



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

CQ2B180TF-200DCZ

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

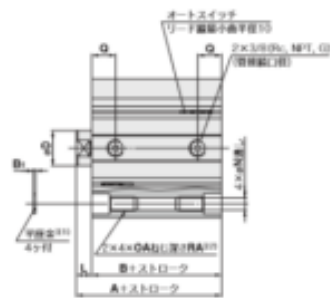
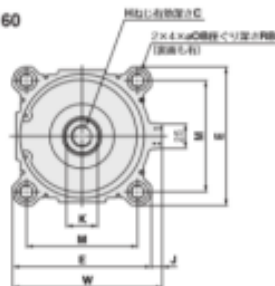
Magnet	None
Bore Size	Ø180 mm
Port Thread	TF (G)
Stroke	200
Body Option	Standard (Rod End Female Thread)
Auto Switch	No Switch
Lead Wire or Pre-wired Connector	0.5 m (Or None in the Case of No Switch)
Number	2 pcs.
Rod End Options	None
Fluororubber Seal	None
Pressure medium	Compressed air
Maximum temperature of pressure medium	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	19.500 Kg

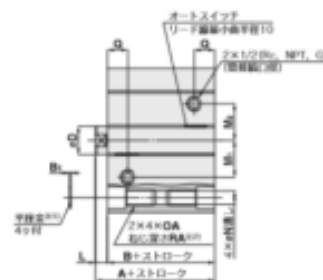
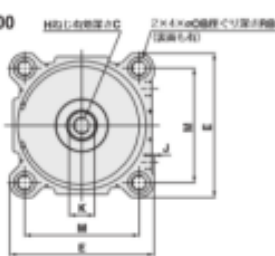
Dimensions

通し穴/C型Q2B

ø125~ø160



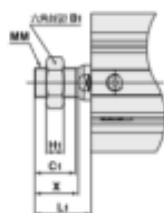
ø180, ø200



シリーズ内径 (mm)	標準ストローク範囲	A	B	C	D	E	H	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
125	10, 20, 30, 40, 50	99.6	37.5	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	99.6	37.5	30	36	150	M22×2.5	10	32	16	12.6	—	37.5	M14×2	21	24.5	25	18.4	15.3	—	—
160	75, 100, 125, 150	109.6	41.2	33	40	170	M24×3	10	36	17	14.4	—	34.5	M16×2	24	27.7	28	21	18	—	—
180	175, 200, 250, 300	119.6	43	33	40	200	M24×3	3	36	17	16.2	52	52	19	M22×2.5	31.5	29	30	20	—	—
200	—	129.6	43	33	40	220	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、外筒の厚さ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、OAに差し替えます。

ロッド先端おねじ

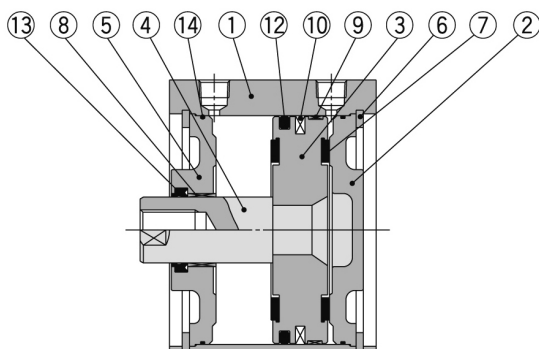


シリーズ内径 (mm)	B ₁	C ₁	H ₁	L ₁	MM	X
125	40	42	10	50	M20×1.5	45
140	40	42	10	50	M20×1.5	45
160	55	47	21	64	M20×1.5	50
180	55	47	21	64	M20×1.5	50
200	55	47	21	64	M20×1.5	50

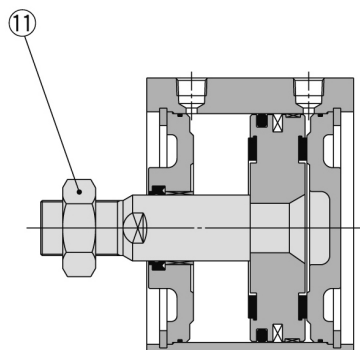
※ロッド先端ナットの取付位置は2P, 2B

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)

Additional information

Catalogue	CQ2-Z-D_EU.pdf
Operation manuals	OM_CQ2x_OM0002MEN.pdf