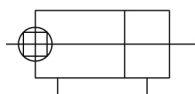


C(D)Q2KW, Compact Cylinder, Double Acting, Double Rod, Non- rotating w/Auto Switch Mounting Groove CQ2KWB20-50DM

Datasheet

General series information

- Double acting, double rod, non-rotating compact cylinder
- Bore sizes (mm): 12, 16, 20, 25, 32, 40, 50, 63
- Standard stroke range (mm): 5 to 100
- Port threads: M (12 to 25 bore); Rc, NPT or G (32 to 63 bore)
- Can mount small auto switches on 4 surfaces.



Double-acting cylinder with double piston rod

Standard specifications

Magnet	None
Mounting	B (Through Hole [Standard; 12 through 63 Bore])
Bore Size	Ø20 mm
Port Thread	Rc: 32-100 Bore; M Thread 12 to 25 Bore
Stroke	50 mm
Body Option	M (Rod End Male Thread)
Auto Switch Groove	None (for 12-25 Bore w/o Magnet)
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
Pressure medium	Compressed air
Maximum temperature of pressure medium	70 °C
Minimum temperature of pressure medium	-10 °C [without condensation]
Maximum operating pressure	1.0 MPa
Minimum operating pressure	0,05 Mpa
Proof pressure	1.5 MPa
Maximum ambient temperature	70 °C

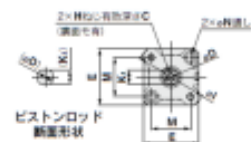
Minimum ambient temperature	-10 °C [without condensation]
Number of pneumatic connections	2 pcs.
Pneumatic input connection	M5
Mode of operation of drive	Double acting
Theoretical cylinder force, advance stroke (at 0.5 MPa)	118 N
Theoretical cylinder force, return stroke (at 0.5 MPa)	118 N
Maximum piston speed	500 mm/s
Type of Stroke end	Double rod
Male thread of rod end	M8 x 1.25
Female thread of rod end	M5 x 0.8
Minimum piston speed	50 mm/s

Dimensions

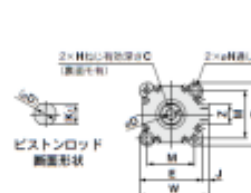
φ12~φ32 オートスイッチなし

標準形(通し穴タイプ)/CQ2KWB

φ12~φ25

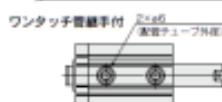
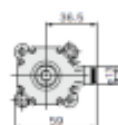


φ32



ロッド先端ねじ

ワンタッチ管継手内蔵形/φ32



ワンタッチ管継手付 φ=φG 配管チューブ外径

φ12, φ16の場合



φ20, φ25の場合



ロッド先端ねじの場合 (mm)

チューブ外径 (mm)	10~12	16	20	25	32
A	5~30	5~30	5~30	5~50	5~50
B	20.7	20.7	20.7	20.7	20.7
C	8	8	8	12	12
D	9	9	9	15	15
E	4	4	4	5	5

チューブ外径 (mm)

チューブ外径 (mm)	L	HM	X
12	14	M5×0.8	10.5
16	15.5	M6×1.0	12
20	15.5	M6×1.25	14
25	22.5	M10×1.25	17.5
32	28.5	M14×1.5	23.5

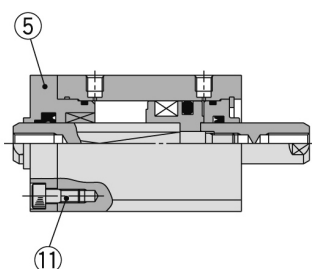
※ワンタッチ管継手内蔵形の場合φ32のみストロークは10ストロークの外形寸法と同一寸法になります。

標準形

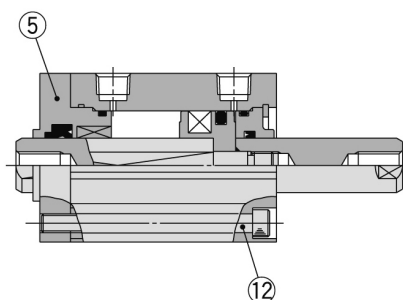
チューブ内径 (mm)	ストローク範囲 (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	Thd	W	Z
12	5~30	37.2	30.2	8	8	25	10	1.5	M5×0.5	32	—	5.2	5	3.5	15.5	3.5	M5×0.8	15	15	—
16	5~30	38	31	8	8	29	10	1.5	M6×0.7	38	—	6	6	3.5	20	3.5	M5×0.8	15	20	—
20	5~50	43	34	7	10	36	8	2	M5×0.8	47	—	8	8	4.5	25.5	5.5	M5×0.8	16	12	—
25	5~50	47	37	12	12	40	9	2	M6×1.0	52	—	10	10	5	28	5.5	M5×0.8	17	15	—
32	5	53.5	38.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10~50	—	—	—	13	16	45	10	2	M6×1.25	—	—	4.5	14	14	7	34	5.5	—	—	—
75, 100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Constructions

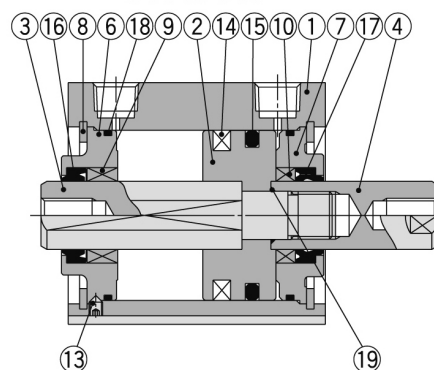
ø12 to ø25



ø32



ø40 to ø63



Component Parts

No.	Description	Material	Note
1	Cylinder tube	Aluminum alloy	Hard anodised
2	Piston	Aluminum alloy	Chromated
3	Piston rod A	Stainless steel	ø12 to ø25
		Carbon steel	ø32 to ø63, Hard chrome plated
4	Piston rod B	Stainless steel	ø12 to ø25
		Carbon steel	ø32 to ø63, Hard chrome plated
5	Rod cover	Brass	ø12, Electroless nickel plated
		Aluminum alloy	ø16 to ø32, Anodised
6	Collar for non-rotating	Aluminum alloy	ø40 to ø63, Anodised
7	Collar	Aluminum alloy	ø12 to ø40, Anodised
		Aluminum alloy casted	ø50 to ø63, Chromated, Painted
8	Retaining ring	Carbon tool steel	Phosphate coated
9	Bushing for non-rotating	Oil-impregnated sintered alloy	ø16 to ø63
10	Bushing	Bearing alloy	ø50, ø63
11	Hexagon socket head cap screw	Alloy steel	ø12 to ø25, Nickel plated
12	Hexagon socket head cap screw	Alloy steel	ø32, Nickel plated
13	Hexagon socket head set screw	Alloy steel	ø40 to ø63, Nickel plated
14	Magnet	—	

No.	Description	Material	Note
15	Piston seal	NBR	
16	Rod seal for non-rotating	NBR	
17	Rod seal	NBR	
18	Gasket	NBR	
19	Piston gasket	NBR	ø32 to ø63

Replacement Parts/Seal Kit

Bore size (mm)	Kit no.	Contents
12	CQ2KWB12-PS	Kits include items 15, 16, 17, 18 from the table.
16	CQ2KWB16-PS	
20	CQ2KWB20-PS	
25	CQ2KWB25-PS	
32	CQ2KWB32-PS	
40	CQ2KWB40-PS	
50	CQ2KWB50-PS	
63	CQ2KWB63-PS	

* Seal kit includes 15, 16, 17, 18. 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