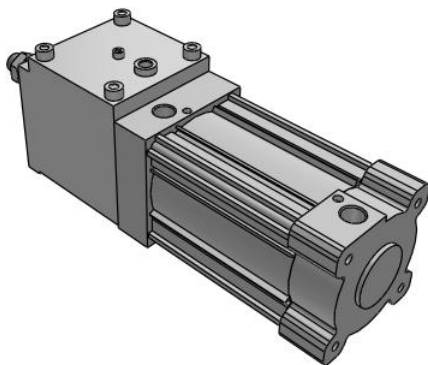


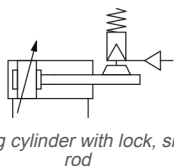


CP96N(D), ISO 15552 Cylinder, Double Acting, Single/Double Rod w/Lock CP96NDB100-100C

Datasheet

General series information

- Bore sizes (mm): 32, 40, 50, 63, 80, 100.
- Maximum stroke 2000 mm.
- Auto switch capable.

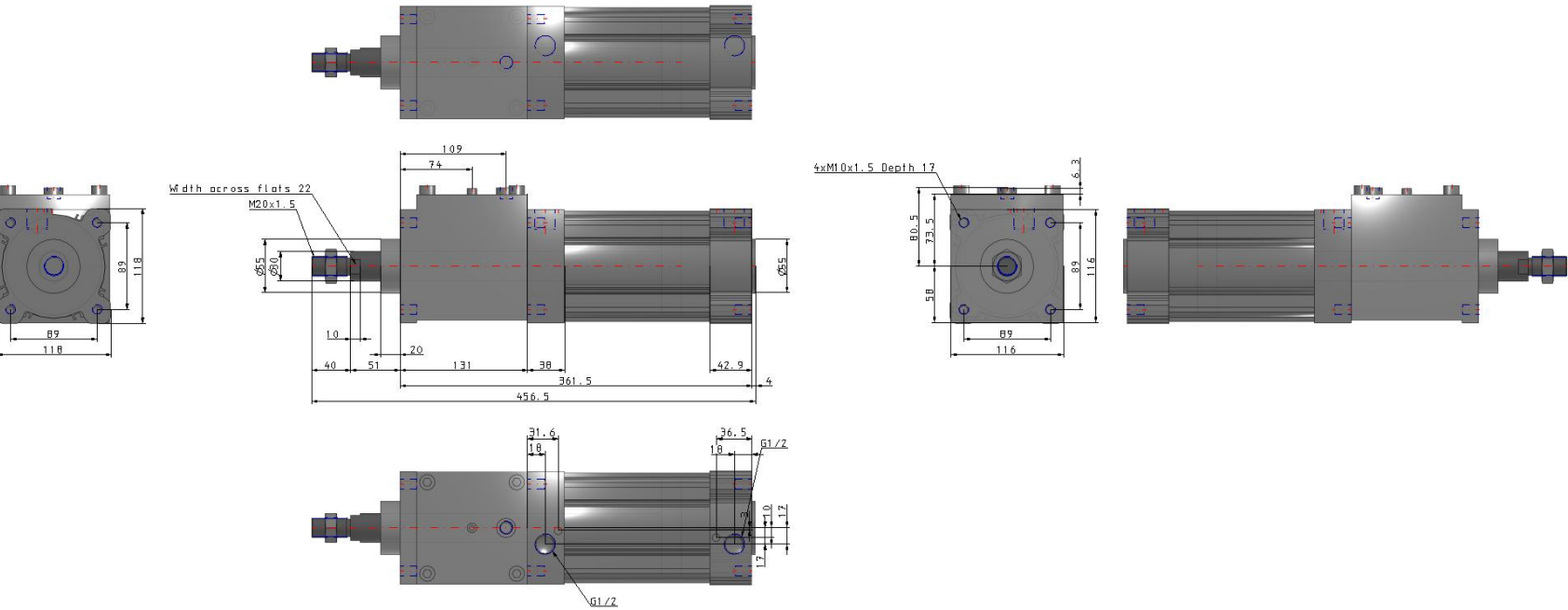


Double-acting cylinder with lock, single piston rod

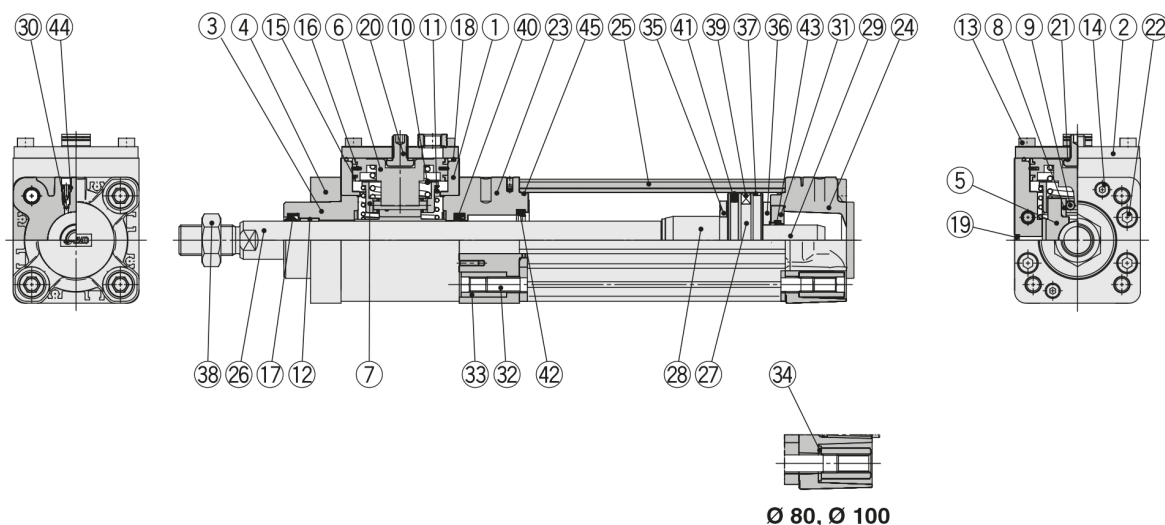
Standard specifications

Magnet	D (Built-in Magnet)
Mounting	B (Basic)
Bore Size	100 mm
Stroke	100
Rod Boot	w/o Rod Boot
Rod	Single Rod
Pivot Bracket	None
Rod End Bracket	None
Auto Switch	No Switch
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)
Rod End Options	None
Maximum operating pressure	1.0 MPa
Proof pressure	1.5 MPa
Theoretical cylinder force, advance stroke (at 0.5 MPa)	3927 N
Theoretical cylinder force, return stroke (at 0.5 MPa)	3574 N
Type of cushioning	Air cushion on both ends + bumper cushion
Port size	G1/2
Lubrication	Not required (non-lube)
Fluid	Air

Ambient and fluid temperature	-10 - 70 °C
Stroke length tolerance	Up to 500 st: +2.0 0 , 501 to 1000 st: +2.4 0 , 1001 to 1500 st: +2.8 0 , 1501 to 2000 st: +3.2 0
Piston speed	50 - 1000 mm/s
Action	Double Acting
Locking action	Exhaust locking
Locking direction	Both directions
Stopping accuracy	±1.0 mm
Lock unit: max.operating pressure	1.0 MPa
Lock unit: min.operating pressure	0.3 MPa
Holding force (max.static load)	6080 N
Weight	11.180 Kg



Constructions



No.	Description	Material	Qty.	Note
1	Brake unit	Aluminium alloy	1	Hard anodised
2	Cap	Rolled steel	1	Zinc chromated
3	Collar	Aluminium alloy	1	Chromated
4	Retaining plate	Aluminium alloy	1	Anodised
5	Brake pad	Cast iron	1	
6	Piston A	Aluminium alloy	1	
7	Roller holder	Carbon steel	1	
8	Roller receiver	Stainless steel	2	
9	Needle roller	Carbon steel	2	
10	Piston spring	Spring steel	1	Zinc chromated
11	Roller spring	Spring steel	1	Zinc chromated
12	Bushing	Bearing alloy	1	
13	Hexagon socket head cap screw	Alloy steel	4	
14	Hexagon socket head cap screw	Alloy steel	2	
15	Wear ring A	Resin	2	
16	Piston seal A	NBR	1	
17	Rod seal A	NBR	1	
18	Gasket	NBR	1	
19	Element	Bronze	1	
20	Release bolt	Alloy steel	1	
21	Seal washer	NBR + Stainless steel	1	
22	Hexagon socket head cap screw	Alloy steel	4	
23	Rod cover	Aluminium alloy	1	Anodised
24	Head cover	Aluminium die-cast	1	Chromated
25	Cylinder tube	Aluminium alloy	1	Hard anodised
26	Piston rod	Carbon steel	1	Hard chrome plating
27	Piston B	Aluminium alloy	1	Ø 32 to Ø 63
		Aluminium die-cast	1	Ø 80, Ø 100
28	Cushion ring	Aluminium alloy	1	Anodised
29	Cushion ring B	Aluminium alloy	1	Anodised
30	Cushion valve	Resin	2	
31	Cushion seal holder	Aluminium alloy	1	Anodised

No.	Description	Material	Qty.	Note
32	Tie-rod	Carbon steel	4	Zinc chromated
33	Tie-rod nut	Rolled steel	8	Zinc chromated
34	Flat washer	Steel	8	Ø 80, Ø 100
35	Bumper A	Urethane	1	
36	Bumper B	Urethane	1	
37	Wear ring B	Resin	1	
38	Rod end nut	Carbon steel	1	Zinc chromated
39	Magnet	—	(1)	
40	Rod seal B	NBR	1	
41	Piston seal B	NBR	1	
42	Cushion seal A	Urethane	1	
43	Cushion seal B	Urethane	1	
44	Cushion valve seal	NBR	2	
45	Cylinder tube gasket	NBR	2	

Additional information

Catalogue	CP96N-C96N-A_EU.pdf
Operation manuals	OM_MWB_OM0078Q-EN.pdf OM_CP96N_OM0197QEN.pdf