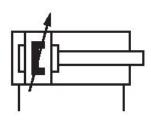
# Stainless Steel Round Cylinder, Series CSL-RD

R481624938

General series information AVENTICS Series CSL-RD Stainless Steel Round Cylinders (ISO 6432)

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.





#### **Technical data**

Industry Standards Piston Ø Stroke Ports Functional principle Cushioning Magnetic piston Environmental requirements

Piston rod Cylinder special features Industrial Based on ISO 6432 40 mm 400 mm G 1/4 Double-acting Pneumatic adjustable cushioning Piston with magnet Industry standard suitable for use in food processing ATEX optional single Version: short type



Pressure for determining piston forces	6,3 bar
Retracting piston force	660 N
Extracting piston force	790 N
Min. ambient temperature	-20 °C
Max. ambient temperature	0° 08
Working pressure min.	1 bar
Working pressure max	10 bar
Piston rod thread	M12x1,25
Cushioning length	18 mm
Cushioning energy	9 J
Weight 0 mm stroke	1.372 kg
Weight +10 mm stroke	0.024 kg
Stroke max.	1200 mm
Medium	Compressed air
Min. medium temperature	-20 °C
Max. medium temperature	0° 08
Max. particle size	50 μm
Oil content of compressed air min.	0 mg/m³
Oil content of compressed air max.	5 mg/m³
Clamping piece for magnetic field sensor necessary	Clamping piece for magnetic field sensor necessary

### Material

Piston rod Scraper material

Material, front cover Cylinder tube End cover Piston seal Nut for cylinder mounting Nut for piston rod Guide bushing Part No. Stainless Steel Thermoplastic polyurethane (TPU) Ultra-high-molecular-weight polyethylene (UHMW-PE) Stainless Steel Stainless Steel Stainless Steel Nitrile butadiene rubber Stainless Steel Stainless Steel Plastic R481624938



### 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.

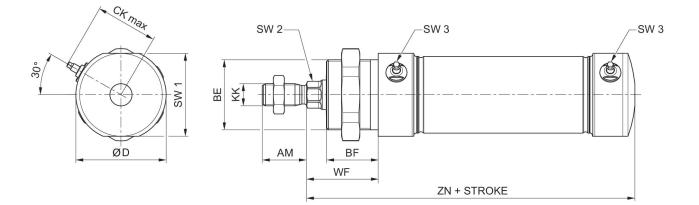
The operating temperature range for ATEX-certified cylinders is -20°C ... 60°C.

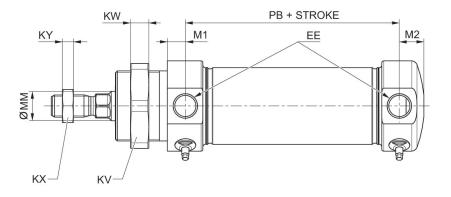
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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

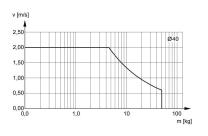


#### Stainless Steel Round Cylinder, Series CSL-RD R481624938

Piston Ø	AM	BE	BF	CK max.	D	EE	KK	KV	KW
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

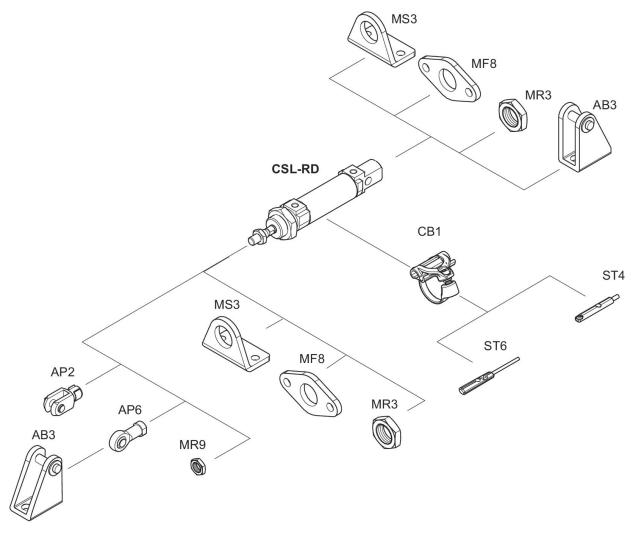
# Cushioning diagram



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.

