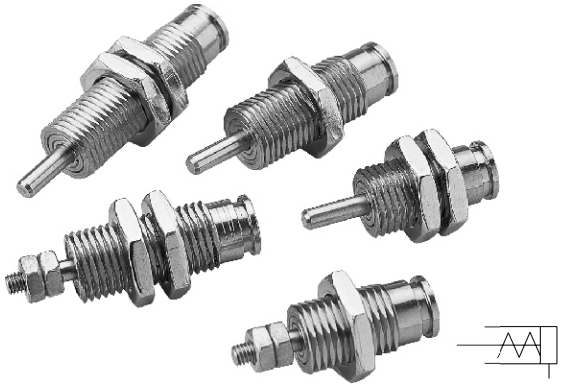
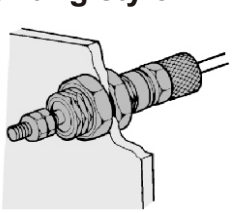
MCMJP* series

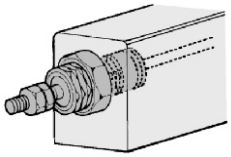
PEN CYLINDERS



Mounting style



B: Panel mounting style



S: Plug mounting style

Order example:

MCMJPB – 15 – 6 – 15

- MODEL
  - **B:** Panel mounting
  - **S:** Plug mounting
- **1**: Single Rod
- TUBE I.D.
- STROKE (mm)
  - **5**,**10**,**15**

STYLE:

Code		Symbol	Description
1	**0**		Single acting / Normally returned without thread
1	**5**		Single acting / Normally returned male thread

Features:

■ **A short stroke miniature cylinder with a shorter overall length.**

The installation space can be significantly reduced because this cylinder can be recessed directly into a machine body or installed on a panel. Thus, the machines can be made more compact.

Model		MCMJPB	MCMJPS
Acting type		Single acting	
Tube I.D. (mm)		6, 10, 15	
Medium		Air	
Max. operating pressure		7 kgf/cm^2	
Min. operating pressure	ϕ 6	2 kgf/cm^2	
	ϕ 10,15	1.5 kgf/cm^2	
Proof pressure		10 kgf/cm^2	
Ambient temperature		−5~+60℃ (No freezing)	
Lubricator		Not required	
Available speed range		50~500 mm/sec	

Table for standard stroke

Tube I.D.	Stroke (mm)
ϕ 6,10,15	5,10,15

Spring retracting force

(N)

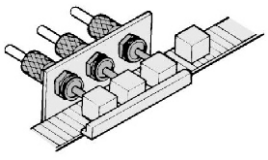
Tube I.D.	Extended position	Retracted position
ϕ 6	3.92	1.42
ϕ 10	5.98	2.45
ϕ 15	10.80	4.41

Theoretical force

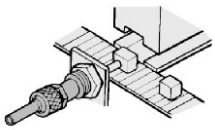
(N)

Tube I.D.	Operation direction	Operating Pressure (MPa)		
		0.3	0.5	0.7
ϕ 6	OUT	4.56	10.2	15.9
	IN	1.42		
ϕ 10	OUT	17.6	33.3	49.0
	IN	2.45		
ϕ 15	OUT	42.2	77.5	113
	IN	4.41		

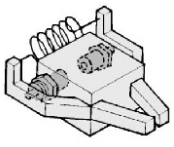
Application examples



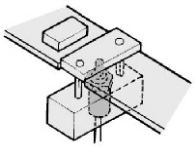
Clamper



Ejector



Gripper



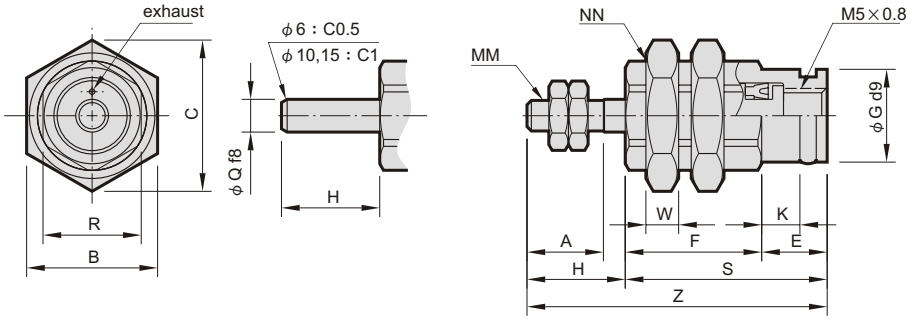
Stopper

MCMJP* Dimensions / Single acting ϕ6~ϕ15

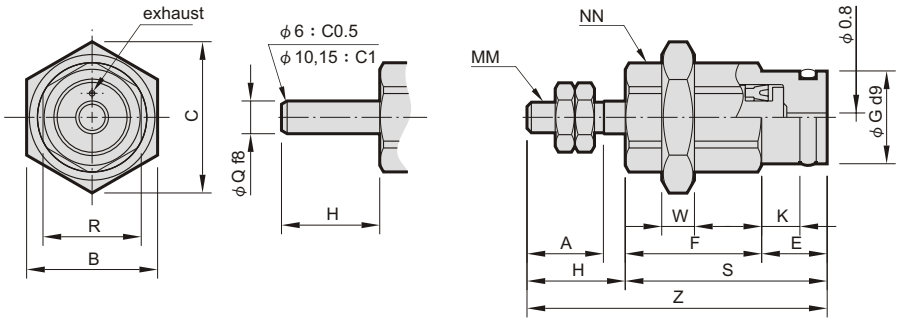
PEN CYLINDERS

Mindman

MCMJPB

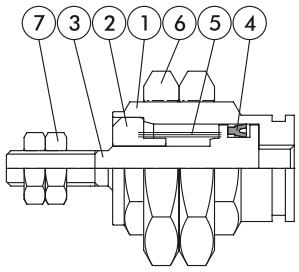


MCMJPS

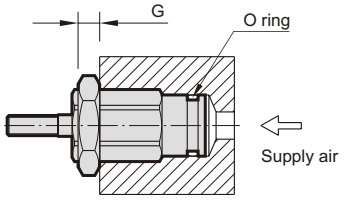


Code / Tube I.D.	A	B	C	E	F			G	H	K	MM	NN	Q	R	S			W	Z		
					5st	10st	15st								5st	10st	15st		5st	10st	15st
6	7	12	13.9	6	12.5	19.5	26.5	8.5	9	3.5	M3×0.5	M10×1.0	3	9	18.5	25.5	32.5	3	27.5	34.5	41.5
10	10	19	22	6	14.5	21	28	12	12	3.5	M4×0.7	M15×1.5	5	13	20.5	27	34	4	32.5	39	46
15	12	27	31	7	16.5	22.5	29	19	14	4.2	M5×0.8	M22×1.5	6	20	23.5	29.5	36	5	37.5	43.5	50

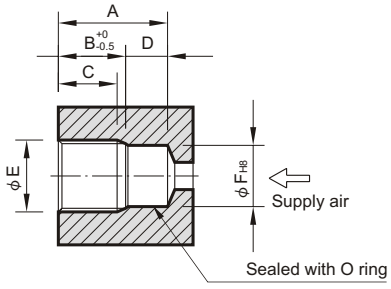
Inside structure & Parts list:



No.	Part name	Material		
		6	10	16
1	Body	Copper		
2	Cover	Copper		
3	Piston rod	Stainless steel		
4	Pistion packing	NBR		
5	Spring	SWP		
6	Nut	Copper		
7	Rod front nut	Copper	Rolled steel	



When plug mounting



Maching dimension for mounting

Tube I.D.	Code / Stroke	A	B	C	D	E	F	G
6	5	16	12.5	10	3.5	M10×1.0	8.5	3
	10	23	19.5	17				
	15	30	26.5	24				
10	5	17	13.5	10.5	3.5	M15×1.5	12	4
	10	23.5	20	17				
	15	30.5	27	24				
15	5	19	14.5	11.5	4.5	M22×1.5	19	5
	10	25	20.5	17.5				
	15	31.5	27	24				