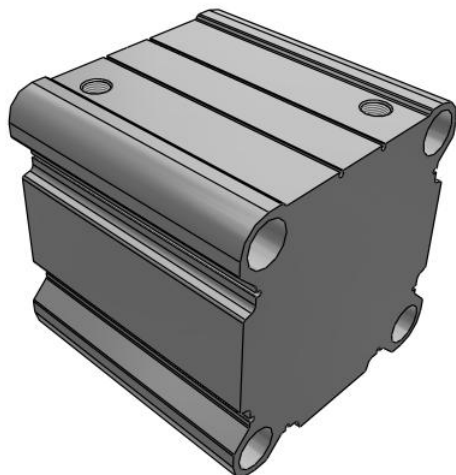




C(D)Q2, Compact Cylinder, Double Acting, Single Rod, Large Bore w/Auto Switch Mounting Groove CQ2B180TF-100DCMZ

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

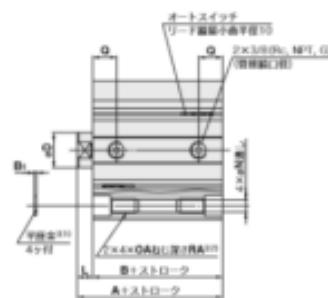
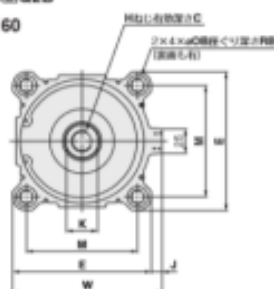
Magnet	None
Bore Size	Ø180 mm
Port Thread	TF (G)
Stroke	100
Body Option	M (Rod End Male Thread)
Auto Switch	No Switch
Lead Wire or Pre-wired Connector	0.5 m (Or None in the Case of No Switch)
Number	2 pcs.
Rod End Options	None
Fluororubber Seal	None
Pressure medium	Compressed air
Maximum temperature of pressure medium	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	G 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	15.676 Kg

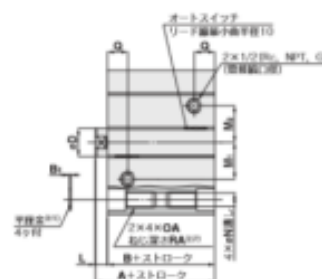
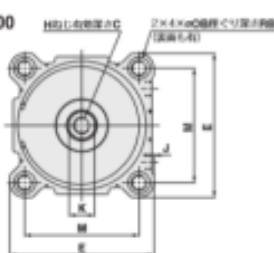
Dimensions

通し穴／C型Q2B

ø125～ø160



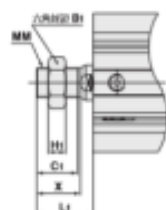
ø180, ø200



シリーズ内径	標準ストローク範囲	A	B	C	D	E	H	J	K	L	M	N	OA	OB	Q	RA	RB	W	
125	10, 20, 30, 40, 50	99.6	57.5	30	36	140	M22×2.5	11	32	16	11.4	—	37.5	M14×2	21	24.5	25	18.4	15.3
140	10, 20, 30, 40, 50	122.0	72.5	30	36	154	M22×2.5	10	32	16	12.0	—	37.5	M14×2	21	24.5	25	18.4	16.0
160	75, 100, 125, 150	136.0	112.5	33	40	174	M24×3	10	36	17	14.4	—	34.5	M16×2	24	27.7	26	21.5	16.0
180	175, 200, 250, 300	152.0	133	33	40	204	M24×3	3	36	17	16.2	52	52	19	M22×2.5	31.5	29	30	20
200	—	174.0	156	33	40	224	M24×3	7	36	17	16.2	62	62	19	M22×2.5	31.5	30	30	20

注1) 通し穴でシリングも取付ける場合は、外筒の厚みを必ずご使用ください。
注2) ø125～ø160の10ストローク以下およびø180, ø200の20ストローク以下の場合は、OAに差し替えます。

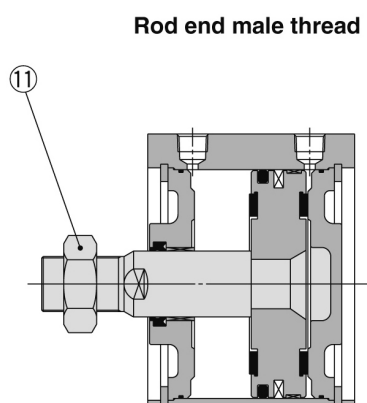
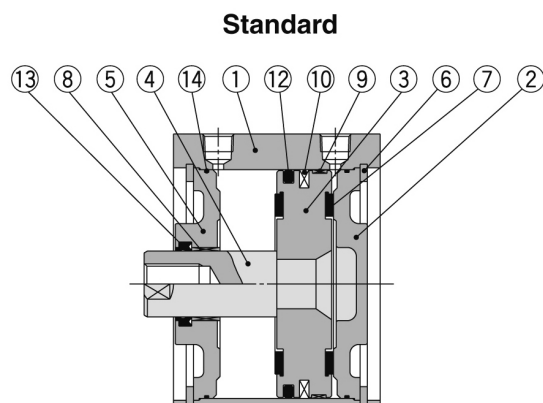
ロッド先端ねじ



シリーズ内径 (mm)	B1	C1	H1	L1	MM	X
125	40	42	10	50	M20×1.5	45
140	40	42	10	50	M20×1.5	45
160	55	47	21	64	M20×1.5	50
180	55	47	21	64	M20×1.5	50
200	55	47	21	64	M20×1.5	50

※ロッド先端ナットの取付には2P, 2P

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](#)