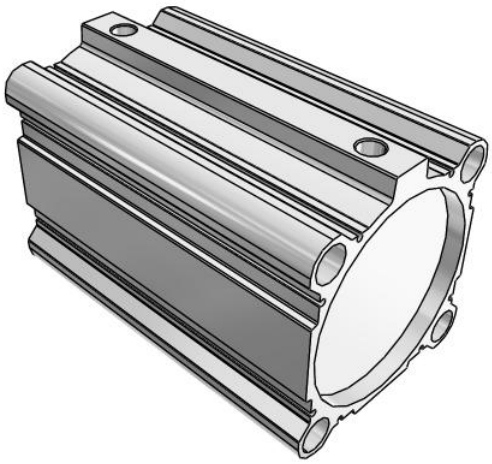
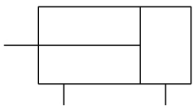


C(D)Q2, Compact Cylinder, Double Acting, Single Rod, Large Bore w/Auto Switch Mounting Groove

CDQ2B125TF-150DCZ

Datasheet

Following a review of our popular CQ2 compact cylinder Series our R&D engineers have totally redesigned the complete cylinder range to bring you even more performance benefits and increased cylinder options. The major difference between the new CQ2 range and the old model is the totally redesigned body, which offers improved auto-switch mounting possibilities plus an overall reduction of cylinder weight of between 5 -13% depending on the model. Now, all CQ2 cylinders from Ø 32 to 200mm are designed with slide in grooves which can accommodate auto-switches on all four cylinder sides without the need for auto-switch brackets. And, for smaller bore sizes between Ø 12 and 25mm, slide in grooves have also been integrated in the new body design to accommodate bracket free auto-switches on two surfaces. Designed for use with our simple to set, dual colour, solid state auto-switches, the integrated auto-switch channel ensures total protection against potential accidental damage and improved health and safety benefits during both installation and maintenance procedures.



Double-acting, single-rod cylinder

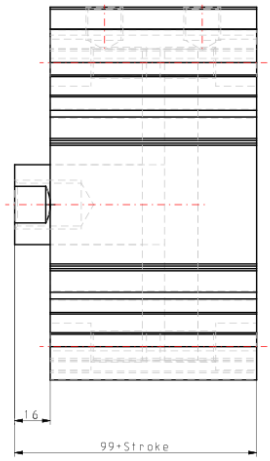
Standard specifications

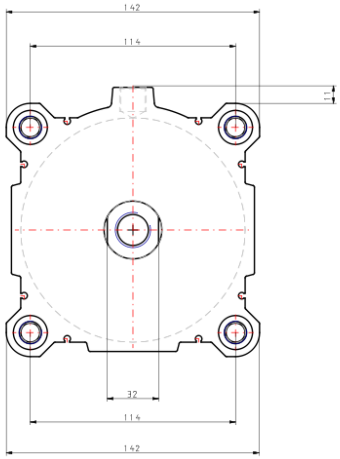
Magnet	D (Built-in)
Bore Size	Ø125 mm
Port Thread Type	TF (G)
Stroke	150
Body Option	Standard (Rod End Female Thread)
Auto Switch	No Switch
Lead Wire or Prewired Connector	0.5 m or None in the Case of No Switch
Number	2 pcs.
Rod End Options	None
Fluororubber Seal	None
Pressure medium	Compressed air
Maximum temperature of pressure medium with magnet	60 ºC
Minimum temperature of pressure medium with magnet	-10 °C
Maximum operating pressure	1.0 MPa

SMC CORPORATION Zuazobidea 14, 01012, Vitoria-Gasteiz, Álava +34 945184100 +34 945184126 www.smc.eu emcmarketing@smc.smces.es

Minimum operating pressure	0.05 MPa
Proof pressure	1.5 MPa
Maximum ambient temperature with magnet	60 ºC
Minimum ambient temperature with magnet	-10 °C
Conform to the European RoHS Directive	Conform
Numbero of pneumatic connections	2 pcs.
Pneumatic input connection	G 3/8
Mode of operation of drive	Double acting
Theoretical cylinder force, advance stroke (at 0.5 MPa)	5,627 N
Theoretical cylinder force, return stroke (at 0.5 MPa)	6,136 N
Maximum piston speed	500 mm/s
Piston rod end	Male thread
Geometric form of the piston rod	Single rod
Male thread of rod end	M30 x 1.5
Female thread of rod end	M22 x 2.5
Minimum piston speed	50 mm/s
Weight	9.170 Kg

Dimensions

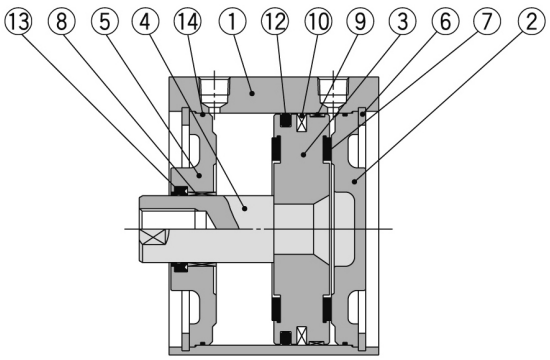




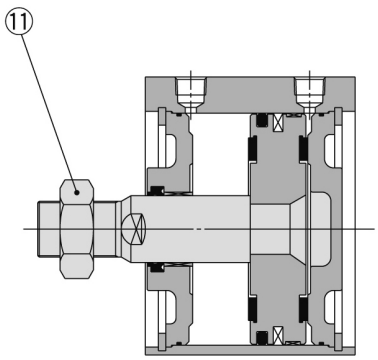
SMC CORPORATION Zuazobidea 14, 01012, Vitoria-Gasteiz, Álava +34 945184100 +34 945184126 www.smc.eu emcmarketing@smc.smces.es

Constructions

Standard



Rod end male thread



Component Parts

No.	Description	Material	Note
1	**Cylinder tube**	Aluminum alloy	Hard anodised
2	**Head cover**	Carbon steel	Nickel plated
3	**Piston**	Aluminum alloy	Chromated
4	**Piston rod**	Carbon steel	Hard chrome plated
5	**Rod cover**	Carbon steel	Nickel plated
6	**Retaining ring**	Carbon tool steel	Phosphate coated
7	**Bumper**	Urethane	
8	**Bushing**	Bearing alloy	
9	**Wear ring**	Resin	
10	**Magnet**	—	For CDQ2B□ only
11	**Rod end nut**	Carbon steel	Nickel plated
12	**Piston seal**	NBR	
13	**Rod seal**	NBR	
14	**Tube gasket**	NBR	

Replacement Parts/Seal Kit

Bore size (mm)	Kit no.	Contents
125	CQ2B125-PS	Kits include items ⑫, ⑬, ⑭ from the table.
140	CQ2B140-PS	
160	CQ2B160-PS	
180	CQ2B180-PS	
200	CQ2B200-PS	

* Seal kit includes ⑫, ⑬, ⑭. Order the seal kit, based on each bore size.
* Since the seal kit does not include a grease pack, order it separately.
Grease pack part no.: GR-S-010 (10 g)

SMC CORPORATION Zuazobidea 14, 01012, Vitoria-Gasteiz, Álava +34 945184100 +34 945184126 www.smc.eu emcmarketing@smc.smces.es

Additional information

Catalogue CQ2-Z-B_EU.pdf

SMC CORPORATION Zuazobidea 14, 01012, Vitoria-Gasteiz, Álava +34 945184100 +34 945184126 www.smc.eu emcmarketing@smc.smces.es