



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

CQ2B180-300DCZ

Datasheet

General series information

- Compact, double acting, single rod, large bore
- Bore sizes (mm): 125, 140, 160, 180, 200
- Standard stroke range (mm): 10 to 300
- Port threads: Rc, NPT, G
- Can mount small auto switches on 4 surfaces.



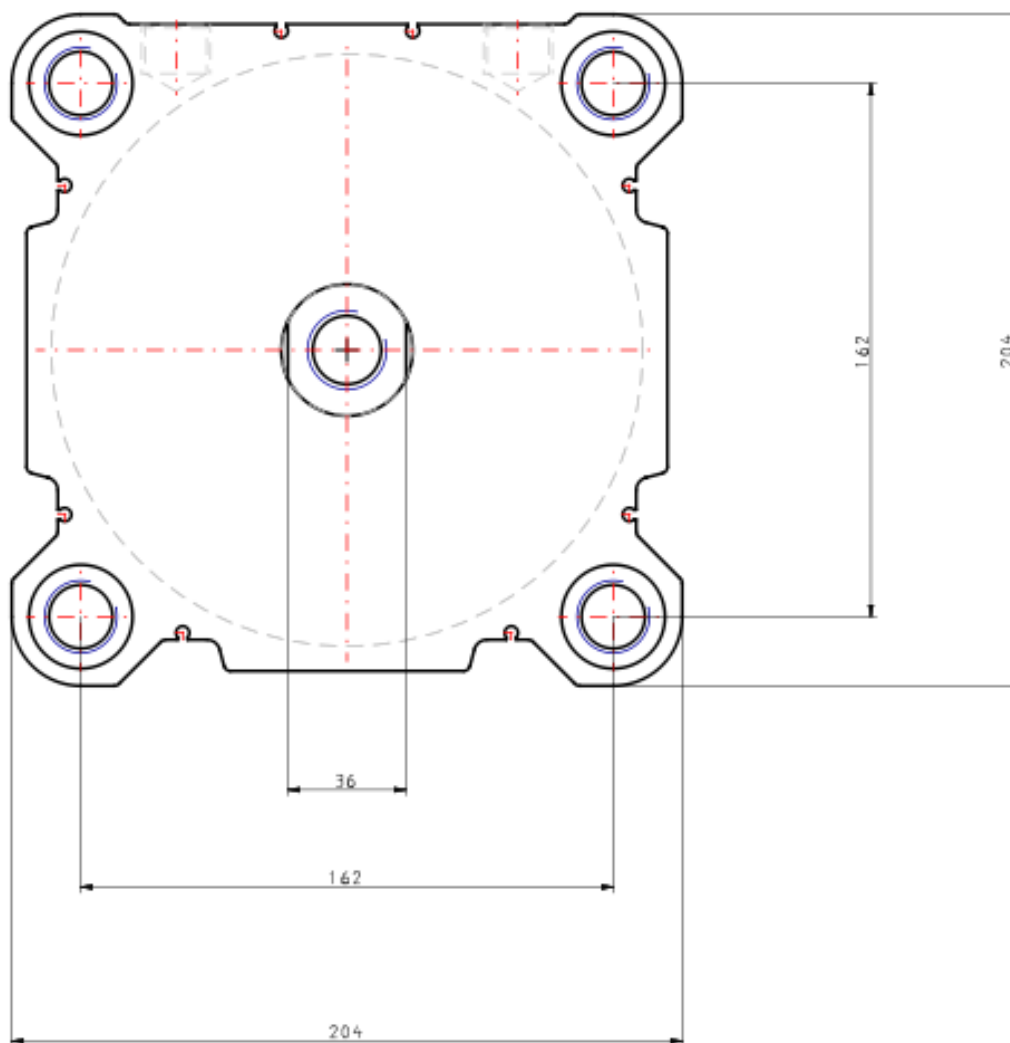
Double-acting, single-rod cylinder

Standard specifications

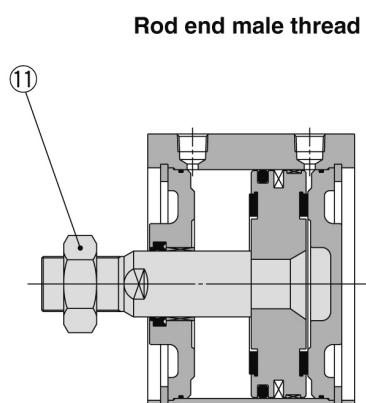
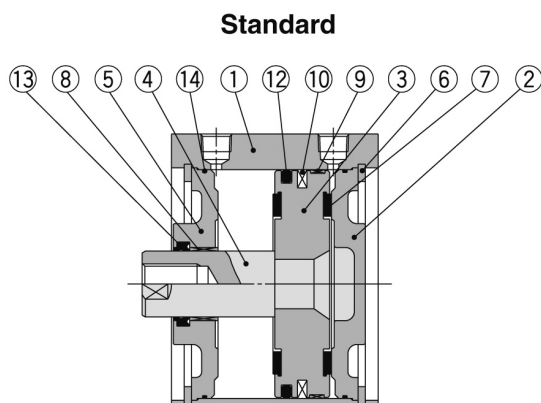
Magnet	None
Bore Size	Ø180 mm
Port Thread Type	Rc
Stroke	300
Body Option	Standard (Rod End Female Thread)
Auto Switch	No Switch
Lead Wire or Prewired Connector	0.5 m or None in the Case of No Switch
Number	2 pcs.
Rod End Options	None
Fluororubber Seal	None
Pressure medium	Compressed air
Maximum temperature of pressure medium	70 °C
Minimum temperature of pressure medium	-10 °C
Maximum operating pressure	0.7 MPa
Minimum operating pressure	0.05 MPa
Proof pressure	1.05 Mpa
Maximum ambient temperature	70 °C
Minimum ambient temperature	-10 °C

Number of pneumatic connections	2 pcs.
Pneumatic input connection	Rc 1/2
Mode of operation of drive	Double acting
Theoretical cylinder force, advance stroke (at 0.5 MPa)	12,095 N
Theoretical cylinder force, return stroke (at 0.5 MPa)	12,724 N
Maximum piston speed	400 mm/s
Piston rod end	Male thread
Geometric form of the piston rod	Single rod
Male thread of rod end	M36 x 1.5
Female thread of rod end	M24 x 3
Minimum piston speed	20 mm/s
Weight	23.300 Kg

Dimensions



Constructions



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)

Additional information

Catalogue

[CQ2-Z-D_EU.pdf](#)