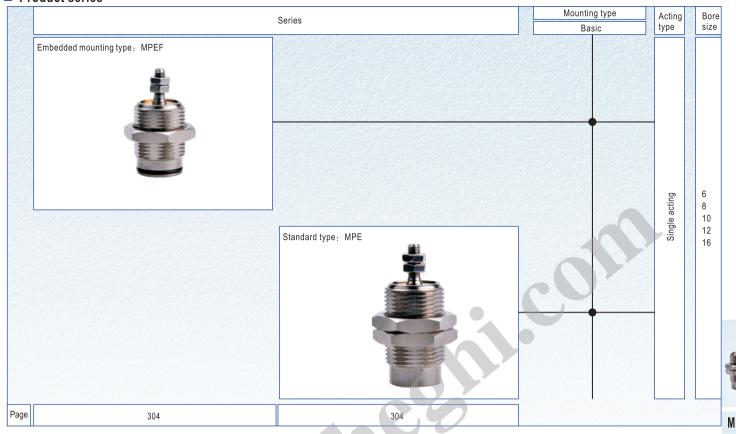


MPE Series Threaded Cylinder

Product series



Installation and application



- 1. When load changes in the work, the cylinder with abundant output capacity shall be selected.
- 2. Relative cylinder with high temperature resistance or corrosion resistance shall be chosen under the condition of high temperature or corrosion.
- 3. 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 40 μ m 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
- 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.

Criteria for selection: Cylinder thrust

Unit: Newton(N)

0 11 1	Bore size	Rod size	Acting type		Pressure area	Operating pressure(MPa)							
Cylinder series	(mm)	(mm)	Acting	туре	(mm²)	0.1	0.2	0.3	0.4	0.5	0.6	0.7	
	0 0	6	3	Single	Push side	28.3	-	1.8	4.6	7.4	10.3	13.1	15.9
	O	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 1	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	3	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	U	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	
	10	U	acting	Pull side	172.7				4.8				



MPE Series



Symbol





- 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.

Specification

Bore size(mm)	6	8	10	12	16							
Acting type		Single acting										
Fluid		Air(to be filtered by 40 μ m filter element)										
Operating pressure	0.2~0.7MP	0.2~0.7MPa(28~100psi)										
Proof pressure		1.05MPa(150psi)										
Mounting type		Embedded type, End inlet type										
Temperature °C			-20~80									
Speed range mm/s			50~500									
Stroke tolerance		+1.0										
Cushion type		No										
Port size	M5 × 0.8											

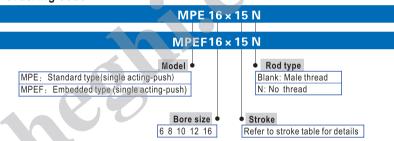
Stroke

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

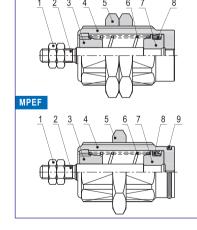
Note: Please contact the company for other special strokes.

Ordering code

MPE



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

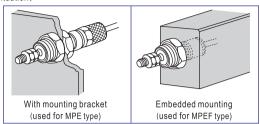




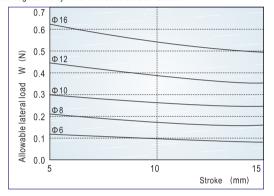
MPF Series

Mounting and use

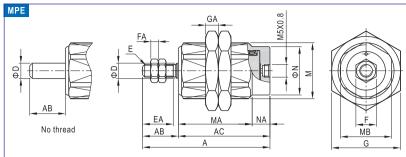
Select applicable cylinder model and mounting method according to actual situation -



- 2. MPE series are single acting cylinders. No load is allowed at the piston rod when it is on the retraction state.
- 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.
- Make sure the rod end lateral load is allowable. Otherwise may cause damage to the cylinder or reduce the service life.

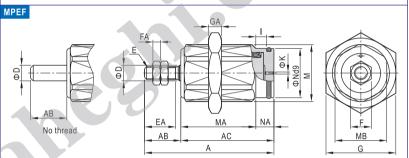


Dimensions



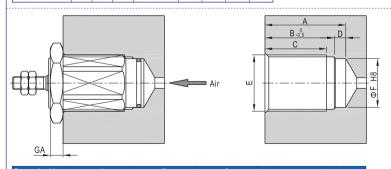
Bore size\Item		Α		۸D	AC		MA			<u> </u>	Е	ΕA	E	FA	
Stroke	5St	10St	15St	AD	5St	10St	15St	5St	10St	15St	U	_	EA		1.7
6			44.5			28.5	35.5	15.5	22.5	29.5	3	$M3 \times 0.5$	7	5.5	2.4
8	34.5	41.5	48.5	12	22.5	29.5	36.5	16.5	23.5	30.5	4	$M4 \times 0.7$	10	7	3
10	35	42	49	12	23	30	37	17	24	31	5	$M4 \times 0.7$	10	7	3
12	37.5	43.5	49.5	12	25.5	31.5	37.5	19.5	25.5	31.5	6	$M5 \times 0.8$	10	8	3
16	40.5	46.5	52.5	14	26.5	32.5	38.5	19.5	25.5	31.5	6	$M5 \times 0.8$	12	8	3

Bore size\Item	G	GA	M	MB	N	NA
6	14	4	$M10 \times 1.0$	9	8.5	6
8	17	4	$M12 \times 1.0$	11	10	6
10	19	4	$M16 \times 1.5$	14	12	6
12	24	5	$M18 \times 1.5$	16	15	6
16	27	5	M22 × 1.5	20	19	7



Bore size\Item		Α		۸D		AC			MA		D	Е	EA	e .	FA
Stroke	5St	10St	15St	AD	5St	10St	15St	5St	10St	15St	ט		EA	ļ.,	
6	28	35	42	9	19	26	33	13	20	27	3	$M3 \times 0.5$	7	5.5	2.4
8	32	39	46	12	20	27	34	14	21	28	4	$M4 \times 0.7$	10	7	3
10	32.5	39.5	46.5	12	20.5	27.5	34.5	14.5	21.5	28.5	5	$M4 \times 0.7$	10	7	3
12	35	41	47	12	23	29	35	17	23	29	6	$M5 \times 0.8$	10	8	3
16	38	44	50	14	24	30	36	17	23	29	6	$M5 \times 0.8$	12	8	3

Bore size\Item	G	GA		M	MB	N	NA	K
6	14	4	3.5	$M10 \times 1.0$	9	8.5	6	0.8
8	17	4	3.5	$M12 \times 1.0$	11	10	6	0.8
10	19	4	3.3	$M16 \times 1.5$	14	12	6	1
12	24	5	3	$M18 \times 1.5$	16	15	6	1.3
16	27	5	4	$M22 \times 1.5$	20	19	7	1.7



	Α			В			С		П	-	-	GA
5St	10St	15St	5St	10St	15St	5St	10St	15St	U	<u> </u>		
14.5	21.5	28.5	11	18	25	9	16	23	3.5	$M10 \times 1.0$	8.5	4
15	22	29	11.5	18.5	25.5	9.5	16.5	23.5	3.5	$M12 \times 1.0$	10	4
15.5	22.5	29.5	12	19	26	10	17	24	3.5	$M16 \times 1.5$	12	4
17	23	29	13.5	19.5	25.5	11.5	17.5	23.5	3.5	$M18 \times 1.5$	15	5
18	24	30	14	20	26	11.5	17.5	23.5	4	M22 × 1.5	19	5
	5St 14.5 15 15.5 17	5St 10St 14.5 21.5 15 22 15.5 22.5 17 23	5St 10St 15St 14.5 21.5 28.5 15 22 29 15.5 22.5 29.5 17 23 29	5St 10St 15St 5St 14.5 21.5 28.5 11 15 22 29 11.5 15.5 22.5 29.5 12 17 23 29 13.5	58t 108t 158t 58t 108t 14.5 21.5 28.5 11 18 15 22 29 11.5 18.5 15.5 22.5 29.5 12 19 17 23 29 13.5 19.5	5St 10St 15St 5St 10St 15St 14.5 21.5 28.5 11 18 25 15 22 29 11.5 18.5 25.5 15.5 22.5 29.5 12 19 26 17 23 29 13.5 19.5 25.5	5St 10St 15St 5St 10St 15St 5St 14.5 21.5 28.5 11 18 25 9 15 22 29 11.5 18.5 25.5 9.5 15.5 22.5 29.5 12 19 26 10 17 23 29 13.5 19.5 25.5 11.5	5St 10St 15St 5St 10St 15St 10St 14.5 21.5 28.5 11 18 25 9 16 15 22 29 11.5 18.5 25.5 9.5 16.5 15.5 22.5 29.5 12 19 26 10 17 17 23 29 13.5 19.5 25.5 11.5 17.5	58t 108t 158t 58t 108t 158t 58t 108t 158t 58t 108t 158t 14.5 21.5 28.5 11 18 25 9 16 23 15 22 29 11.5 18.5 25.5 9.5 16.5 23.5 15.5 22.5 29.5 12 19 26 10 17 24 17 23 29 13.5 19.5 25.5 11.5 17.5 23.5	5St 10St 15St 5St 10St 15St 5St 10St 15St D 14.5 21.5 28.5 11 18 25 9 16 23 3.5 15 22 29 11.5 18.5 25.5 9.5 16.5 23.5 3.5 15.5 22.5 29.5 12 19 26 10 17 24 3.5 17 23 29 13.5 19.5 25.5 11.5 17.5 23.5 3.5	5St 10St 15St 4 4 23 3.5 M10 × 1.0 1.0 15 22 29 11.5 18.5 25.5 9.5 16.5 23.5 3.5 M12 × 1.0 15.5 22.2 29.5 12 19 26 10 17 24 3.5 M16 × 1.5 17 23 29 13.5 19.5 25.5 11.5 17.5 23.5 3.5 M18 × 1.5	5St 10St 15St 5St 10St 15St 5St 10St 15St 9 16 23 3.5 M10 × 1.0 8.5 15 22 29 11.5 18.5 25.5 9.5 16.5 23.5 3.5 M12 × 1.0 10 15.5 22.5 29.5 12 19 26 10 17 24 3.5 M16 × 1.5 12 17 23 29 13.5 19.5 25.5 11.5 17.5 23.5 3.5 M18 × 1.5 15

Note: Size E and F must be concentric.



MPE



Note

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