

MCB series

LOCKING UNIT



Order example:

MCB — 40

MODEL

TUBE I.D.

Features:

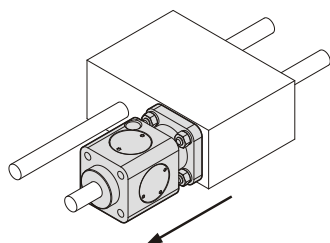
- Locking unit is a mechanical device to apply to cylinders ISO 15552 and 6432 VDMA whose scope is to block cylinder's rod in any position. This solution allows to block the race of the cylinder anytime takes place an unexpected fall of pressure.
- The blocking force is always and however greater of the one developed from the respective cylinder at 10 kgf/cm².

Specification:

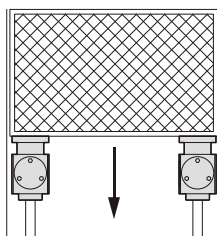
Model	MCB									
Tube I.D. (mm)	20	25	32	40	50	63	80	100	125	
Rod diameter (mm)	8	10	12	16	20	20	25	25	32	
Medium	Air									
Operating pressure range	3~6 kgf/cm ²									
Proof pressure	15 kgf/cm ²									
Ambient temperature	-5~+80°C (No freezing)									
Min. working pressure	3 kgf/cm ²									
Locking mode	Secure locking of piston rod in any position									
Lock retention forces (N) Max. static loading— Horizontal mounting	490	490	790	1240	1930	3060	5400	7700	12040	

Other examples of locking unit applications:

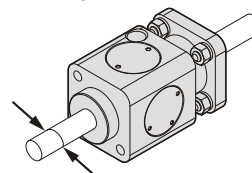
For slides



For piling



Chromium-plated shaft



Tolerance	f7
Rod diameter	8,10,12,16,20,25,32

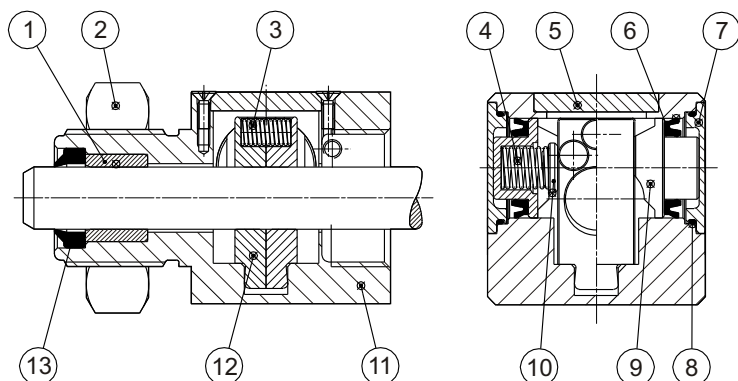
MCB Inside structure & Parts list

LOCKING UNIT



Attention

- Locking unit functioning is static type (cylinder's rod stopped).
- Before using the brake, take care to stop cylinder's rod.

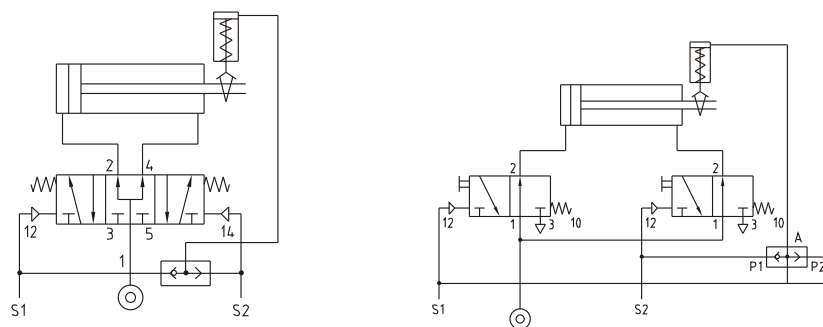


Material

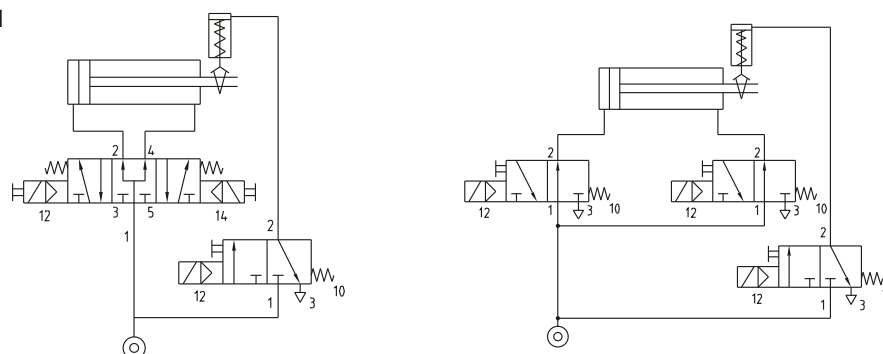
No.	Part name	Material
1	Guida bush	Iglidur
2	Nut	Steel
3	Spring	Steel
4	Spring	Steel
5	Superior cover	Aluminum alloy
6	Seal piston	NBR
7	Lateral cover	Aluminum alloy
8	O-ring	NBR
9	Piston	Delrin
10	Spring cover	Delrin
11	Body	Aluminum alloy
12	Jaws	Bronze
13	Rod seal	NBR

Connection scheme

Pneumatic control

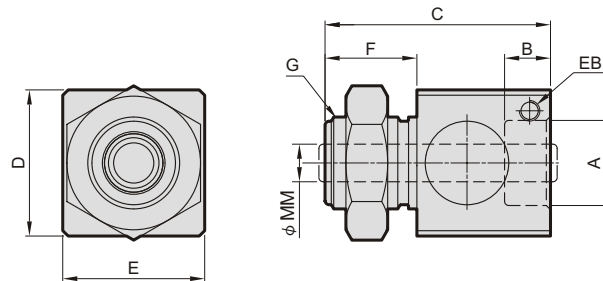


Electropneumatic control

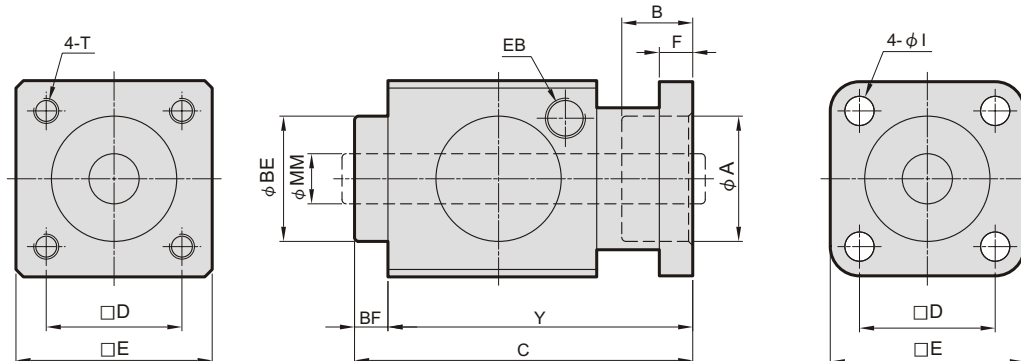


MCB Dimensions $\phi 20 \sim \phi 100$

LOCKING UNIT



Code Tube I.D.	A	B	C	D	E	EB	F	G	MM	Weight (kg)
20	M22×1.5	11	54	35	34	M5	22	M22×1.5	8	0.19
25	M22×1.5	11	54	35	34	M5	22	M22×1.5	10	0.19



Code Tube I.D.	A	B	BE	BF	C	D	E	F	EB	I	MM	T	Y	Weight (kg)
32	30.5	19.5	30	7.5	67.5	32.5	47	6	G 1/8	6.5	12	M6×8L	60	0.4
40	35.5	22.5	34.9	10	80	38	54	6	G 1/8	6.5	16	M6×8L	70	0.6
50	40.5	29	40	10	100	46.5	65	8	G 1/8	9	20	M8×12L	90	1.1
63	45.5	29	45	10	100	56.5	75	8	G 1/8	9	20	M8×12L	90	1.5
80	45.5	37	45	10	120	72	95	12	G 1/4	11	25	M10×16L	110	2.6
100	55.5	39	55	10	120	89	114	12	G 1/4	11	25	M10×16L	110	3.5
125	60.5	51.5	60	16	156	110	138	20	G 1/4	13	32	M12×20L	140	6.5