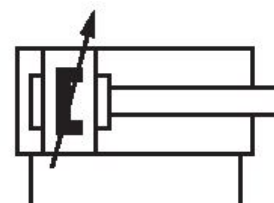


Stainless Steel Round Cylinder, Series CSL-RD

R481624950

General series information Series CSL-RD

- The AVENTICS Series CSL-RD (ISO 6432) cylinder is a stainless-steel round cylinder, configurable in three different designs: standard, hygienic and short. The Series CSL-RD (ISO 6432) has a smooth profile and low surface roughness made of stainless steel, NSF-H1 grease and FDA compliant seals it is suitable for food contact. In addition, the cylinders are certified in accordance with regulation (EC) No 1935/2004.
- Clean and compact design
- The undercut-free scrapers prevent the accumulation of dirt and dead space around the piston rod
- Guaranteed food safety
- Resistant to chemicals
- Offers piston diameters from 16 mm to 63 mm
- Configurations available as single piston rod, elastic/ pre-adjusted/ manual adjusted cushioning, with magnetic detection, ATEX



Technical data

Industry
Industrial

Type
Version: short type

Piston Ø
50 mm

Stroke
500 mm

Functional principle
Double-acting

Cushioning
Pneumatic adjustable cushioning

Magnetic piston
Piston with magnet

Pressure for determining piston forces
6,3 bar

Retracting piston force
1035 N

Extracting piston force
1235 N

Min. ambient temperature
-20 °C

Max. ambient temperature
80 °C

Working pressure min. 1 bar	Stroke max. 1200 mm
Working pressure max 10 bar	Medium Compressed air
Ports G 1/4	Min. medium temperature -20 °C
Piston rod thread M16x1,5	Max. medium temperature 80 °C
Cushioning length 16 mm	Max. particle size 50 µm
Cushioning energy 15 J	Oil content of compressed air min. 0 mg/m ³
Weight 0 mm stroke 2.044 kg	Oil content of compressed air max. 5 mg/m ³
Weight +10 mm stroke 0.04 kg	Clamping piece for magnetic field sensor necessary Clamping piece for magnetic field sensor necessary

Material

Piston rod Stainless Steel	Piston seal Nitrile butadiene rubber
Scraper material Thermoplastic polyurethane (TPU) Ultra-high-molecular-weight polyethylene (UHMW-PE)	Nut for cylinder mounting Stainless Steel
Material, front cover Stainless Steel	Nut for piston rod Stainless Steel
Cylinder tube Stainless Steel	Guide bushing Plastic
End cover Stainless Steel	Part No. R481624950

Technical information

ATEX-certified cylinders with identification II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135°C Db_X can be generated in the Internet configurator.

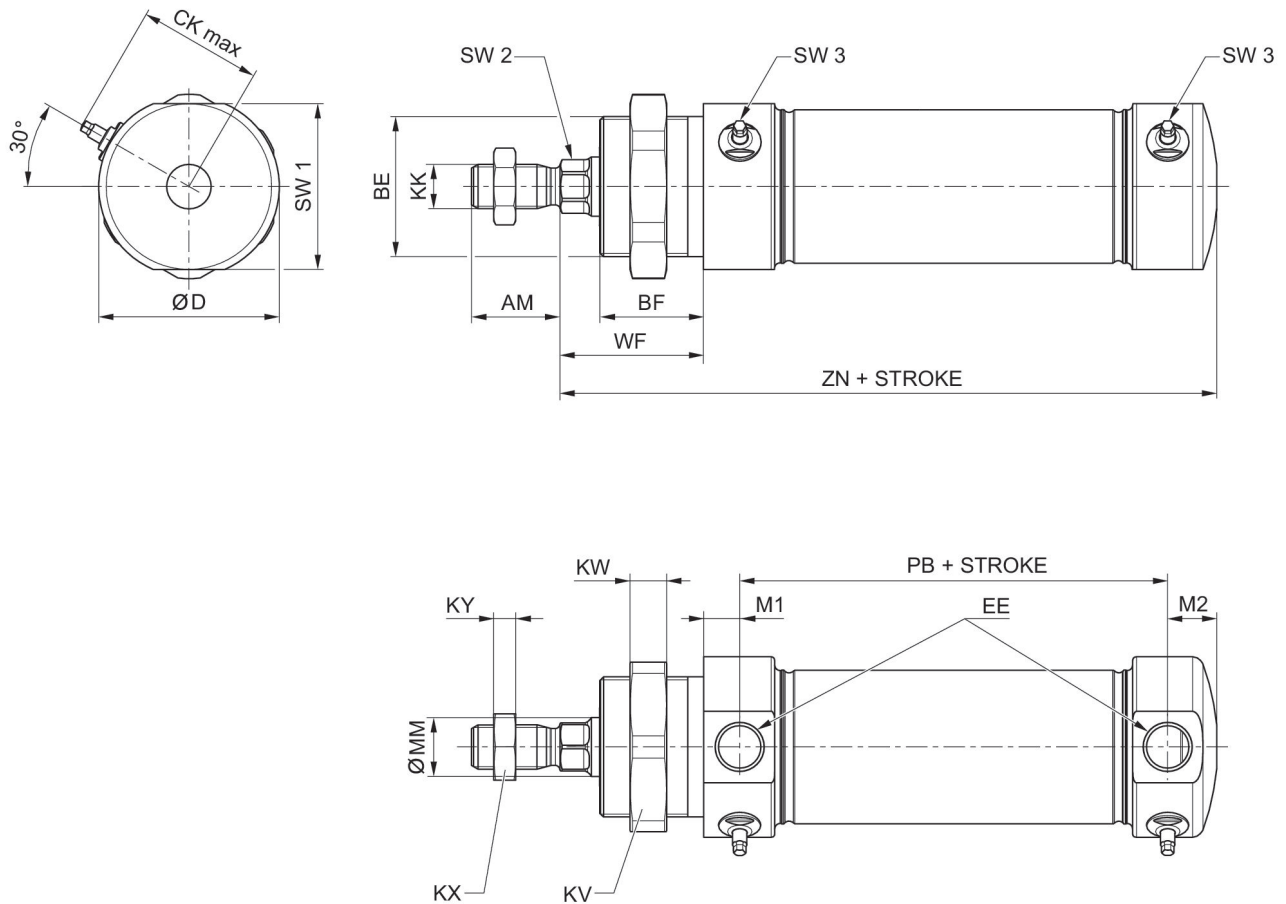
The operating temperature range for ATEX-certified cylinders is -20°C ... 60°C.

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in <https://www.emerson.com/en-us/support>).

Dimensions in mm

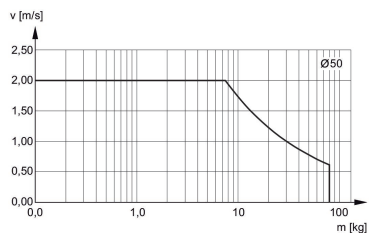


Piston Ø	AM	BE	BF	CK max.	D	EE	KK	KV	KW
32	22	M30x1,5	25	28	38	G 1/8	M10x1,25	36	8
40	24	M38x1,5	28	36,5	49	G 1/4	M12x1,25	46	10
50	32	M45x1,5	32	40,5	57	G 1/4	M16x1,5	55	10
63	32	M45x1,5	32	47	70	G 3/8	M16x1,5	55	10

Piston Ø	KX	KY	M1	M2	MM f8	PB ±1	SW 1	SW 2 h13	SW 3
32	17	5	9,5	14,2	12	46	35	10	3
40	18	6	9,8	13,3	16	66	45	13	3
50	24	8	9,8	12,6	20	68	53	17	3
63	24	8	13	14,5	20	71,5	66	17	3

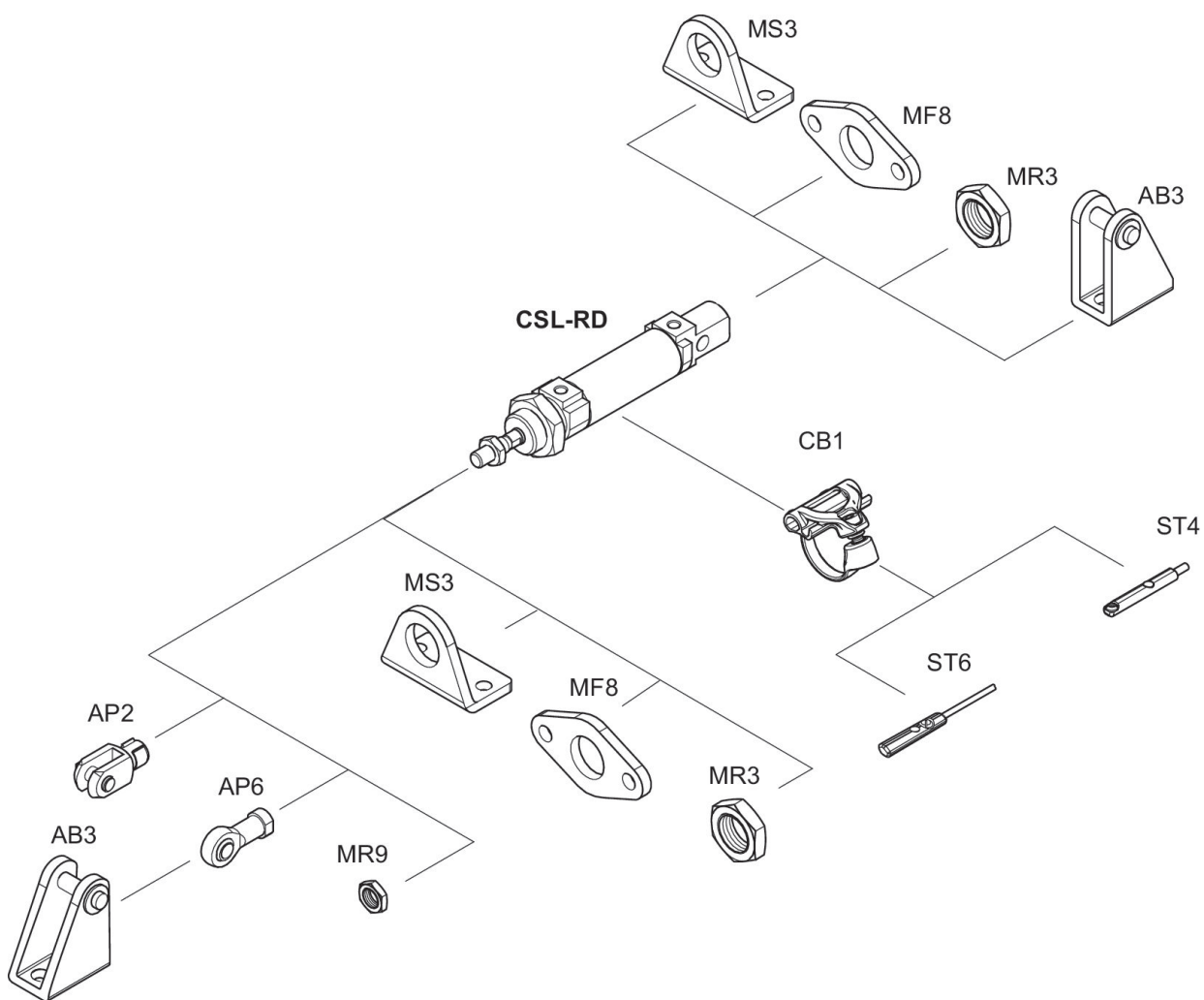
Piston Ø	SW4	WF	ZN
32	24	34	104
40	30	39	128,2
50	34	44	134,5
63	34	44	143,2

Cushioning diagram



v = Piston velocity [m/s] m = Cushionable mass [kg]

Overview drawing



NOTE: This overview drawing is only for orientation to indicate where the various accessory parts can be fastened to the cylinder. The illustration has been simplified for this purpose. It is thus not possible to derive the dimensions from this overview.