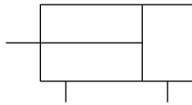


## C(D)QS, Compact Cylinder, Double Acting, Single Rod configurator CDQSB12-50DCM

### Datasheet

The CQS compact cylinder is available for those small bore cylinder applications where saving space is a concern. While sharing many of the outstanding features of the CQ2 series, the CQS offers standard long strokes (up to 300mm) in four bore sizes from 12 to 25mm. Long stroke versions incorporate a wear band and thicker piston to handle the increased bearing needs of the longer strokes. Both switch capable and non-switch capable body styles are the same, and switches can be mounted on three (12-16 bore) and four (20-25 bore) sides. An increased side load version (CQS\*S) is available for more demanding applications.



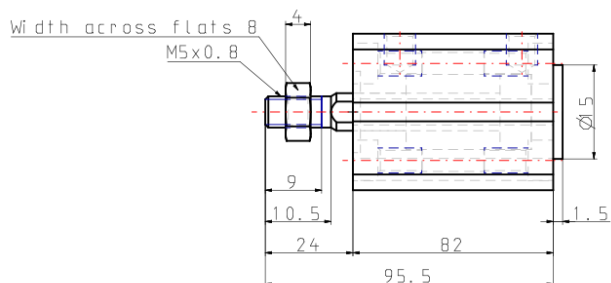
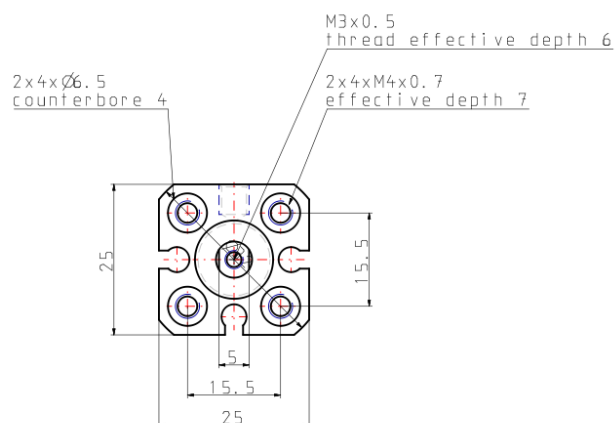
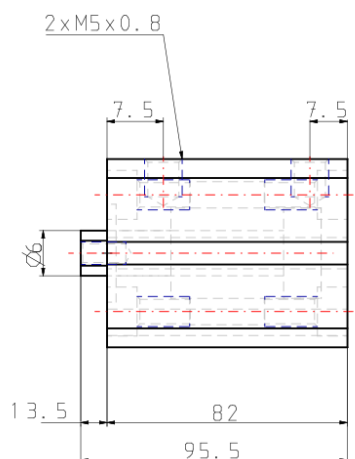
Double-acting, single-rod cylinder

### Standard specifications

Magnet	D (Built-in)
Mounting	B (Through Hole, Both Ends Tapped)
Bore Size	Ø12 mm
Lube-retainer	Without Stable Lubrication Function
Stroke	50
Option	CM (Rubber Cushion, Rod End Male Thread)
Auto Switch	No Switch
Lead Wire or Prewired Connector	0.5 m (Or None in the Case of No Switch)
Number	2 pcs.
Dust Resistant	None
Rod End Options	None
Pressure medium	Air
Maximum temperature of pressure medium	60 °C
Minimum temperature of pressure medium with magnet	-10 °C
Maximum operating pressure	1.0 MPa
Minimum operating pressure	0.07 MPa
Proof pressure	1.5 MPa
Maximum ambient temperature	60 °C

Minimum ambient temperature with magnet	-10 °C
Conform to the European RoHS Directive	Conform
Numero of pneumatic connections	2 pcs.
Pneumatic input connection	M5
Mode of operation of drive	Double acting
Theoretical cylinder force, advance stroke (at 0.5 MPa)	57 N
Theoretical cylinder force, return stroke (at 0.5 MPa)	42 N
Maximum piston speed	500 mm/s
Piston rod end	Internal thread
Geometric form of the piston rod	Round piston rod
Male thread of rod end	M5
Female thread of rod end	M3
Minimum piston speed	50 mm/s
Lubrication	Non-lube
Weight	0.130 Kg

## Dimensions

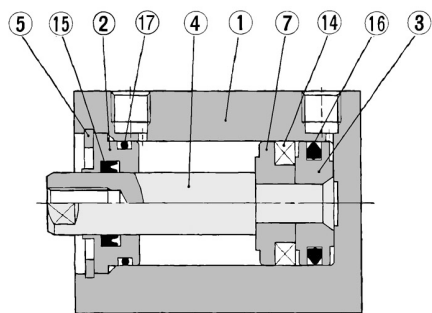




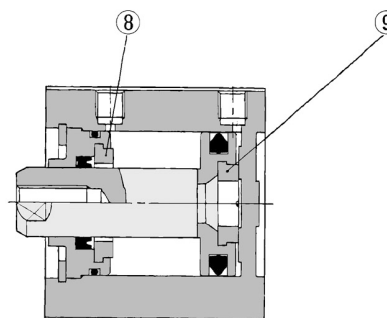
## Constructions

### Construction

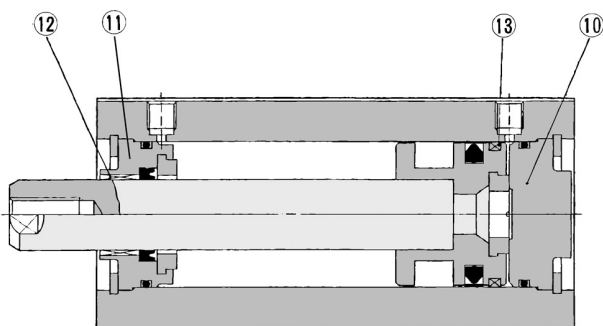
**With auto switch  
(Built-in magnet)**  
ø12, ø16



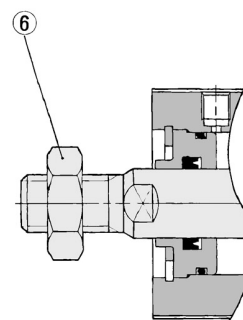
**With rubber bumper**



**Long stroke**



**Rod end male thread**



#### Component Parts

No.	Description	Material	Note
①	Cylinder tube	Aluminum alloy	Hard anodized
②	Collar	Aluminum bearing alloy	Anodized
③	Piston	Aluminum alloy	Chromated
④	Piston rod	Stainless steel	
⑤	Snap ring	Carbon tool steel	Phosphate coating
⑥	Rod end nut	Carbon steel	Nickel plated
⑦	Switch spacer	Aluminum alloy	Chromated
⑧	Bumper A	Urethane	
⑨	Bumper B	Urethane	
⑩	Head cover	Aluminum alloy	Anodized

#### Component Parts

No.	Description	Material	Note
⑪	Collar	Aluminum alloy	Anodized
⑫	Bushing	Oil impregnated sintered alloy	
⑬	Wearing	Resin	
⑭	Magnet	—	
⑮	Rod seal	NBR	
⑯	Piston seal	NBR	
⑰	Tube gasket	NBR	

## Additional information

Catalogue

[CQS\\_EU.pdf](#)