

CP96N(D), ISO 15552 Cylinder, Double Acting, Single/Double Rod w/Lock CP96NDB100-160CW

Datasheet

General series information

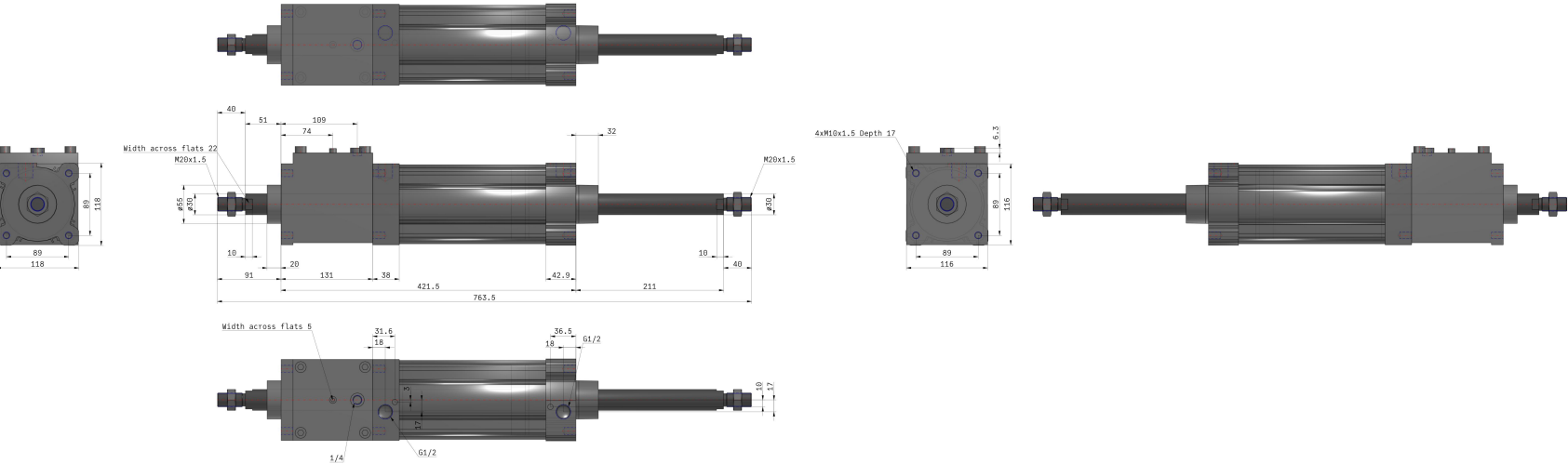
- Bore sizes (mm): 32, 40, 50, 63, 80, 100.
- Maximum stroke 2000 mm.
- Auto switch capable.

Standard specifications

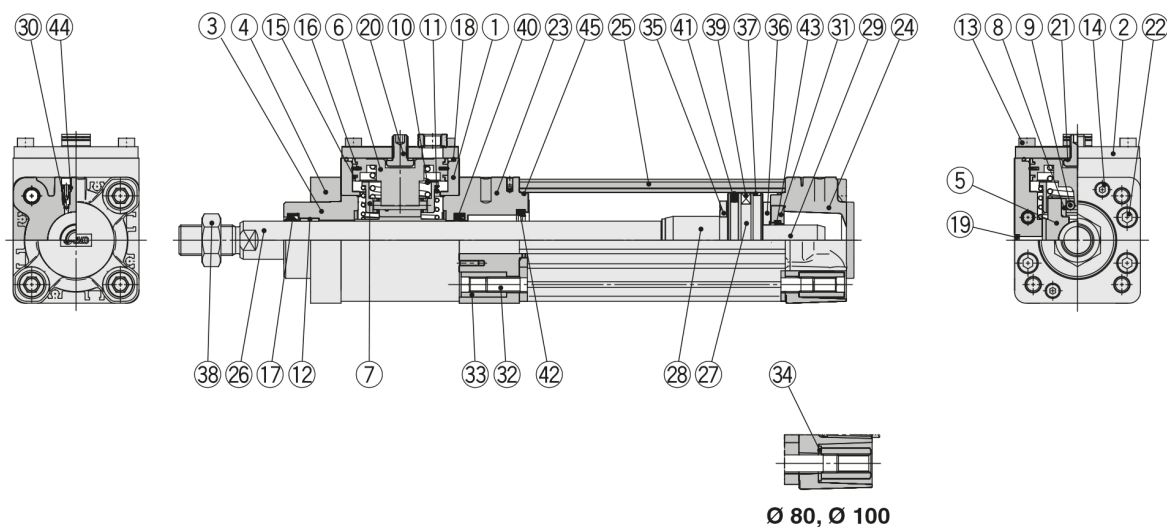
Magnet	D (Built-in Magnet)
Mounting	B (Basic)
Bore Size	100 mm
Stroke	160
Rod Boot	w/o Rod Boot
Rod	W (Double Rod)
Pivot Bracket	None
Rod End Bracket	None
Auto Switch	No Switch
Lead Wire or Pre-wired Connector	0.5 m (Or None in the Case of No Switch)
Number	2 pcs. (Or None in Case of No Switch)
Rod End 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

Dimensions



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](#)