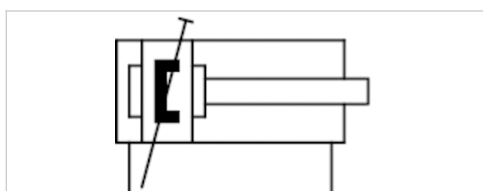


Mini cylinder, Series CSL-RD

- Version: hygienic design
- Ø 16-25 mm
- Ports M5 G 1/8
- double-acting
- with magnetic piston
- Cushioning Pneumatically non-adjustable
- with integrated rear eye
- Piston rod External thread
- ATEX optional
- suitable for use in food processing



Standards	ISO 6432
Certificates	ATEX optional
Compressed air connection	Internal thread
Working pressure min./max.	1 ... 10 bar
Ambient temperature min./max.	-20 ... 80 °C
Medium temperature min./max.	-20 ... 80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Pressure for determining piston forces	6.3 bar

Technical data

Piston Ø Piston rod thread Ports Piston rod Ø	16 mm M6 M5 6 mm	20 mm M8 G 1/8 8 mm	25 mm M10x1,25 G 1/8 10 mm
Stroke 25	R480651399	R480651410	R480651421
50	R480651400	R480651411	R480651422
80	R480651401	R480651412	R480651423
100	R480651402	R480651413	R480651424
125	R480651403	R480651414	R480651425
160	R480651404	R480651415	R480651426
200	R480651405	R480651416	R480651427
250	R480651406	R480651417	R480651428
320	R480651407	R480651418	R480651429
400	R480651408	R480651419	R480651430
500	R480651409	R480651420	R480651431

Technical data

Piston Ø	16 mm	20 mm	25 mm
Retracting piston force	109 N	166 N	260 N
Extracting piston force	127 N	198 N	309 N
Cushioning length	11,5 mm	13 mm	14 mm
Cushioning energy	0,75 J	1,3 J	1,9 J
Impact energy	0,14 J	0,23 J	0,35 J
Weight 0 mm stroke	0,034 kg	0,063 kg	0,082 kg
Weight +10 mm stroke	0,002 kg	0,005 kg	0,006 kg
Stroke max.	800 mm	1100 mm	1300 mm

Technical information

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 the MediaCentre).

Clamping piece for magnetic field sensor necessary

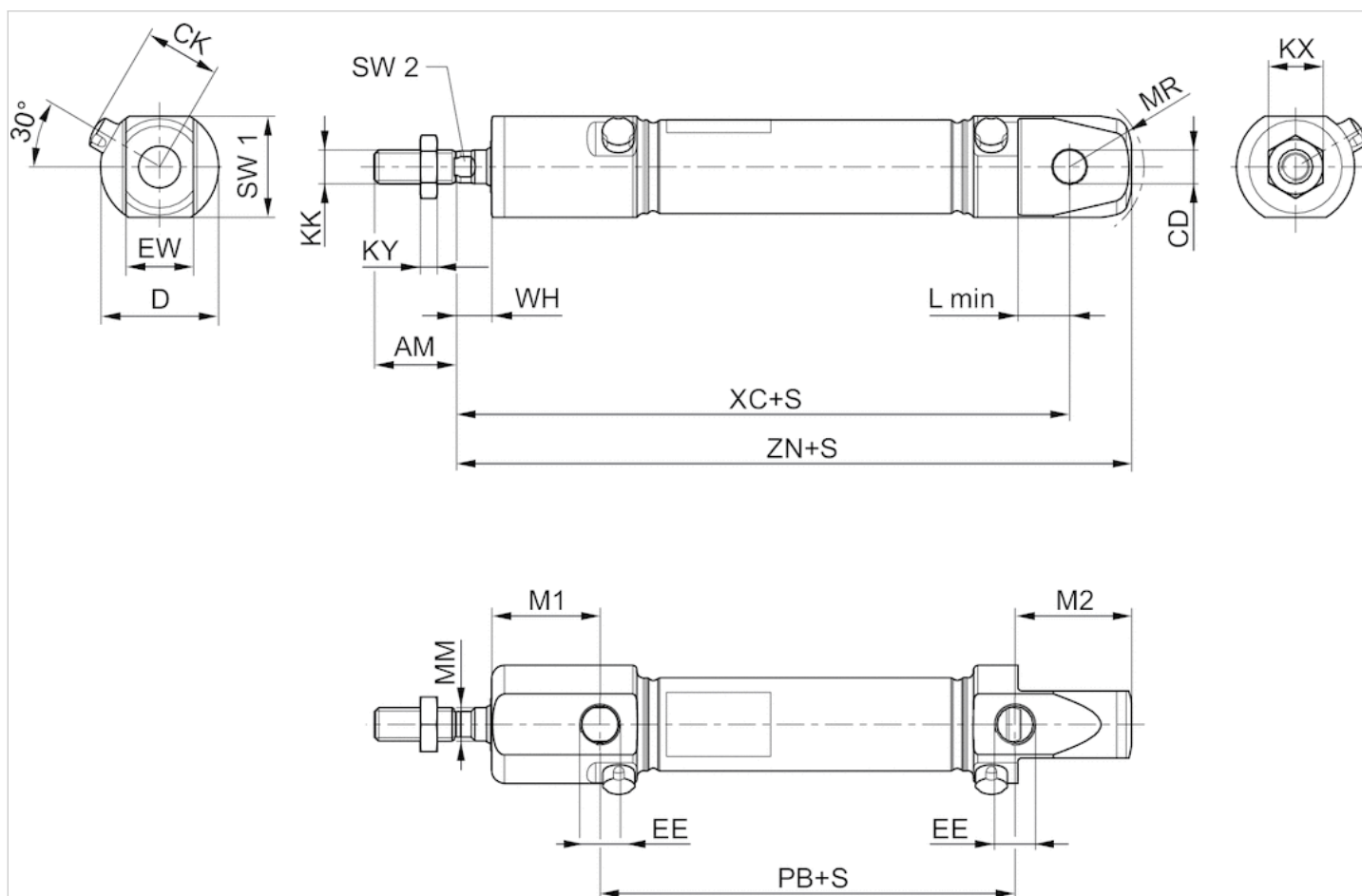
ATEX-certified cylinders with identification II 2G c IIB T4 / II 2D c IP65 T135°C X can be generated in the Internet configurator.
The operating temperature range for ATEX-certified cylinders is - 20 °C ... 50 °C .

Technical information

Material	
Cylinder tube	Stainless steel, ground
Piston rod	Stainless steel, ground
Piston	Aluminum
Front cover	Stainless steel, Electropolished
End cover	Stainless steel, Electropolished
Seal	Nitrile butadiene rubber
Nut for cylinder mounting	Stainless steel, ground
Nut for piston rod	Stainless steel, ground
Scraper	Polyurethane (FDA-compliant)
Guide bushing	Steel

Dimensions

Dimensions



S = stroke

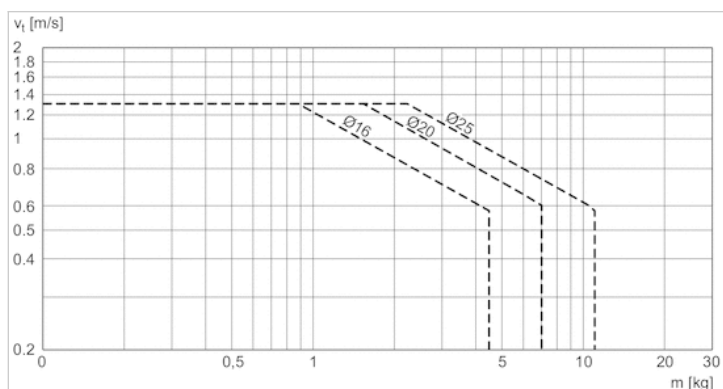
Dimensions

Piston Ø	AM-2	CD H9	CK	D	EE	EW d13	KK	KX	KY	L min	M1	M2	MM f8
16 mm	16	6	14.7	22	M5 t=5	12	M6	10	3.2	9	21.2	22.7	6
20 mm	20	8	17.9	28	G 1/8 t=8	16	M8	13	4	12	25.7	27.7	8
25 mm	22	8	20.2	33	G 1/8 t=8	16	M10x1,25	17	5	12	28.2	29.7	10

Piston Ø	MR	PB ±1	WH ±1,2	XC ±1	ZN ± 1	SW 1	SW 2
16 mm	16	43.6	7.5	82	94.7	20	5
20 mm	18	48.6	8	95	109.7	24	6
25 mm	19	51.8	9.5	104	119.7	28	8

Diagrams

Cushioning diagram

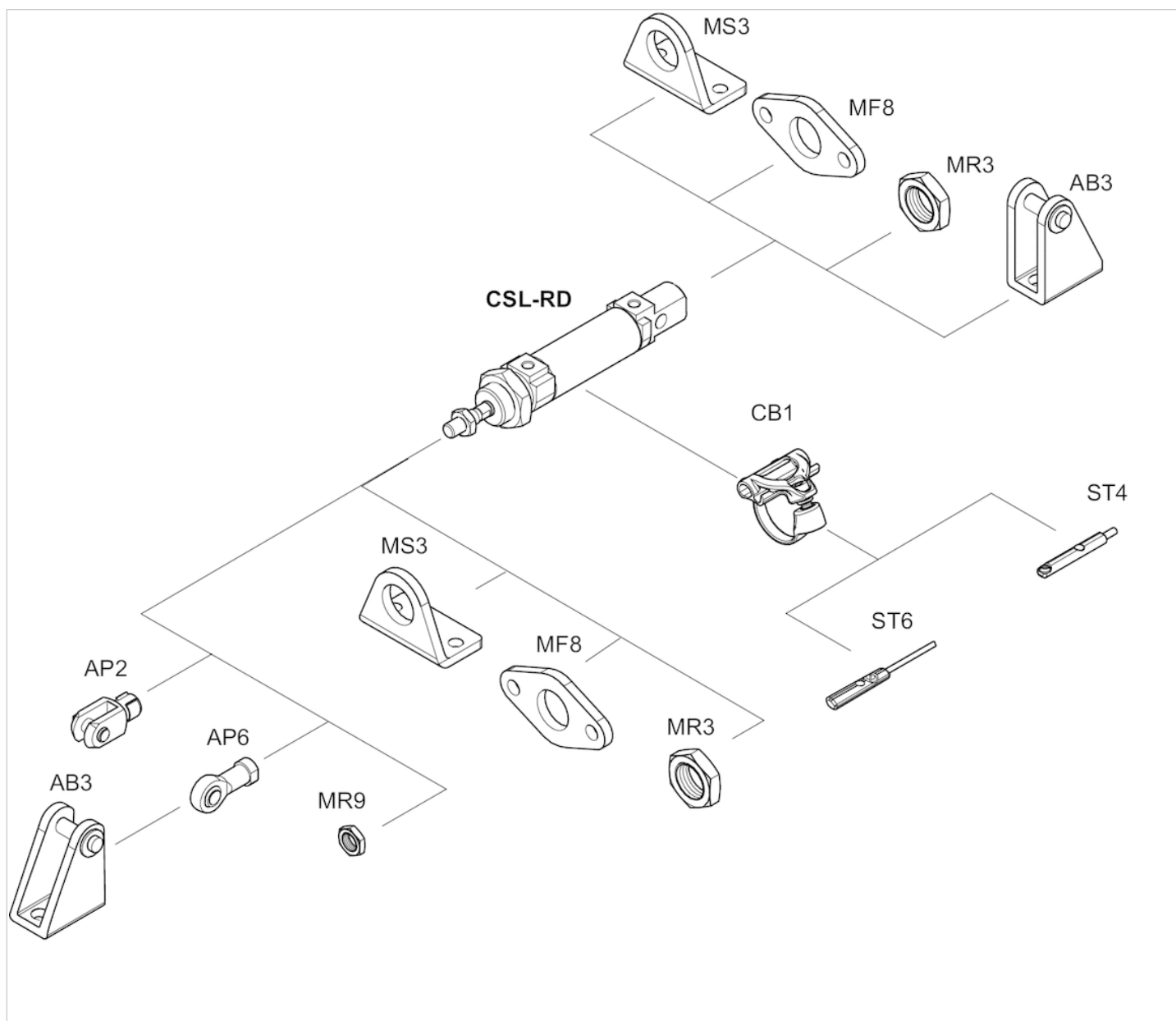


v_1 = Piston velocity [m/s]

m = Cushionable mass [kg]

Accessories overview

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.