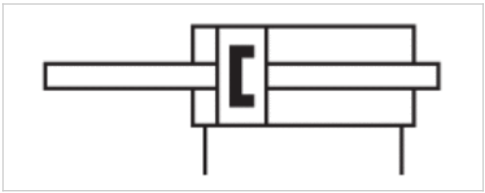
Mini cylinder, Series MNI

- ISO 6432
- Ø 16-25 mm
- Ports M5 G 1/8
- double-acting
- with magnetic piston
- Cushioning elastic
- Piston rod External thread
- Piston rod through
- ATEX optional



Standards	ISO 6432
Certificates	ATEX optional
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/m³
Pressure for determining piston forces	6.3 bar
Weight	See table below

Technical data

Piston Ø Piston rod thread Ports Piston rod Ø Cylinder outer thread	16 mm M6 M5 6 mm M22x1,5	20 mm M8 G 1/8 8 mm M22x1,5	25 mm M10x1,25 G 1/8 10 mm M22x1,5
Stroke 10	0822382001	0822383001	0822384001
25	0822382002	0822383002	0822384002
50	0822382003	0822383003	0822384003
80	0822382004	0822383004	0822384004
100	0822382005	0822383005	0822384005
125	0822382006	0822383006	0822384006
160	0822382007	0822383007	0822384007
200	0822382008	0822383008	0822384008
250	0822382010	0822383009	0822384009
320	R480623516	0822383010	0822384010
400	-	-	0822384011
500	-	-	0822384012

Technical data

Piston Ø	16 mm	20 mm	25 mm
Retracting piston force	109 N	166 N	260 N
Extracting piston force	109 N	166 N	260 N
Impact energy	0,14 J	0,23 J	0,35 J
Weight 0 mm stroke	0,091 kg	0,182 kg	0,317 kg
Weight +10 mm stroke	0,006 kg	0,01 kg	0,016 kg
Stroke max.	675 mm	675 mm	675 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

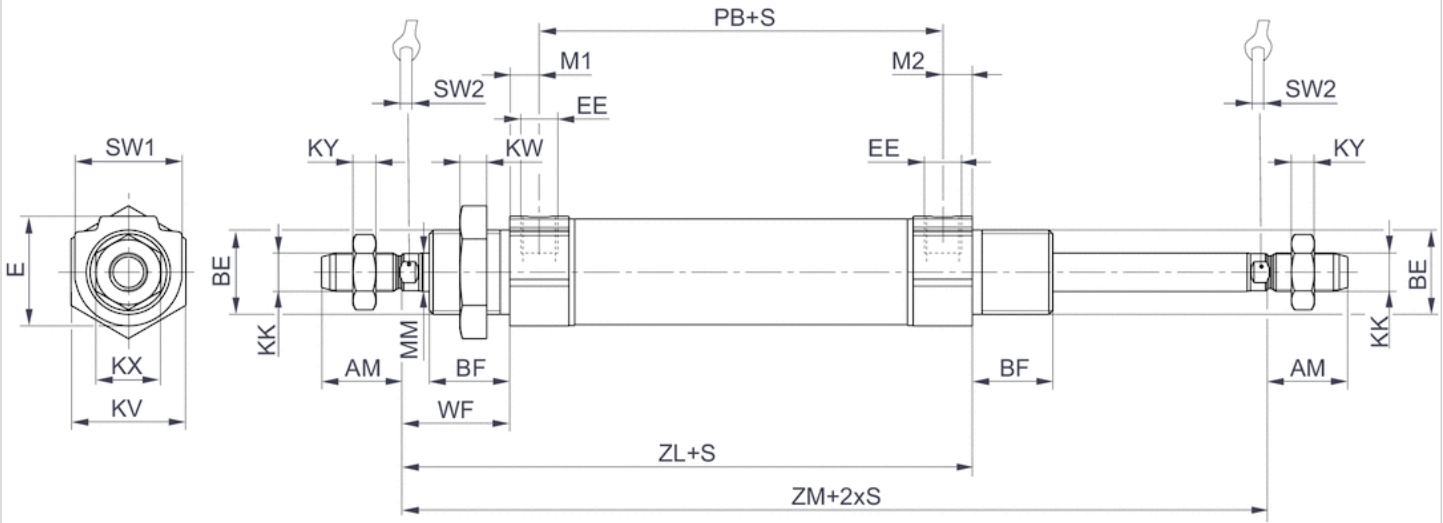
ATEX-certified cylinders with identification II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135°C Db_X can be generated in the Internet configurator.
The operating temperature range for ATEX-certified cylinders is -20°C ... 60°C.
Warning: The front and rear piston rods must not be twisted against one another!

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



S = stroke

Dimensions

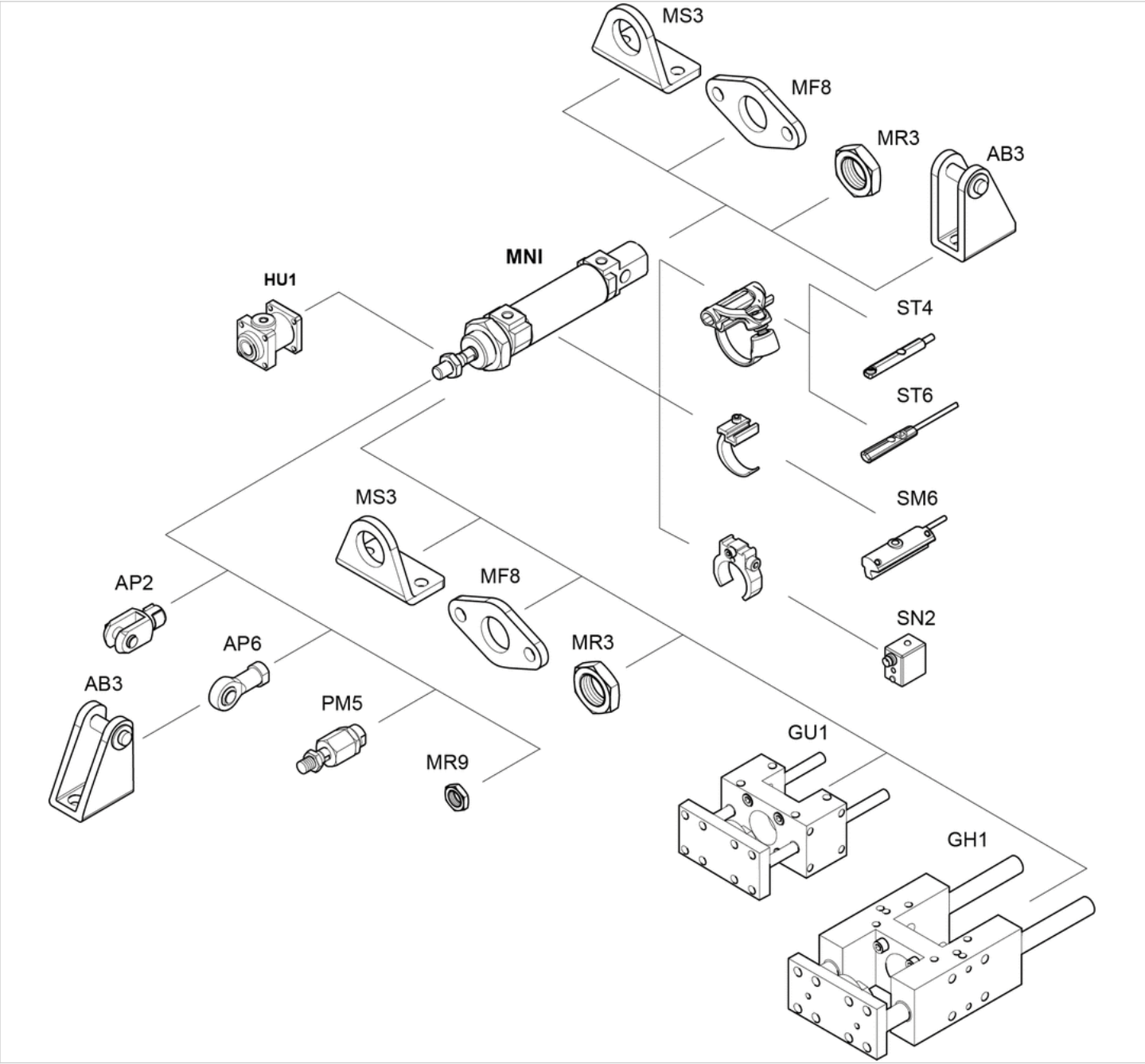
Piston Ø	AM –2	BE	BF	E	EE t = depth of thread	KK	KV	KW	KX	KY	MM f8
16 mm	16	M16x1,5	16	19	M5 t=5	M6	22	6	10	3.2	6
20 mm	20	M22x1,5	18	28	G1/8 t=8	M8	30	7	13	4	8
25 mm	22	M22x1,5	21	28	G1/8 t=8	M10x1,25	30	7	17	6	10

Piston Ø	M1/M2	PB ±1	SW 1	SW 2	WF ±1,4	ZL ± 1,7	ZM +0/-2,5
16 mm	4.8	47	19	5	22	78.5	102.5

Piston Ø	M1/M2	PB ±1	SW 1	SW 2	WF ±1,4	ZL ± 1,7	ZM +0/-2,5
20 mm	7	51	28	6	24	90.5	116.4
25 mm	7	55	28	8	28	98.5	128.2

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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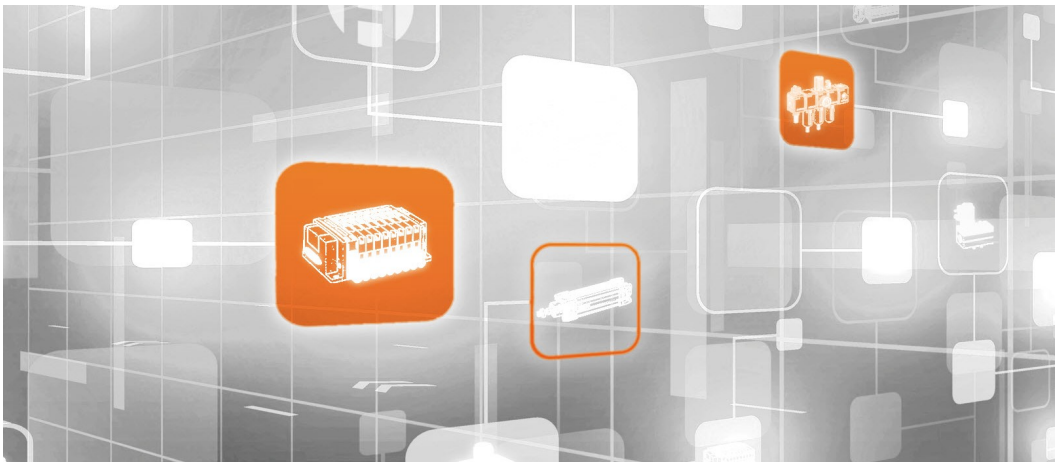

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