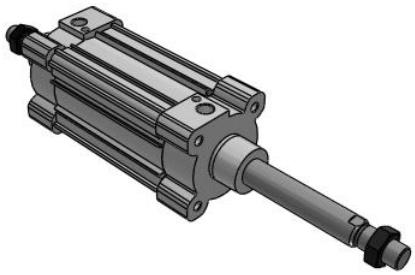


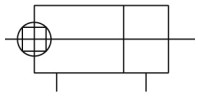
CP96K(D), ISO 15552 Cylinder, Non-rotating Rod Type, Double Acting, Single/Double Rod with Air cushion on both ends and Bumper cushion

CP96KDB80-100CW

Datasheet

General series information

- Double acting, Non-rotating, single or double rod with Air cushion on both ends and Bumper cushion
- Bore sizes (mm): 32, 40, 50, 63, 80, 100
- Standard stroke up to 500mm, maximum stroke 800mm
- Auto switch capable



Double-acting cylinder with double non rotating piston rod

Standard specifications

Magnet	D (Built-in Magnet)
Mounting	B (Basic, w/o Bracket)
Bore Size	Ø80 mm
Stroke	100
Rod	W (Double Rod)
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)
Pressure medium	Compressed air
Maximum temperature of pressure medium	60 ºC
Maximum temperature of pressure medium with magnet	60 ºC
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
Proof pressure	1.5 MPa
Maximum ambient temperature	60 ºC
Maximum ambient temperature with magnet	60 ºC
Minimum ambient temperature	-10 ºC (no freezing)

Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.

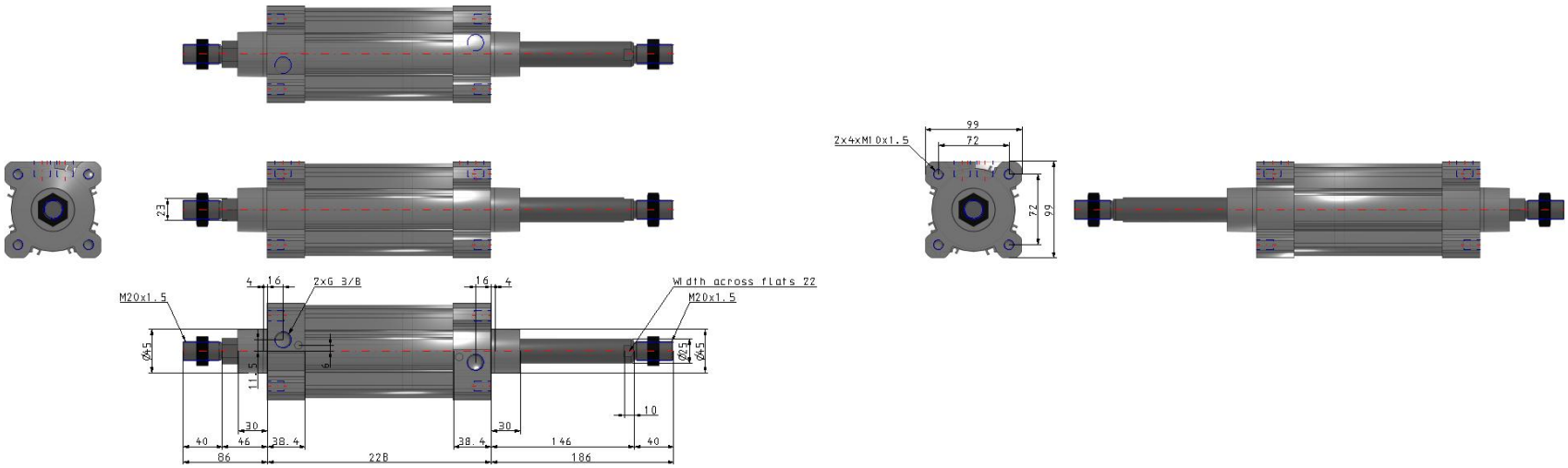
SMC CORPORATION Zuazobidea 14, 01012, Vitoria-Gasteiz, Álava +34 945184100 +34 945184126 www.smc.eu support.marketingeurope@smc.com

Minimum ambient temperature with magnet	-20 ºC (no freezing)
Number of pneumatic connections	2 pcs.
Pneumatic input connection	G 3/8
Pneumatic exhaust connection	G 3/8
Mode of operation of drive	Double acting
Maximum piston speed	1,000 mm/s
Type of cushioning	Air cushion on both ends + Bumper cushion
Piston rod end	Male thread
Male thread of rod end	M20 x 1.5
Minimum piston speed	50 mm/s

Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.

SMC CORPORATION Zuazobidea 14, 01012, Vitoria-Gasteiz, Álava +34 945184100 +34 945184126 www.smc.eu support.marketingeurope@smc.com

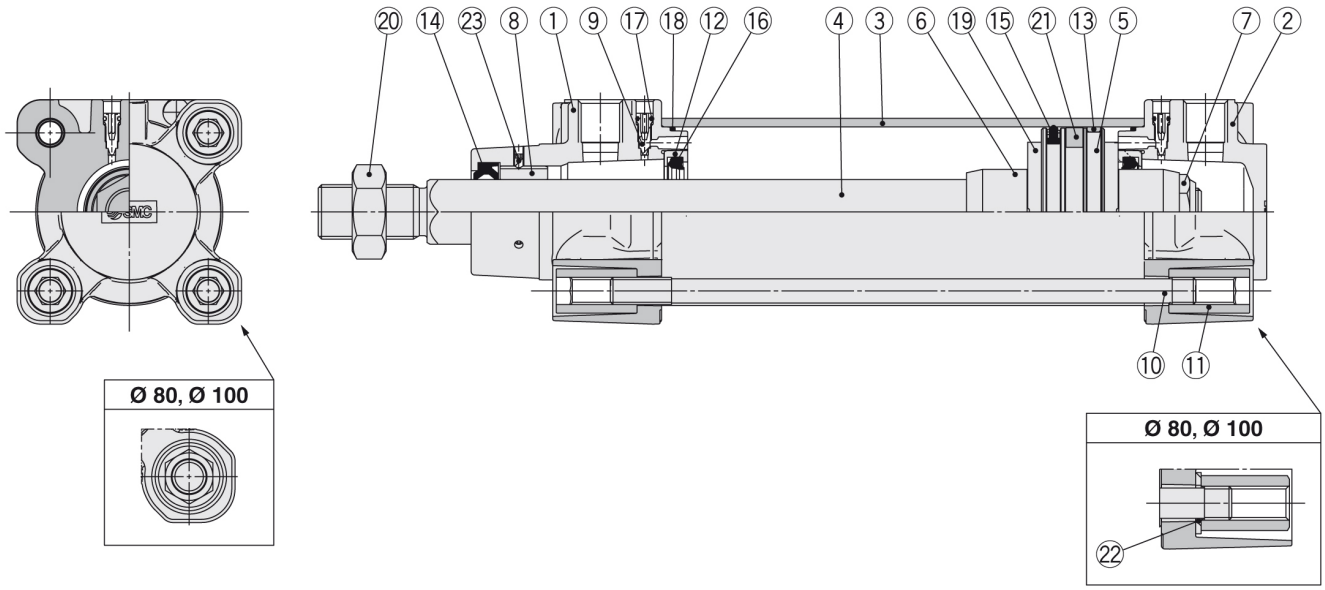
Dimensions



Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.

SMC CORPORATION Zuazobidea 14, 01012, Vitoria-Gasteiz, Álava +34 945184100 +34 945184126 www.smc.eu support.marketingeurope@smc.com

Constructions



Component Parts

No.	Description	Material	Q'ty	Note
1	**Rod cover**	Aluminium die-cast	1	Trivalent chromated
2	**Head cover**	Aluminium die-cast	1	Trivalent chromated
3	**Cylinder tube**	Aluminium alloy	1	Hard anodised
4	**Piston rod**	Stainless steel	1	
5	**Piston**	Aluminium alloy	1	
6	**Cushion ring**	Rolled steel	2	Trivalent zinc chromated
7	**Piston nut**	Rolled steel	1	Trivalent zinc chromated
8	**Non-rotating guide**	Bearing alloy	1	
9	**Cushion valve**	Resin	2	
10	**Tie-rod**	Carbon steel	4	Trivalent zinc chromated
11	**Tie-rod nut**	Rolled steel	8	Trivalent zinc chromated
12	**Cushion seal holder**	Aluminium alloy	2	Anodised
13	**Wear ring**	Resin	1	
14	**Rod seal**	NBR	1	
15	**Piston seal**	NBR	1	
16	**Cushion seal**	Urethane	2	
17	**Cushion valve seal**	NBR	2	
18	**Cylinder tube gasket**	NBR	2	
19	**Bumper**	Urethane	2	
20	**Rod end nut**	Rolled steel	1	Trivalent zinc chromated
21	**Magnet**	—	(1)	
22	**Flat washer**	Steel	8	For Ø 80, Ø 100
23	**Hexagon socket head set screw**	Steel wire	2	Trivalent black zinc chromated

Replacement Parts/Seal Kit (Single rod)

Bore size [mm]	Kit no.	Contents
32	CK95-32	Kits include items ⑬ to ⑯, ⑱.
40	CK95-40	
50	CK95-50	
63	CK95-63	
80	CK95-80	
100	CK96-100	

Seal Kit (Double rod)

Bore size [mm]	Kit no.	Contents
32	CK95W-32	Kits include items ⑭ to ⑯, ⑱.
40	CK95W-40	
50	CK95W-50	
63	CK95W-63	
80	CK95W-80	
100	CK96W-100	

Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.

SMC CORPORATION Zuazobidea 14, 01012, Vitoria-Gasteiz, Álava +34 945184100 +34 945184126 www.smc.eu support.marketingeurope@smc.com

Additional information

Catalogue	CP96-Bb_EU.pdf
Operation manuals	OM_CP96x-C_OM0002QEN.pdf

Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.

SMC CORPORATION Zuazobidea 14, 01012, Vitoria-Gasteiz, Álava +34 945184100 +34 945184126 www.smc.eu support.marketingeurope@smc.com