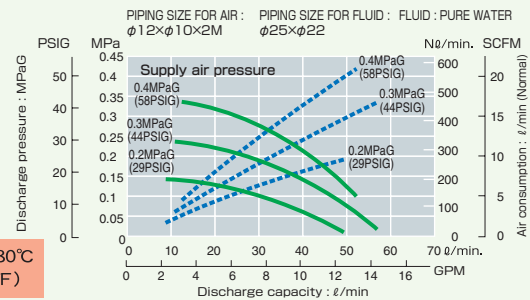
## Performance Curves for PE-40MA(N)

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

Temp:20°C  
(68°F)



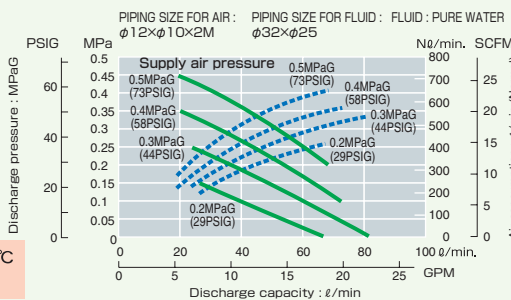
Temp:80°C  
(176°F)



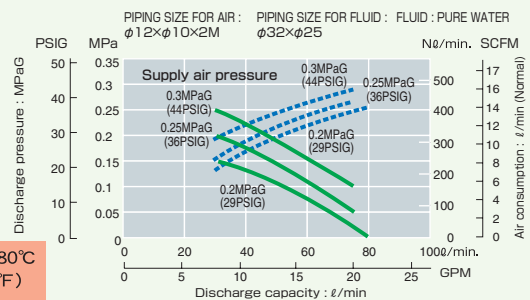
## Performance Curves for PE-80MA(N)

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

Temp:20°C  
(68°F)



Temp:80°C  
(176°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 to be construed as constituting a warranty.



**CAUTION**

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