

Stainless Steel Round Cylinder, Series CSL-RD

R481624721

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	Industrial
Standards	Based on ISO 6432
Piston Ø	50 mm
Stroke	50 mm
Ports	G 1/4
Functional principle	Double-acting
Cushioning	Elastic cushioning
Magnetic piston	Piston with magnet
Environmental requirements	Industry standard suitable for use in food processing ATEX optional
Piston rod	single
Cylinder special features	Version: standard type

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

Material

Piston rod	Stainless Steel
Scraper material	Thermoplastic polyurethane (TPU) Ultra-high-molecular-weight polyethylene (UHMW-PE)
Material, front cover	Stainless Steel
Cylinder tube	Stainless Steel
End cover	Stainless Steel
Piston seal	Nitrile butadiene rubber
Nut for cylinder mounting	Stainless Steel
Nut for piston rod	Stainless Steel
Guide bushing	Plastic
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Technical information

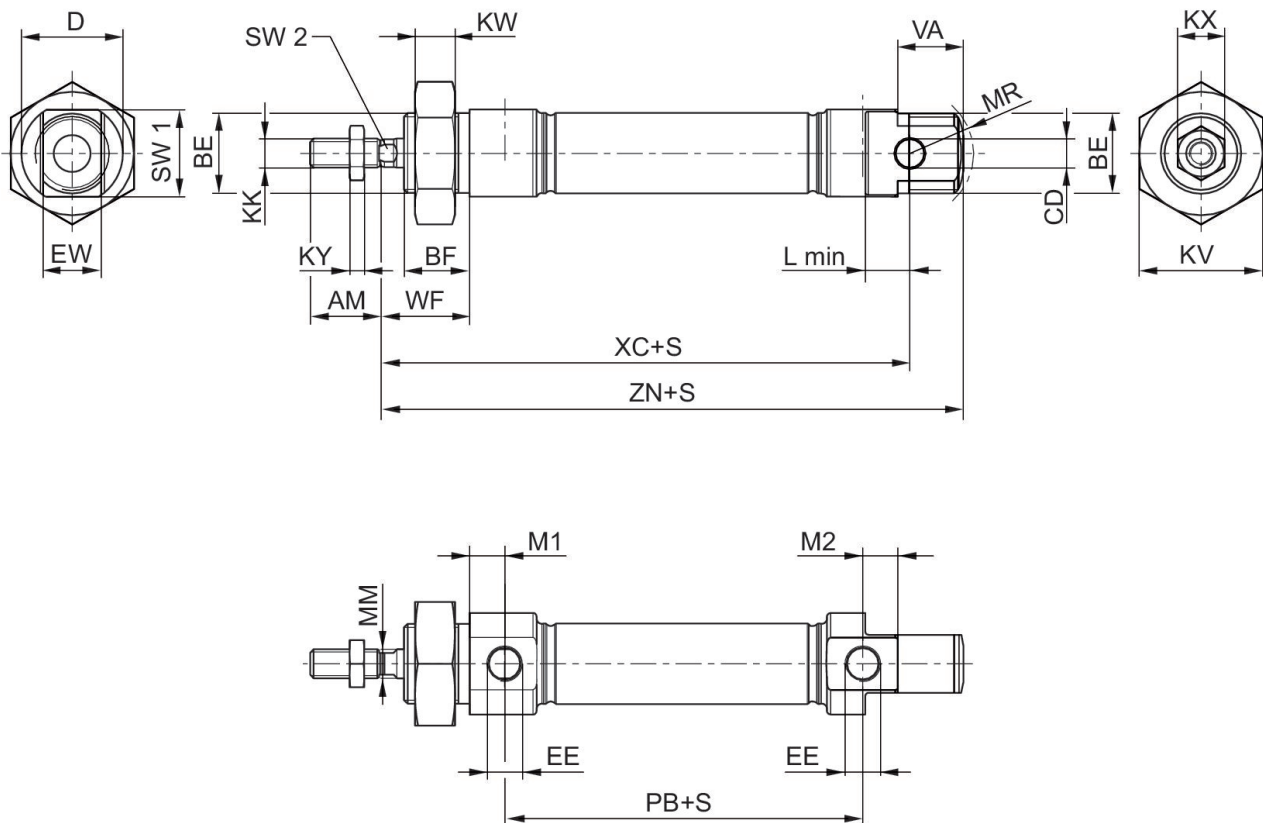
ATEX-certified cylinders with identification II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135°C Db_X can be generated in the Internet configurator.

The 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



S = stroke

Piston Ø	AM	BE	BF	CD H9	D	EE	EW d13	KK	KV
16	16	M16x1,5	16	6	22	M5	12	M6	24
20	20	M22x1,5	18	8	28	G 1/8	16	M8	32
25	22	M22x1,5	20	8	33	G 1/8	16	M10x1,25	32
32	22	M30x1,5	25	10	38	G 1/8	16	M10x1,25	36

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Piston Ø	AM	BE	BF	CD H9	D	EE	EW d13	KK	KV
40	24	M38x1,5	28	12	49	G 1/4	18	M12x1,25	46
50	32	M45x1,5	32	16	57	G 1/4	21	M16x1,25	55
63	32	M45x1,5	32	16	70	G 3/8	21	M16x1,25	55

Piston Ø	KW	KX	KY	L min	M1	M2	MM f8	MR	PB ±1
16	8	10	3,2	9	6,7	6,7	6	16	43,6
20	11	13	4	12	9,7	9,7	8	18	48,6
25	11	17	5	12	9,7	9,7	10	19	52,6
32	8	17	5	14	9,5	11,7	12	-	46
40	10	18	6	16	9,8	8,7	16	-	66
50	10	24	8	17	9,8	8,3	20	-	68
63	10	24	8	17	13	9,3	20	-	71,5

Piston Ø	VA	WF ±1,4	XC ±1	ZN ± 1	SW 1	SW 2
16	16	22	82	94,7	20	5
20	18	24	95	109,7	24	6
25	20	28	104	119,7	28	8
32	-	34	117,5	129,5	35	10
40	-	39	139,6	153,5	45	13
50	-	44	147,2	163	53	17
63	-	44	155	171	66	17

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.