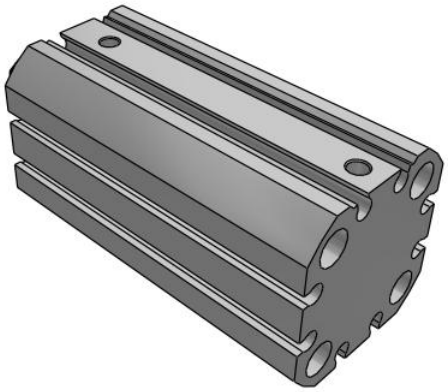


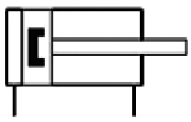
C(D)55, Compact Cylinder ISO Standard (ISO 21287)

CD55B25-40M

Datasheet

General series information

- Conforms with the ISO 21287 standard.
- Bore sizes of 20, 25, 32, 40, 50, 63, 80 & 100 mm.
- Large stroke range from 5 mm up to 150 mm.
- Construction is similar to the current CQ2 lateral load resistant specification.
- Snap ring construction allows easy and quicker maintenance.
- Auto switches can be mounted on any of the four sides of the cylinder tube.



Double-acting, single-rod cylinder

Standard specifications

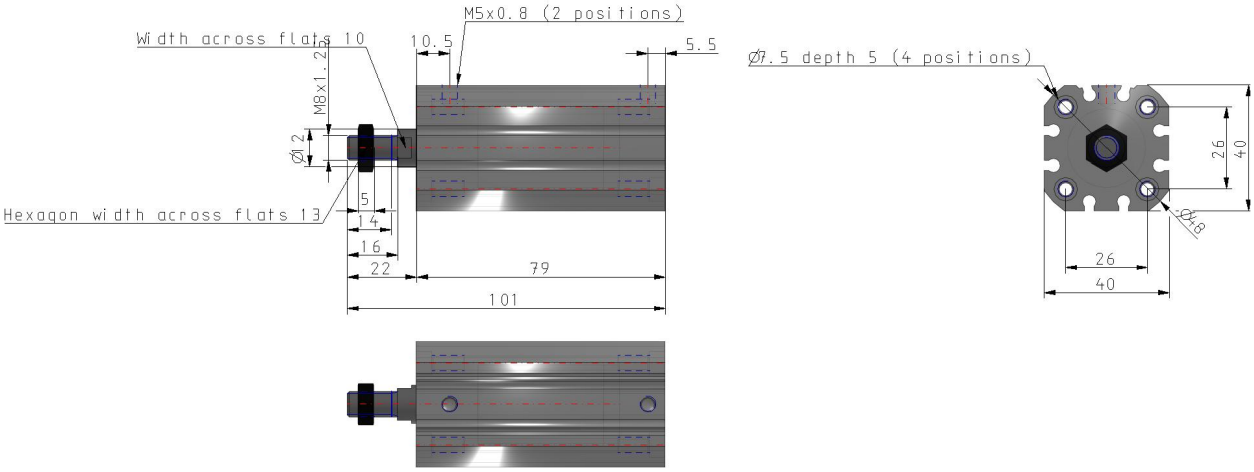
Mounting Style	B (Standard)
Bore Size	25mm
Stroke	40
Rod End Thread	M (Rod End Male Thread)
Lead Wire or Prewired Connector	0.5m [Or None in the Case of No Switch]
Number	2 pcs. [Or None in the Case of No Switch]
Built-in Magnet	D (With Magnet)
Rod End Options	None
Made of Stainless Steel	None
Auto Switch	No Switch
Pressure medium	Air
Maximum temperature of pressure medium	70 °C
Maximum temperature of pressure medium with magnet	60 °C
Minimum temperature of pressure medium	-10 ºC (No freezing)
Minimum temperature of pressure medium with magnet	-10 ºC (No freezing)
Maximum operating pressure	1.0 MPa
Minimum operating pressure	0.05 MPa

SMC United Kingdom +34 945184126 sales@smc.uk

Proof pressure	1.5 MPa
Maximum ambient temperature	70 °C
Maximum ambient temperature with magnet	60 °C
Minimum ambient temperature	-10 ºC (No freezing)
Minimum ambient temperature with magnet	-10 ºC (No freezing)
Number of pneumatic connections	2 pcs.
Pneumatic input connection	M5
Pneumatic exhaust connection	M5
Mode of operation of drive	Double acting
Theoretical cylinder force, advance stroke (at 0.5 MPa)	245 N
Theoretical cylinder force, return stroke (at 0.5 MPa)	189 N
Maximum piston speed	500 mm/s
Type of cushioning	Rubber bumper on both end
Geometric form of the piston rod	Single rod
Male thread of rod end	M8 x 1.25
Female thread of rod end	M6 x 1.0
Weight	0.263 Kg

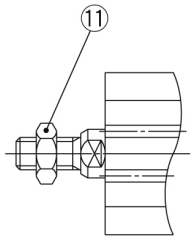
SMC United Kingdom +34 945184126 sales@smc.uk

Dimensions



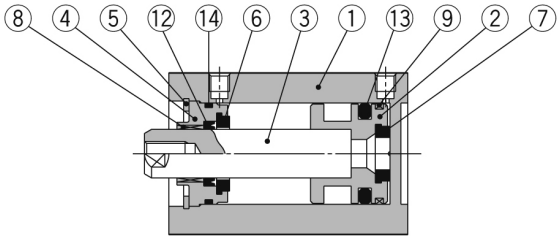
SMC United Kingdom +34 945184126 sales@smc.uk

Constructions

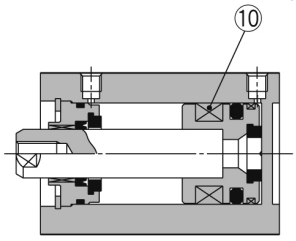


M: Rod end male thread

ø20, ø25



With auto switch (Built-in magnet)



Component Parts

No.	Description	Material	Note
1	**Cylinder tube**	Aluminum alloy	Hard anodised
2	**Piston**	Aluminum alloy	Chromated
3	**Piston rod**	Stainless steel	ø20, ø25
		Carbon steel	ø32 to ø100 Hard chrome plated
4	**Collar**	Aluminum alloy	ø20 to ø40 Anodized
		Aluminum alloy casted	ø50 to ø100 Painted after chromated
5	**Retaining ring**	Carbon tool steel	Phosphate coated
6	**Bumper A**	Urethane	
7	**Bumper B**	Urethane	
8	**Bushing**	Bearing alloy	
9	**Wear ring**	Resin	ø20 to ø63
10	**Magnet**	—	
11	**Rod end nut**	Carbon steel	Nickel plated
12	**Rod seal**	NBR	
13	**Piston seal**	NBR	
14	**Tube gasket**	NBR	

Replacement Parts/Seal Kit

Bore size (mm)	Kit no.	Contents
20	CQ2B20-PS	Set of nos. at left ⑫, ⑬, ⑭
25	CQ2B25-PS	
32	CQ2B32-PS	
40	CQ2B40-PS	
50	CQ2B50-PS	
63	CQ2B63-PS	
80	CQ2B80-PS	
100	CQ2B100-PS	

∗ Seal kit includes ⑫, ⑬, ⑭. Order the seal kit, based on each bore size.

SMC United Kingdom +34 945184126 sales@smc.uk

Additional information

Catalogue	C55-B_EU.pdf
Operation manuals	c55_c55-om00031.pdf

SMC United Kingdom +34 945184126 sales@smc.uk