

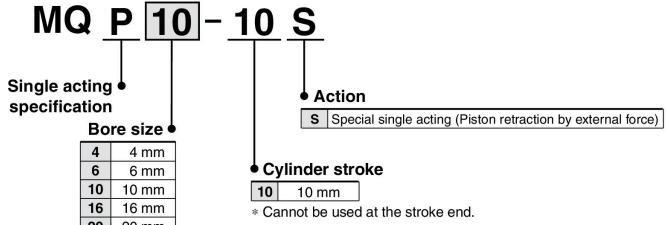
Low Friction Cylinder (Single Acting)

MQP Series

ø4, ø6, ø10, ø16, ø20



How to Order

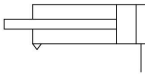


* The MQP series is not auto switch capable.



Symbol

Single acting (Pressing force)



Specifications

Bore size (mm)	4	6	10	16	20
Seal construction	Metal seal				
Action	Special single acting (Piston retraction by external force)				
Proof pressure	1.05 MPa				
Maximum operating pressure	0.7 MPa				
Minimum operating pressure ^{Note 1)}	0.001 MPa				
Ambient and fluid temperature	+5 to +80°C				
Lubrication ^{Note 2)}	Not required (Non-lube)				
Stroke length tolerance	+1.0 0				
Total ^{Note 3)} leakage	Supply pressure 0.1 MPa	100 cm ³ /min			
	Supply pressure 0.3 MPa	500 cm ³ /min			
	Supply pressure 0.5 MPa	1000 cm ³ /min			

Note 1) Excluding the mass of moving parts.

Note 2) Refer to precautions on page 344 regarding lubrication. This product uses turbine oil as an initial lubricant. Lubricant may seep out of the rod or the piping port.

Note 3) The values are only for reference and are not guaranteed.

Moving Parts and Total Mass

Unit: g

Bore size (mm)	Moving parts mass	Total mass
4	4	43
6	8	55
10	24	96
16	62	161
20	103	239

Theoretical Output (Guide)

Unit: N

Bore size (mm)	Piston area (mm ²)	Operating pressure (MPa)						
		0.1	0.2	0.3	0.4	0.5	0.6	0.7
4	12.6	1.3	2.6	3.9	5.2	6.5	7.8	9.1
6	28.3	2.8	5.6	8.4	11.2	14.0	16.8	19.6
10	78.5	7.9	15.7	23.6	31.4	39.3	47.1	55.0
16	201.1	20.1	40.2	60.3	80.4	100.6	120.7	140.8
20	314.2	31.4	62.8	94.3	125.7	157.1	188.5	219.9