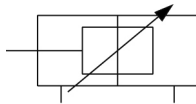


C(D)QM, Compact Cylinder, Guide Rod Type

CDQMB50TF-20

Datasheet

- Guide rod type compact cylinder
- Bore sizes (mm): 12, 16, 20, 25, 32, 40, 50, 63, 80, 100
- Standard strokes (mm): 5 to 100
- 4 times the lateral load resistance of the CQ2K
- Non-rotating accuracy 0.2 or less



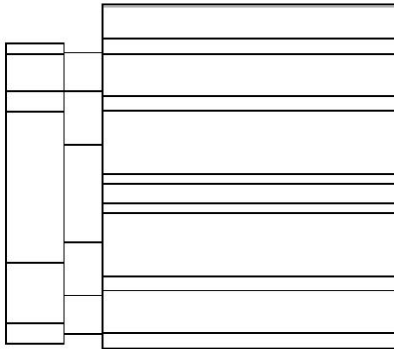
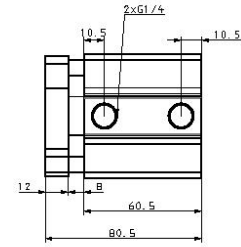
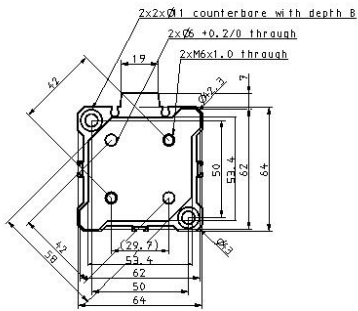
Double-acting cylinder with cushioning adjustable at both ends, single piston rod

Standard specifications

Magnet	D (Built-in)
Mounting	B [Through Hole (Standard)]
Bore Size	Ø50 mm
Port Thread	TF [G]
Stroke	20 mm
Auto Switch	No Switch
Lead Wire or Prewired Connector	0.5 m
Number	2 pcs.
-	Compressed air
Maximum temperature of pressure medium with magnet	60 °C
Minimum temperature of pressure medium with magnet	-10 °C (with no freezing)
Maximum operating pressure	1.0 MPa
Minimum operating pressure	0.1 MPa
Proof pressure	1.5 MPa
Maximum ambient temperature with magnet	60 °C
Minimum ambient temperature with magnet	-10 °C (with no freezing)
Pneumatic input connection	G 1/4
Pneumatic exhaust connection	G 1/4
Theoretical cylinder force, advance stroke (at 0.5 MPa)	982

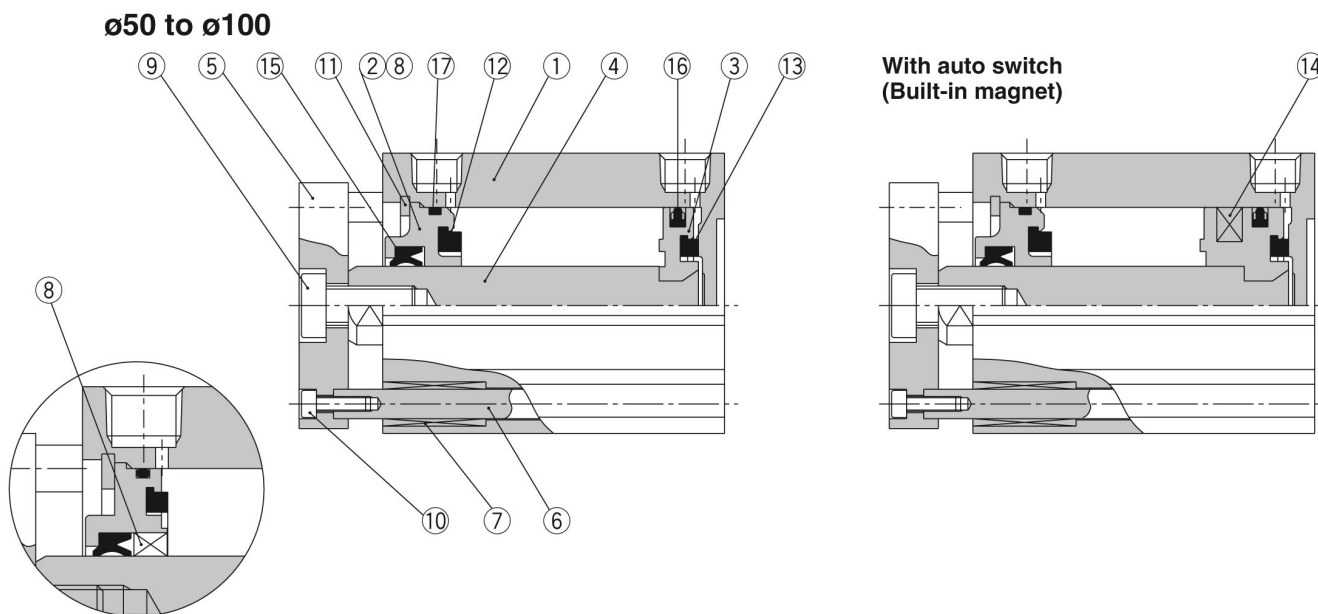
Theoretical cylinder force, return stroke (at 0.5 MPa)	825
Maximum piston speed	300 mm/s
Type of cushioning	Rubber bumper on both ends
Piston rod end	Without thread
Non-rotating accuracy of plate	$\pm 0.1^\circ$
Allowable rotational torque	1.45N·m
Weight	0.698 Kg

Dimensions



Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.

Constructions



Component Parts

No.	Description	Material	Note
1	Cylinder tube	Aluminium alloy	Hard anodised
2	Collar	Aluminium alloy	Chromated, Coated
3	Piston	Aluminium alloy	Chromated
4	Piston rod	Carbon steel	Hard chrome plated
5	Plate	Aluminium alloy	Anodised
6	Guide rod	Stainless steel	Hard chrome plated
7	Bushing	Oil-impregnated sintered alloy	
8	Bushing	Bronze alloy	
9	Hexagon socket head cap screw	Carbon steel	Nickel plated
10	Hexagon socket head cap screw	Carbon steel	Nickel plated
11	Snap ring	Carbon tool steel	Phosphate coated
12	Bumper A	Urethan	
13	Bumper B	Urethan	
14	Magnet	—	
15	Rod seal	NBR	
16	Piston seal	NBR	
17	Gasket	NBR	

Additional information

Catalogue

[CQM_EU.pdf](#)

Operation manuals

[cqm_op_manual_cqm_-om0001c.pdf](#)