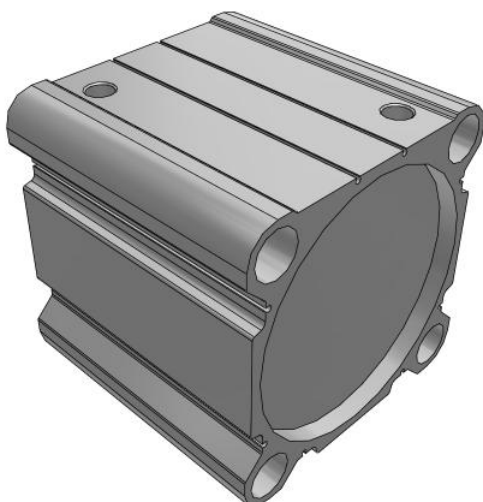




C(D)Q2, Compact Cylinder, Double Acting, Single Rod, Large Bore w/Auto Switch Mounting Groove

CDQ2B180-100DCZ

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.



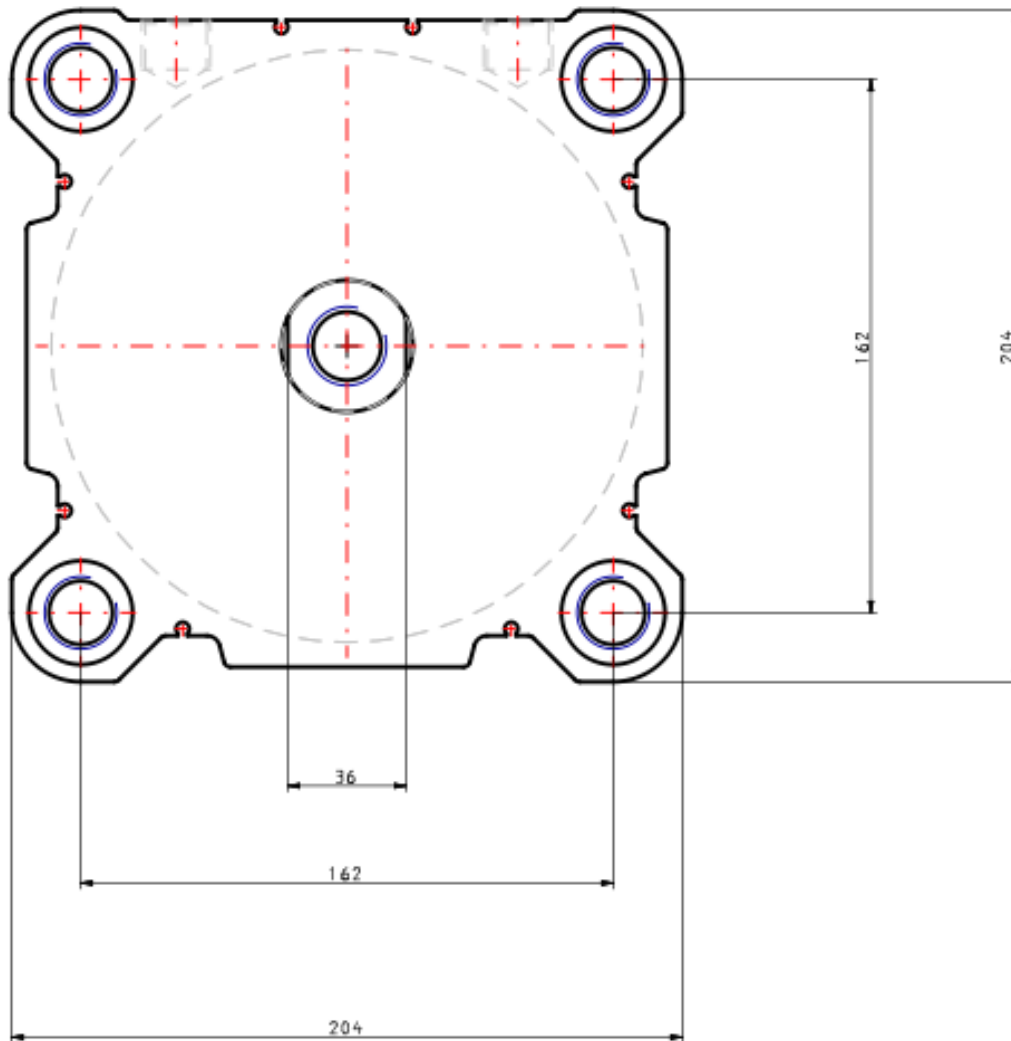
Double-acting, single-rod cylinder

Standard specifications

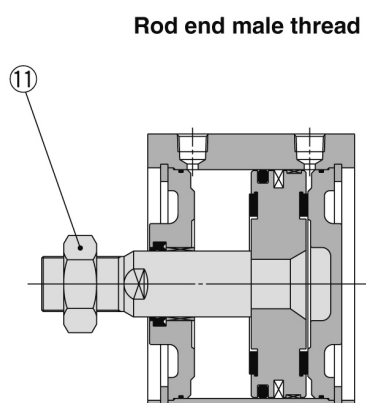
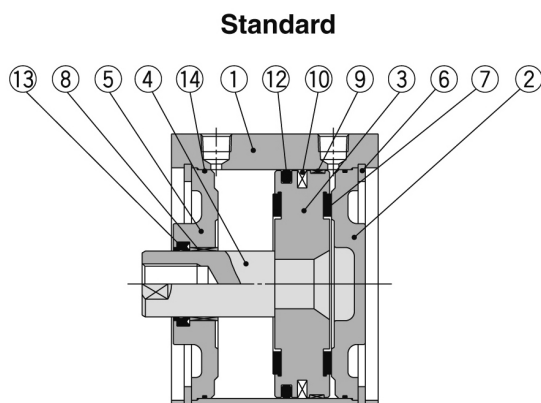
Magnet	D (Built-in)
Bore Size	Ø180 mm
Port Thread	Rc
Stroke	100
Body Option	Standard (Rod End Female Thread)
Auto Switch	No Switch
Lead Wire or Pre-wired Connector	0.5 m (Or None in the Case of No Switch)
Number	2 pcs.
Rod End Options	None
Fluororubber Seal	None
Pressure medium	Compressed air
Maximum temperature of pressure medium with magnet	60 °C
Minimum temperature of pressure medium with magnet	-10 °C
Maximum operating pressure	0.7 MPa
Minimum operating pressure	0.05 MPa
Proof pressure	1.05 Mpa
Maximum ambient temperature with magnet	60 °C
Minimum ambient temperature with magnet	-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)	12,724 N
Theoretical cylinder force, return stroke (at 0.5 MPa)	12,095 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

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
Operation manuals	OM_CQ2x_OM0002MEN.pdf