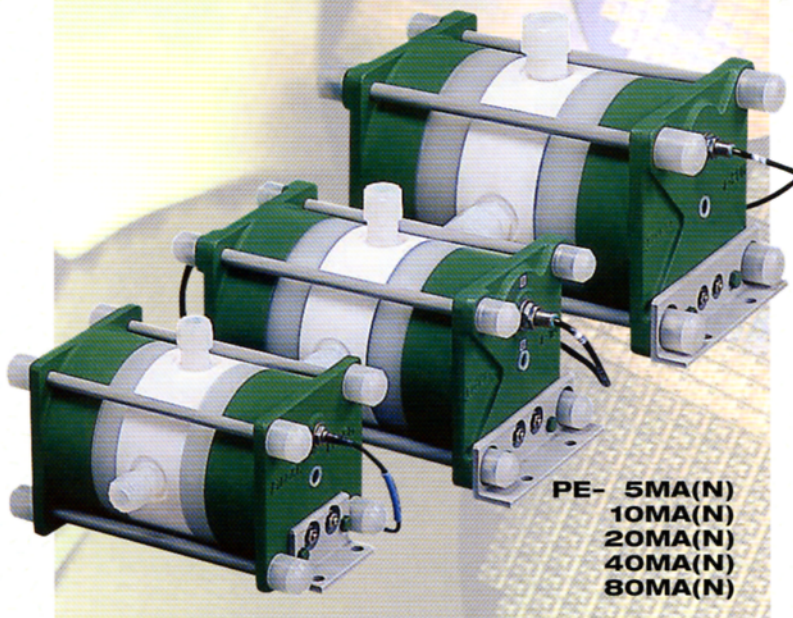


Highly reliable bellows pumps with extended durability.

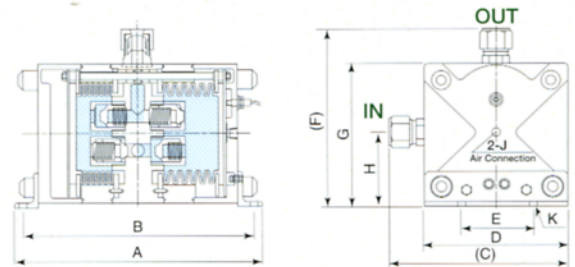


**PE- 5MA(N)
10MA(N)
20MA(N)
40MA(N)
80MA(N)**

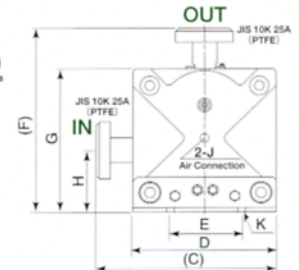
Features

- 1] Proprietary PTFE bellows provides excellent durability.
- 2] Integrated, in-house production from raw materials to finished products assures quality and reliability.
- 3] 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	Rc1/4" (NPT1/4")	4-φ9
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	Rc3/8" (NPT3/8")	4-φ13
PE-80MA(N)	538	478	342	342	277	130	359	359	286.5	129	Rc1/2" (NPT1/2")	4-φ13

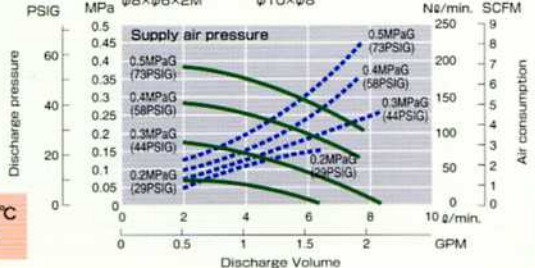
Type	PE-5MA(N)	PE-10MA(N)	PE-20MA(N)	PE-40MA(N)	PE-80MA(N)		
Pump connections INCH	IN φ10 / OUT φ10 (IN φ3/8" / OUT φ3/8")	IN φ12 / OUT φ12 (IN φ1/2" / OUT φ1/2")	IN φ19 / OUT φ19 (IN φ3/4" / OUT φ3/4")	IN φ25 / OUT φ25 (IN φ1" / OUT φ1")	JIS 10K 25A FLANGE ※4 OUT JIS 10K 25A FLANGE		
Pump connectors ※1	SUPER 300 TYPE FITTING or SUPER TYPE FITTING						
Max discharge capacity ℓ/min. (GPM) ※2	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) ※3	0.4 (58)	0.3 (44)	0.4 (58)	0.3 (44)	0.4 (58)	0.3 (44)	0.25 (36)
Discharge volume per stroke ℓ/stroke (IN ³)	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)		
Temperature in atmosphere °C (°F)	10~50 (50~122)						
Air source connection (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	27 or larger	27 or larger	27 or larger	57 or larger	57 or larger		
Weight kg (lb)	4.4 (9.7)	6.7 (14.8)	13.2 (29.1)	26.3 (58.0)	42.5 (93.7)		
Pump size mm	236L × 122W × 126H	284L × 142W × 147H	324L × 184W × 187H	404L × 254W × 249.5H	538L × 277W × 286.5H		

※1 Specific 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. ※4 Super 300 type Pillar Fitting is also available.

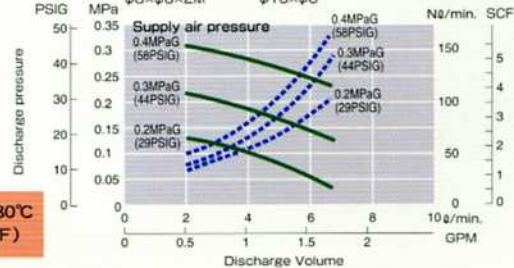
Performance Curves for PE-5MA(N)

HQ PERFORMANCE
AIR CONSUMPTION

Temp:20°C
(68°F)



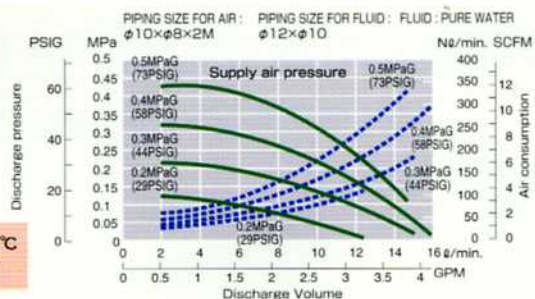
Temp:80°C
(176°F)



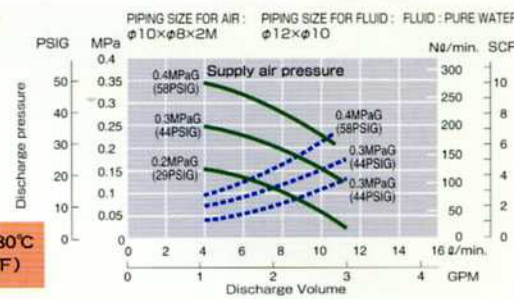
Performance Curves for PE-10MA(N)

HQ PERFORMANCE
AIR CONSUMPTION

Temp:20°C
(68°F)



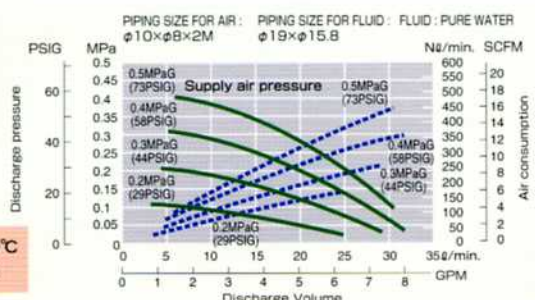
Temp:80°C
(176°F)



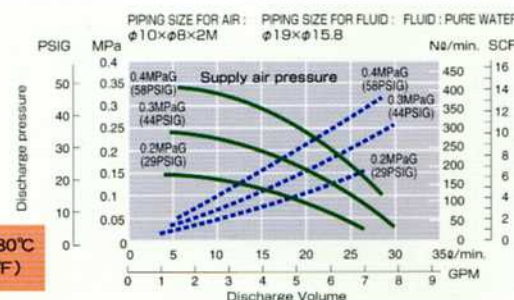
Performance Curves for PE-20MA(N)

HQ PERFORMANCE
AIR CONSUMPTION

Temp:20°C
(68°F)



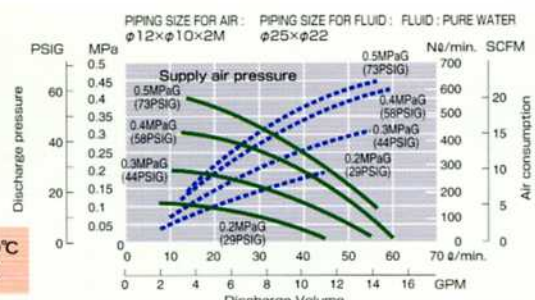
Temp:80°C
(176°F)



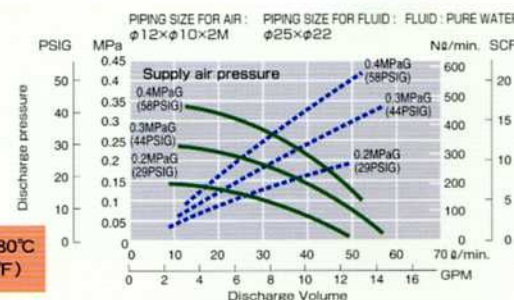
Performance Curves for PE-40MA(N)

HQ PERFORMANCE
AIR CONSUMPTION

Temp:20°C
(68°F)



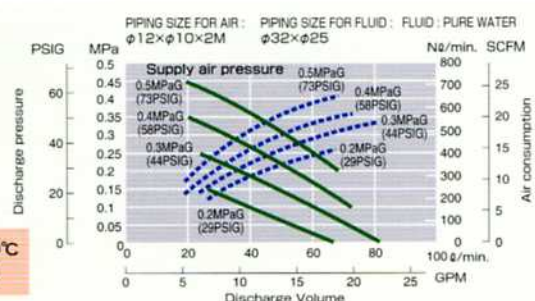
Temp:80°C
(176°F)



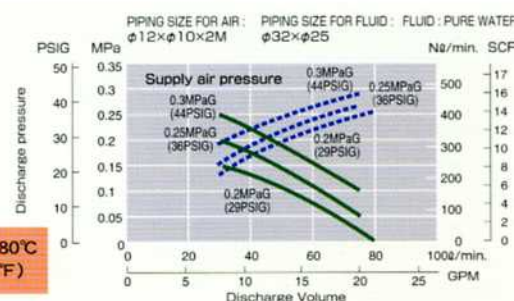
Performance Curves for PE-80MA(N)

HQ PERFORMANCE
AIR CONSUMPTION

Temp:20°C
(68°F)



Temp:80°C
(176°F)



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