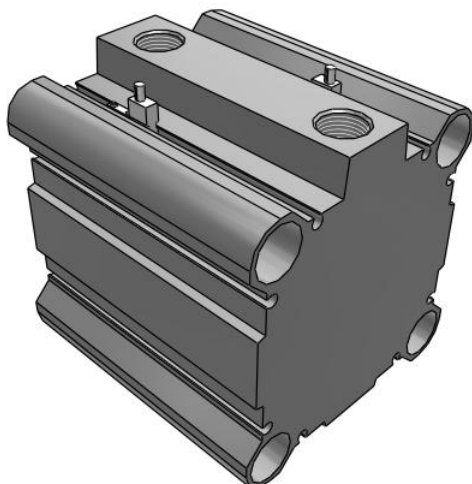




C(D)Q2, Compact Cylinder, Double Acting, Single Rod w/Auto Switch Mounting Groove

CDQ2B80-50DZ-M9PV

Datasheet

General series information

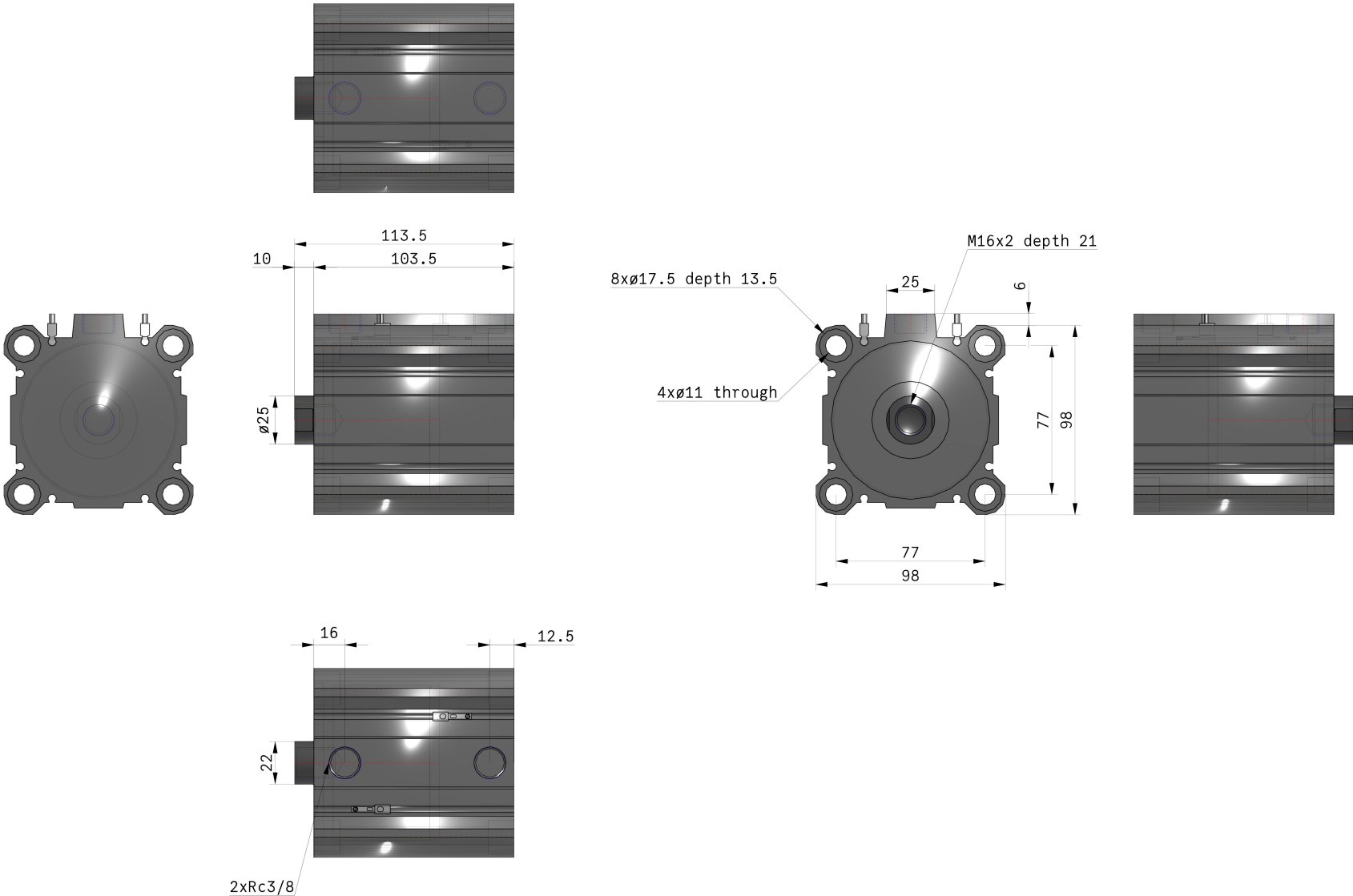
- Double acting, single rod, compact cylinder
- Bore sizes (mm): 12, 16, 20, 25, 32, 40, 50, 63, 80, 100
- Standard stroke range (mm): 5 to 100
- Port threads: M (12 to 25 bore); Rc, NPT or G (32 to 100 bore)
- Can mount small auto switches on 4 surfaces.



Standard specifications

Magnet	D (Built-in)
Mounting	B (Through Hole [Standard])
Type	Standard
Bore Size	Ø80 mm
Port Thread	Rc (or M Thread for 16 and 20 Bore or 32 stroke 5 mm)
Stroke	50
Body Option	Standard (Rod End Female Thread)
Auto Switch Groove	Z [Auto Switch Mounting Grooves]
Mounting Bolt	None
Rod End Bracket	None
Auto Switch	M9PV--Solid State Switch, Gen. Purpose, 3 Wire PNP, Vertical
Lead Wire or Pre-wired Connector	0.5 m (Or None in the Case of No Switch)
Number	2 pcs.
Rod End Options	None
Temperature Resistance	None
Low Speed	None
Made of Stainless Steel	None

Fluororubber Seal	None
Pressure medium	Compressed air
Maximum temperature of pressure medium	60 °C
Minimum temperature of pressure medium	-10 °C
Maximum operating pressure	1.0 MPa
Minimum operating pressure	0,05 Mpa
Proof pressure	1.5 MPa
Maximum ambient temperature	60 °C
Minimum ambient temperature	-10 °C
Number of pneumatic connections	2 pcs.
Pneumatic input connection	Rc 3/8
Mode of operation of drive	Double acting
Theoretical cylinder force, advance stroke (at 0.5 MPa)	2510N
Theoretical cylinder force, return stroke (at 0.5 MPa)	2270 N
Maximum piston speed	500 mm/s
Geometric form of the piston rod	Single rod
Male thread of rod end	M22 x 1.5
Female thread of rod end	M16 x 2.0
Minimum piston speed	50 mm/s



Constructions



Component Parts

No.	Description	Material	Note
1	Cylinder tube	Aluminum alloy	Hard anodised
2	Piston	Aluminum alloy	Chromated
3	Piston rod	Stainless steel	ø12 to ø25
		Carbon steel	ø32 to ø100, Hard chrome plated
4	Collar	Aluminum alloy	ø12 to ø40, Anodised
		Aluminum alloy casted	ø50 to ø100, Chromated, Painted
5	Retaining ring	Carbon tool steel	Phosphate coated
6	Bushing	Bearing alloy	For ø50 or more only
7	Magnet	—	
8	Piston seal	NBR	
9	Rod seal	NBR	
10	Gasket	NBR	

Additional information

Catalogue

[CQ2-Z-C_EU.pdf](#)

Operation manuals

[OM_CQ2x_OM0002MEN.pdf](#)