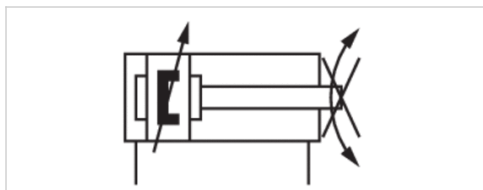


Mini cylinder, Series MNI

- ISO 6432
- Ø 16-25 mm
- Ports M5 G 1/8
- double-acting
- with magnetic piston
- Cushioning pneumatically adjustable
- with integrated rear eye
- Piston rod External thread
- Piston rod non-rotating



Standards	ISO 6432
Compressed air connection	Internal thread
Working pressure min./max.	1 ... 10 bar
Ambient temperature min./max.	-25 ... 80 °C
Medium temperature min./max.	-25 ... 80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Pressure for determining piston forces	6.3 bar
Weight	See table below



Technical data

	16 mm	20 mm	25 mm
Piston Ø	16 mm	20 mm	25 mm
Piston rod thread	M6	M8	M10x1,25
Ports	M5	G 1/8	G 1/8
Piston rod Ø	6 mm	8 mm	10 mm
Cylinder outer thread	M16x1,5	M22x1,5	M22x1,5
Stroke 10	R480680343	R480680355	R480680367
25	R480680344	R480680356	R480680368
50	R480680345	R480680357	R480680369
80	R480680346	R480680358	R480680370
100	R480680347	R480680359	R480680371
125	R480680348	R480680360	R480680372
160	R480680349	R480680361	R480680373
200	R480680350	R480680362	R480680374
250	R480680351	R480680363	R480680375
320	R480680352	R480680364	R480680376
400	R480680353	R480680365	R480680377
500	R480680354	R480680366	R480680378

Other versions can be ordered from AVENTICS sales offices.

Technical data

Piston Ø	16 mm	20 mm	25 mm
Retracting piston force	110 N	171 N	265 N
Extracting piston force	127 N	198 N	309 N
Cushioning length	9 mm	13 mm	17,5 mm
Cushioning energy	0,6 J	1,5 J	2,3 J
Torque for torsion protection, max.	0,1 Nm	0,25 Nm	0,4 Nm
Rotation angle tolerance (±)	3,2 °	2,5 °	2,2 °
Weight 0 mm stroke	0,1 kg	0,16 kg	0,265 kg
Weight +10 mm stroke	0,006 kg	0,009 kg	0,013 kg
Stroke max.	800 mm	1100 mm	1300 mm

The cushioning diagram can be found in the "Technical information" document (available in the MediaCentre).

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 can be generated in the Internet configurator.

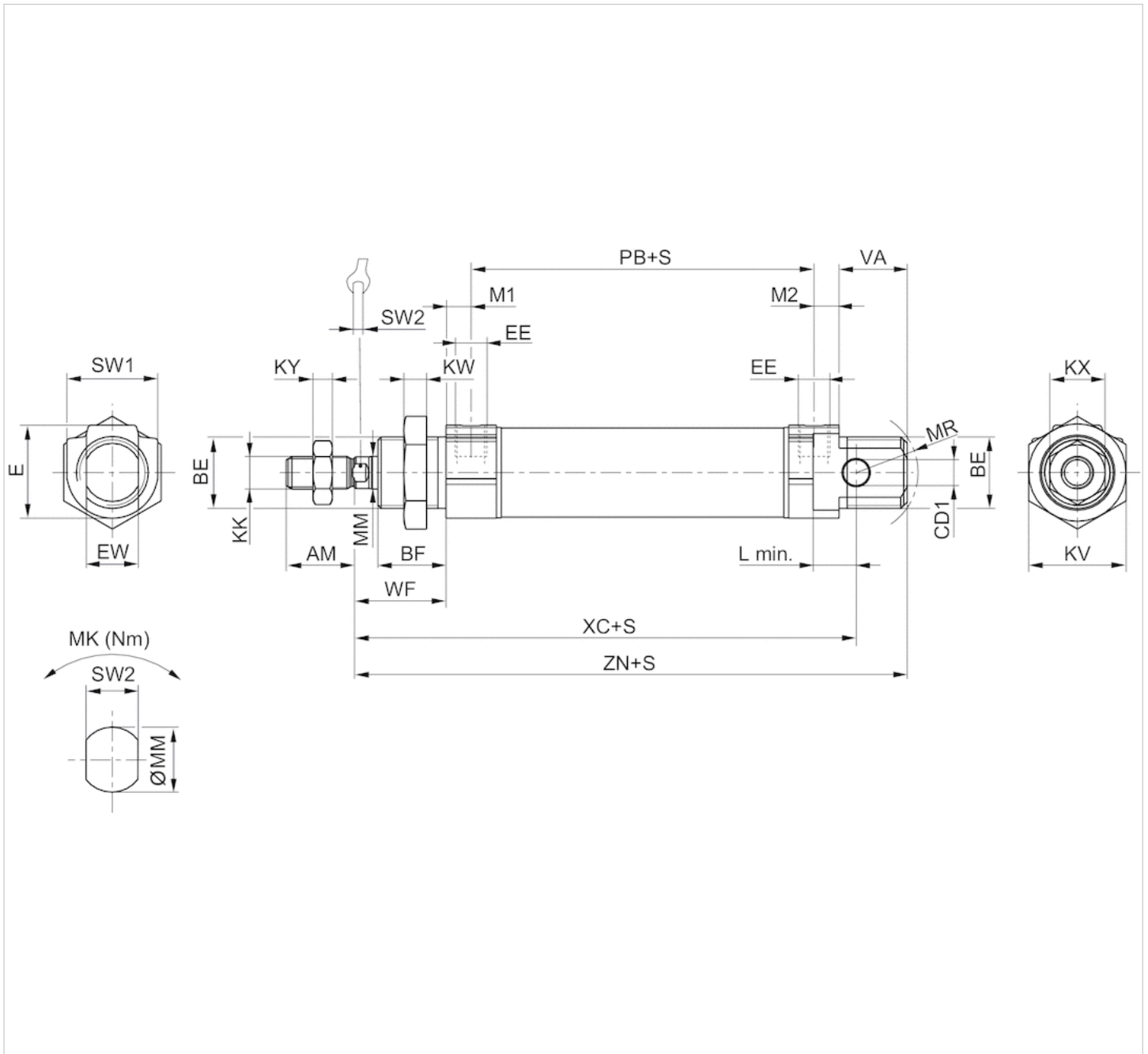
ATEX-certified cylinders with identification II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135°C Db_X can be generated in the Internet configurator.

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

Technical information

Material	
Cylinder tube	Stainless steel
Piston rod	Stainless steel
Piston	Brass, Aluminum
Front cover	Aluminum, anodized
End cover	Aluminum, anodized
Seal	Acrylonitrile butadiene rubber Polyurethane
Nut for cylinder mounting	Steel, galvanized
Nut for piston rod	Steel, galvanized
Scraper	Polyurethane

Dimensions



Dimensions

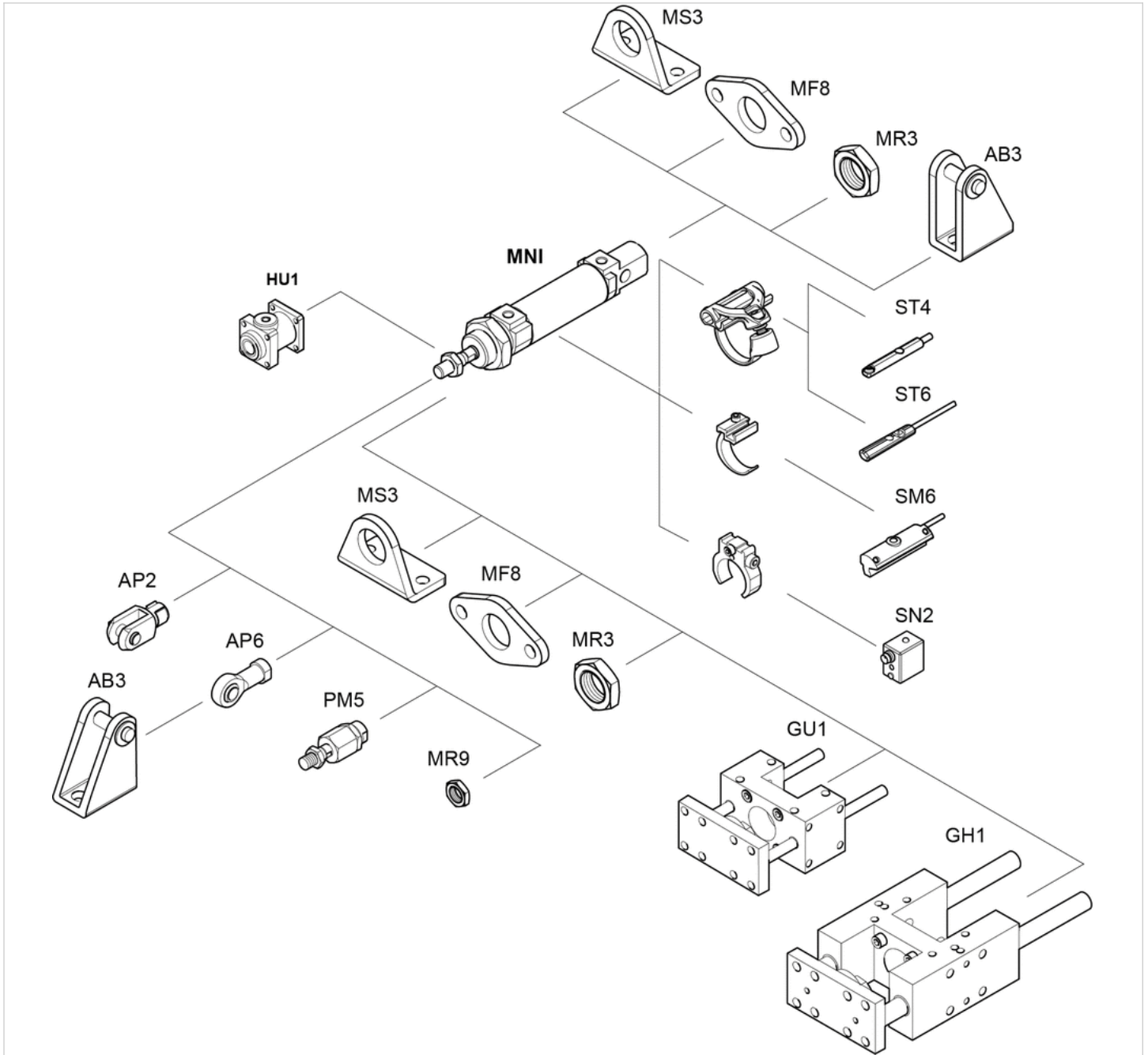
Piston Ø	AM-2	BE	BF	CD1 H9	E	EE t = depth of thread	EW d13	KK	KV	KW
16 mm	16	M16x1,5	16	6	19	M5 t=5	12	M6	22	6
20 mm	20	M22x1,5	18	8	28,6	G1/8 t=8	16	M8	30	7
25 mm	22	M22x1,5	21	8	28,6	G1/8 t=8	16	M10x1,25	30	7

Piston Ø	KX	KY	L	MK	MM f8	M1/M2	MR	PB ±1	VA	WF ±1,4	XC ±1	Y ± 1	ZN ± 1,4	SW 1
16 mm	10	3.2	8	0,1	6	4.8	16	47	17	22	82	27	95.5	19
20 mm	13	4	12	0,25	8	7	18	51	19	24	95	32	109.5	28
25 mm	17	6	12	0,4	10	7	19	55	21	28	104	36	119.5	28

Piston Ø	SW 2
16 mm	5
20 mm	6
25 mm	8

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.

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