

- Rugged, compact units
- Integral rear eye mounting
- Corrosion resistant construction
- Non-rotating piston rods on 10 and 16 mm bore models

Single Acting
Ø10 - 25 mm bore



Technical Data

Medium:

Compressed air, filtered and lubricated

Operation:

Single acting

Operating Pressure:

3 - 10 bar 10 and 16 mm bore models

2 - 10 bar 20 and 25 mm bore models

Operating Temperature

-20°C* to +60°C 10 and 16 mm bore models

-20°C* to +80°C 20 and 25 mm bore models

*Consult our Technical Service for use below +2°C

Stock Strokes:

15, 25, 50 mm all bore sizes

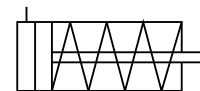
10 and 75 mm also on 20 and 25 mm bore models

Cylinder Diameters

10, 16, 20, 25 mm

Materials

Stainless steel (Austenitic) piston rod (mild steel on 10 and 16 mm bore models), aluminium barrel, brass piston, glass filled nylon end covers on 10 and 16 mm bore models, die cast aluminium end covers on 20 and 25 mm bore models, nitrile rubber seals.

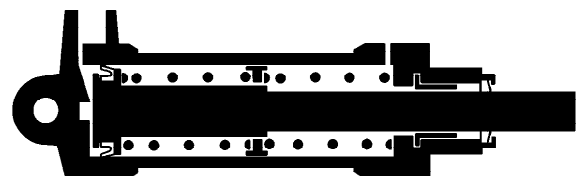


Ordering Information

To order a 16 mm bore cylinder with a 50 mm stroke without mounting brackets quote:

M/7016/50.

To order mounting brackets refer to appropriate cylinder mounting table.





Theoretical Forces/Air Consumption

Bar		2	3	4	5	6	7	8	9	10
M/7010 Ø10	F1	–	18	26	34	42	49	57	65	73
	Q1	–	0,00314	0,00392	0,00471	0,00549	0,00628	0,00706	0,00785	0,00864
	F2 = 3/7									
M/7016 Ø16	F1	–	48	68	88	108	128	148	168	189
	Q1	–	0,00804	0,01005	0,01206	0,01407	0,01608	0,01809	0,02010	0,02211
	F2 = 6/18,5									
M/7020 Ø20	F1	37	69	100	132	163	194	226	257	289
	Q1	0,00942	0,01256	0,01571	0,01885	0,02199	0,02513	0,02827	0,03142	0,03456
	F2 = 10/40									
M/7025 Ø25	F1	71	120	169	218	267	316	365	414	463
	Q1	0,01472	0,01963	0,02454	0,02945	0,03436	0,03927	0,04418	0,04909	0,05400
	F2 = 15/40									

F1 - Force (N) outstroke Q1 - Consumption (l/cm)

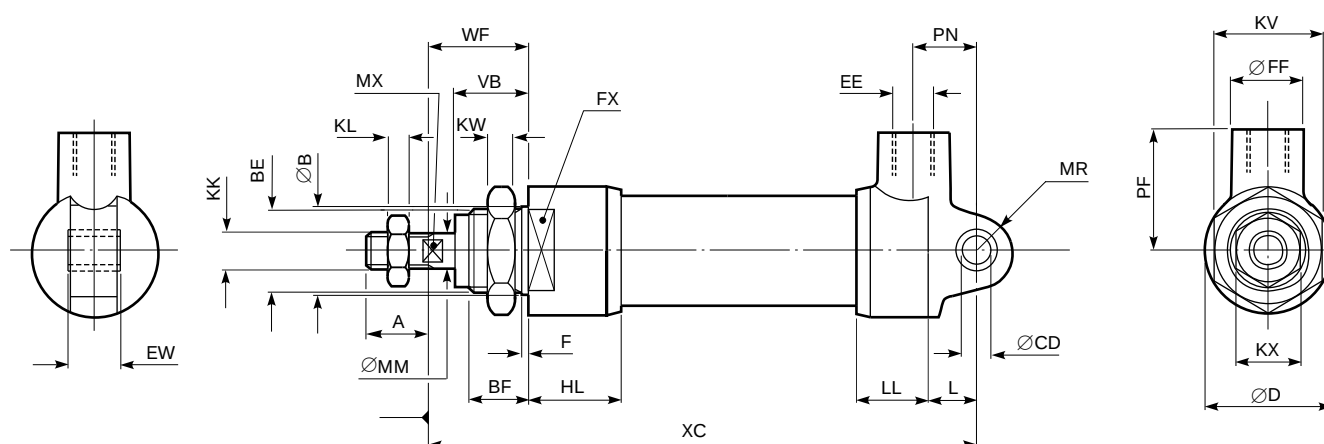
F2 - Return force (N) of spring retracted/extended

Weights of Cylinders and Mountings (kg)

Ø	Weight up to 25 mm	Weight per 25 mm	Weight of Mountings					
			C	F	L	M	T	UF
10	0,046	0,027	0,010	0,010	0,006	0,015	0,025	–
16	0,106	0,052	0,018	0,015	0,012	0,026	0,045	–
20	0,250	0,040	0,040	0,020	0,020	0,040	–	0,045
25	0,360	0,050	0,055	0,050	0,035	0,080	–	0,070



Basic Cylinder Dimensions



Model	M/7010	M/7016	M/7020	M/7025
Ø	10	16	20	25
A	8 ⁺¹	12 ⁺¹	15 ^{+0,5}	20 ^{+0,5}
B	11 ^{-0,02 -0,15}	17 ^{-0,02 -0,15}	19h8	23h8
D	16,6	25,4	28	33
F	1	1	1	1,5
L	5,5	7	8	9
BE	M10x1,25 - 6g	M16x1,5 - 6g	M18x1,5	M22x1,5
BF	10,5	12	13	16
CD	4,10 4,02	5,10 5,02	5,01 5,00	6,01 5,99
EE	M5x0,8 - 6H	M5x0,8 - 6H	G ¹ / ₈	G ¹ / ₈
EW	8,3	10	12,1 11,8	16,1 15,8
FF	8	8	16	16
FX A/F	—	—	22,0	27,0
HL	11	14,5	30	30
KK	M4x0,7 - 6g	M6x1 - 6g	M8x1,25 - 6g	M10x1,5 - 6g
KL	2	3	5	6
KV A/F	14,0	22,0	24,0	27,0
KW	4,5	5	5	8
KX A/F	7,00	10,00	13,00	17,00
LL	8,5	11	15,5	15,5
MM	4h11*	6h11*	8,000 7,964	10,000 9,964
MR	4,5	6	8	9
MX A/F	—	—	6,0	8,0
PF	13	14	26	28
PN	3,5	5,5	11	12
VB	—	—	16	18,5
WF	16,5	20,5	20,5	27,5
XC 10 mm stroke	—	—	100 ^{±0,75}	101 ^{±0,75}
15 mm stroke	66 ^{±1,6}	81 ^{±1,6}	100 ^{±0,75}	101 ^{±0,75}
25 mm stroke	86 ^{±1,6}	91 ^{±1,6}	100 ^{±0,75}	101 ^{±0,75}
50 mm stroke	131 ^{±1,6}	132 ^{±1,6}	152 ^{±0,75}	152 ^{±0,75}
75 mm stroke	—	—	205 ^{±0,75}	203 ^{±0,75}

*Square section piston rod

Mountings

C	F	L	M	T	UF		