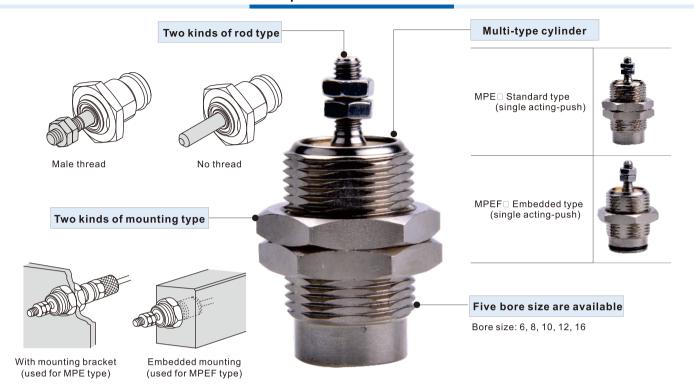


MPE Series Threaded Cylinder

Compendium of MPE Series



Criteria for selection: Cylinder thrust

Unit: Newton(N)

Model	Bore	Rod	Antin	a tuno	Pressure	Operating pressure(MPa)											
wodei	size	size	Actii	ig type	area(mm²)	0.1	0.2	0.3	0.4	0.5	0.6	0.7					
	6	3	Single	Push side	28.3	-	1.8	4.6	7.4	10.3	13.1	15.9					
	0	3	acting	Pull side	21.2				1.6								
	8	4	Single	Push side	50.3	-	4.8	9.8	14.8	19.9	24.9	29.9					
	0	4	acting	Pull side	37.7	2.7											
MPE	10	5	Single	Push side	78.5	-	9.4	17.3	25.1	33.0	40.8	48.7					
MPEF	10	5	acting	Pull side	58.9 2.8												
	12	6	Single	Push side	113.0	-	13.3	24.6	35.9	47.2	58.5	69.8					
	12	0	acting	Pull side	84.7		3.45										
	16	6	Single	Push side	201.0	-	29.4	49.5	69.6	89.7	109.8	129.9					
	16	6	acting	Pull side	172.7				4.8								

Installation and application



- 1. When load changes in the work, the cylinder with abundant output capacity shall be selected.
- Relative cylinder with high temperature resistance or corrosion resistance shall be chosen under the condition of high temperature or corrosion.
- Necessary protection measure shall be taken in the environment with higher humidity, much dust or water drops, oil dust and welding dregs.
- 4. Dirty substances in the pipe must be eliminated before cylinder is connected with pipeline to prevent the entrance of particles into the cylinder.
- 5. The medium used by cylinder shall be filtered to 40µm or below.
- 6. As both of the front cover and piston of the cylinder are short, typically too large stroke can not be selected.
- 7. Anti-freezing measure shall be adopted under low temperature environment to prevent moisture freezing.
- 8. The cylinder shall avoid the influence of side load in operation to maintain the normal work of cylinder and extend the service life.
- 9. If the cylinder is dismantled and stored for a long time, please conduct anti-rust treatment to the surface. Anti-dust caps shall be added in air inlet and outlet ports. The front and back cover can not be dismantled, which shall be especially noticed.

MPF Sarias





Specification

Bore size(mm)	6	8	10	12	16							
Acting type	Single acting											
Fluid		Air(to be filtered by 40µm filter element)										
Operating pressure	0.2~0.7MPa	a(28~100psi)	0.15~	0.7MPa(22~1	00psi)							
Proof pressure	1.2MPa(175psi)											
Mounting type	Embedded type, End inlet type											
Temperature			-20~70									
Speed range mm/s			50~500									
Stroke tolerance	+1.0											
Cushion type	No cushion											
Port size	M5×0.8											

Symbol



Product feature

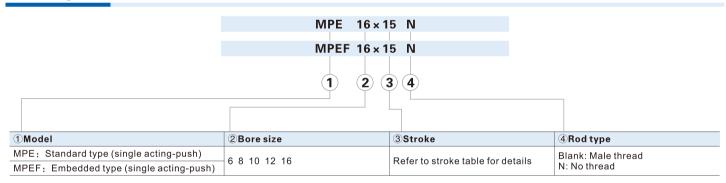
- 1. It is compact, small and light.
- 2. Multi cylinders can be integrated to save room.
- 3. Mounting accessories are not necessary.
- 4. Cylinders of various specifications are optional.

Stroke

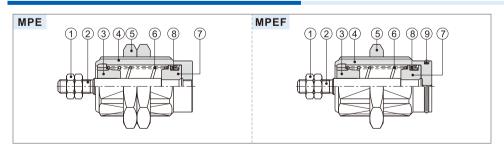
Bore size (mm)	Standard stroke (mm)	Max.std stroke
6	5 10 15	15
8	5 10 15	15
10	5 10 15	15
12	5 10 15	15
16	5 10 15	15

[Note] Please contact the company for other special strokes.

Ordering code



Inner structure and material of major parts



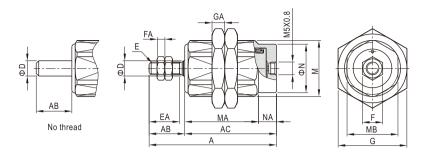
NO.	Item	Material
1	Rod nut	Stainless steel
2	Piston rod	Stainless steel
3	Front cover	Brass
4	Body	Brass (nickel-plated)
5	Body nut	Carbon steel
6	Spring	Spring steel
7	Piston	Stainless steel
8	Piston seal	NBR
9	O-ring	NBR



MPE Series

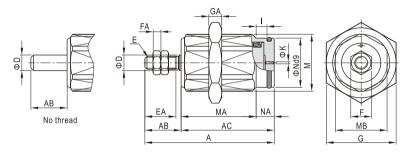
Dimensions

MPE

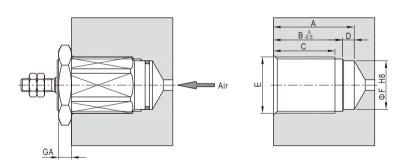


Bore size\Item	Α		Α		Α		AC			MA		D	Е	EA	F	FA	G	GA	М	МВ	N	NA
Stroke	5St	10St	15St	AB	5St	10St	15St	5St	10St	15St	ט	_	EA	'	FA	G	GA	IVI	IVID	IN .	INA	
6	30.5	37.5	44.5	9	21.5	28.5	35.5	15.5	22.5	29.5	3	M3×0.5	7	5.5	2.4	14	4	M10×1.0	9	8.5	6	
8	34.5	41.5	48.5	12	22.5	29.5	36.5	16.5	23.5	30.5	4	M4×0.7	10	7	3	17	4	M12×1.0	11	10	6	
10	35	42	49	12	23	30	37	17	24	31	5	M4×0.7	10	7	3	19	4	M16×1.5	14	12	6	
12	37.5	43.5	49.5	12	25.5	31.5	37.5	19.5	25.5	31.5	6	M5×0.8	10	8	3	24	5	M18×1.5	16	15	6	
16	40.5	46.5	52.5	14	26.5	32.5	38.5	19.5	25.5	31.5	6	M5×0.8	12	8	3	27	5	M22×1.5	20	19	7	

MPEF



Bore size\Item		Α		АВ	AC			MA		ь	D E		-	FA	G	GA		М	МВ	N	NA	K	
Stroke	5St	10St	15St	AD	5St	5St 10St		5St	10St 15St				EA	F	FA	G	GA	•	IVI	IVID	IN	INA	K
6	28	35	42	9	19	26	33	13	20	27	3	M3×0.5	7	5.5	2.4	14	4	2.5	M10×1.0	9	8.5	6	0.6
8	32	39	46	12	20	27	34	14	21	28	4	M4×0.7	10	7	3	17	4	2.5	M12×1.0	11	10	6	0.8
10	32.5	39.5	46.5	12	20.5	27.5	34.5	14	21	28	5	M4×0.7	10	7	3	19	4	2.5	M16×1.5	14	12	6.5	1
12	35	41	47	12	23	29	35	16.5	22.5	28.5	6	M5×0.8	10	8	3	24	5	2.7	M18×1.5	16	15	6.5	1.3
16	38	44	50	14	24	30	36	17	23	29	6	M5×0.8	12	8	3	27	5	2.7	M22×1.5	20	19	7	1.7



Bore size\Item		Α			В			С		_	Е	_	GA	
Stroke	5St	10St	15St	5St	10St	15St	5St	10St	15St	U	_	Г	GA	
6	14.5	21.5	28.5	11	18	25	8.5	15.5	22.5	3.5	M10×1.0	8.5	4	
8	15	22	29	11.5	18.5	25.5	9	16	23	3.5	M12×1.0	10	4	
10	15.5	22.5	29.5	12	19	26	9	16	23	3.5	M16×1.5	12	4	
12	17	23	29	13.5	19.5	25.5	10.5	16.5	22.5	3.5	M18×1.5	15	5	
16	18	24	30	14	20	26	11	17	23	4	M22×1.5	19	5	

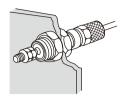
[Note] Size E and F must be concentric.



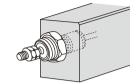
MPE Series

Mounting and use

1. Select applicable cylinder model and mounting method according to actual situation



With mounting bracket (used for MPE type)



Embedded mounting (used for MPEF type)

- 2. MPE series are single acting cylinders. No load is allowed at the piston rod when it is on the retraction state.
- 3. The force of the spring of the cylinder is for retraction of the piston rod only. The piston rod may not retract to the bottom end if there's any load.
- 4. Make sure the rod end lateral load is allowable. Otherwise may cause damage to the cylinder or reduce the service life.

