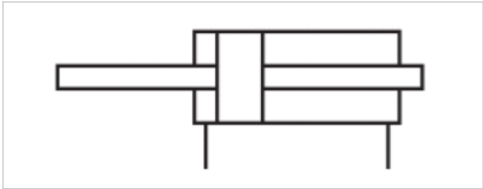
Mini cylinder, Series MNI

- ISO 6432
- Ø 10-25 mm
- Ports M5 G 1/8
- double-acting
- 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	10 mm M4 M5 4 mm M12x1,25	12 mm M6 M5 6 mm M16x1,5	16 mm M6 M5 6 mm M16x1,5	20 mm M8 G 1/8 8 mm M22x1,5	25 mm M10x1,25 G 1/8 10 mm M22x1,5
Stroke 10	0822080201	0822081201	0822082201	0822083201	0822084201
25	0822080202	0822081202	0822082202	0822083202	0822084202
50	0822080203	0822081203	0822082203	0822083203	0822084203
80	0822080204	0822081204	0822082204	0822083204	0822084204
100	0822080205	0822081205	0822082205	0822083205	0822084205
125	0822080209	0822081206	0822082206	0822083206	0822084206
160	-	0822081207	0822082207	0822083207	0822084207
200	-	0822081209	0822082208	0822083208	0822084208
250	-	-	-	0822083209	0822084209
320	-	-	-	0822083210	0822084210
400	-	-	-	-	0822084211
500	-	-	-	R480641970	0822084212

Technical data

Piston Ø	10 mm	12 mm	16 mm	20 mm	25 mm
Retracting piston force	42 N	53 N	109 N	166 N	260 N
Extracting piston force	42 N	53 N	109 N	166 N	260 N
Impact energy	0,04 J	0,07 J	0,14 J	0,23 J	0,35 J
Weight 0 mm stroke	0,039 kg	0,073 kg	0,091 kg	0,182 kg	0,317 kg
Weight +10 mm stroke	0,003 kg	0,005 kg	0,006 kg	0,01 kg	0,016 kg
Stroke max.	250 mm	600 mm	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).

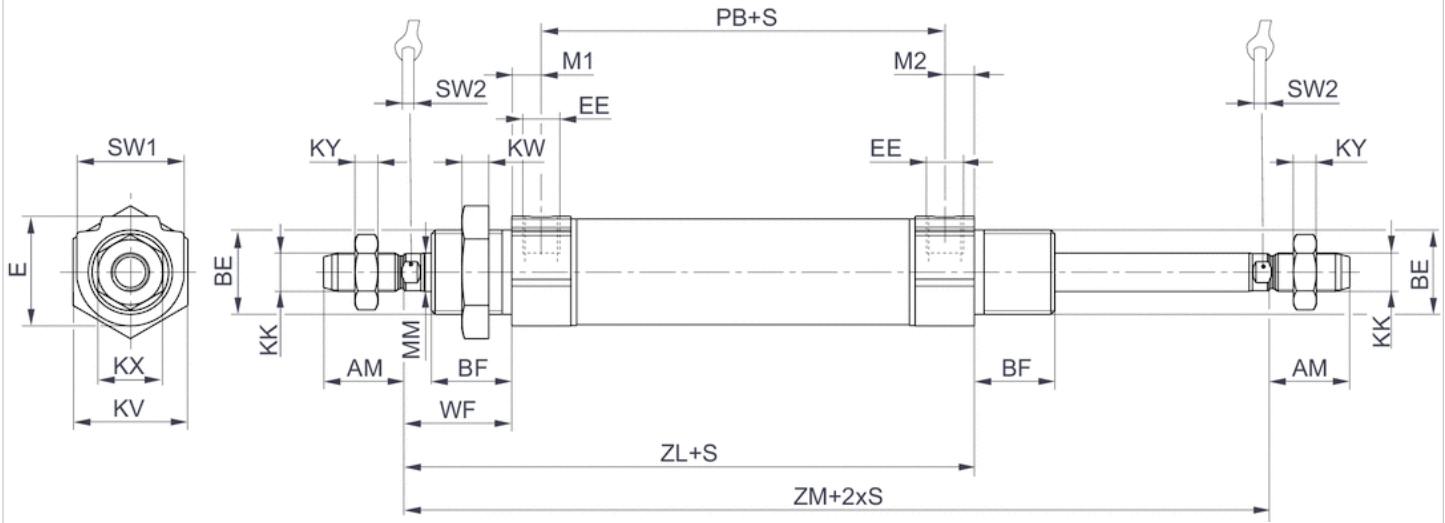
ATEX-certified cylinders with identification II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135°C Db_X can be generated in the Internet configurator.
The operating temperature range for ATEX-certified cylinders is -20°C ... 60°C.
Warning: The front and rear piston rods must not be twisted against one another!

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

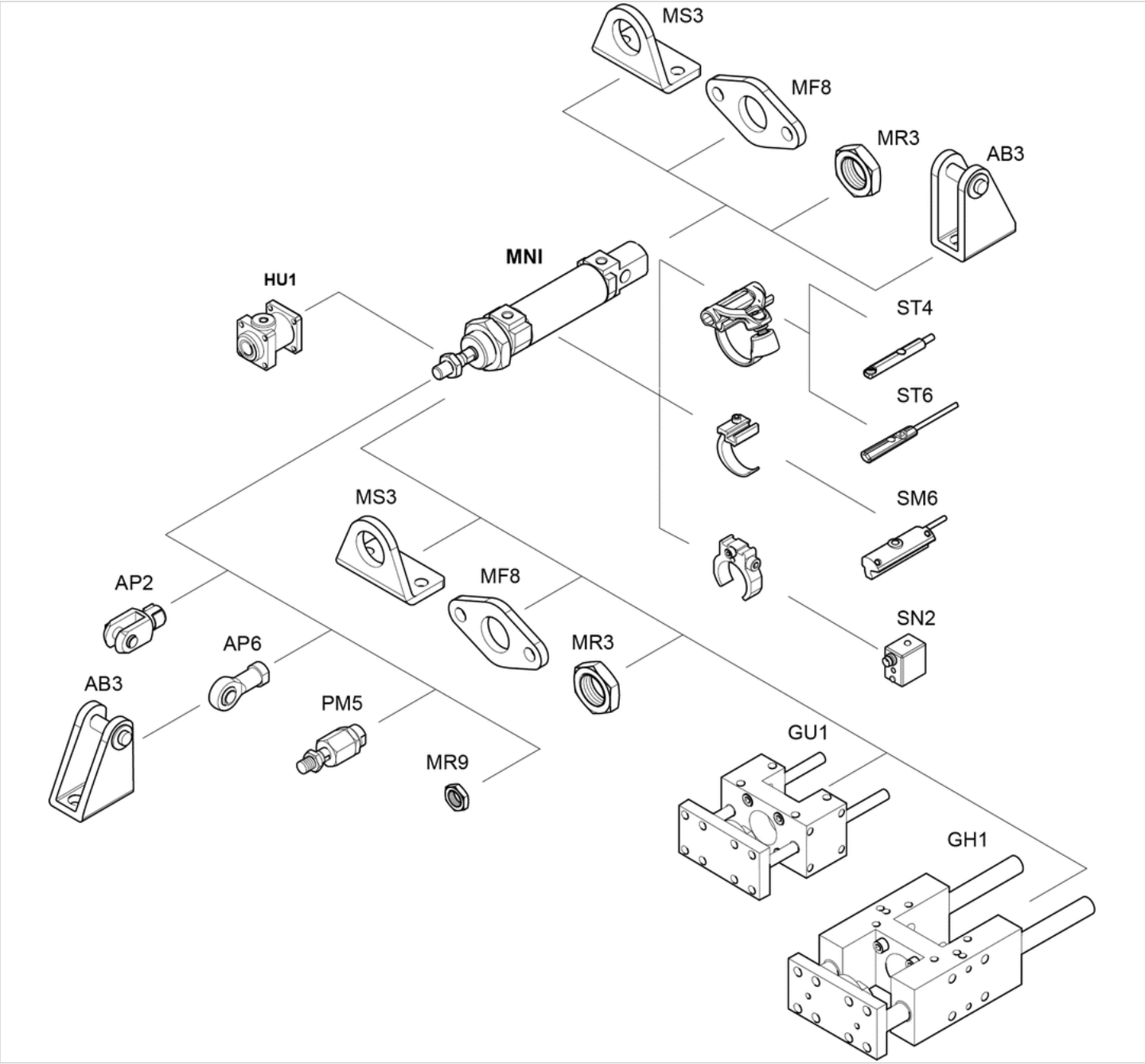
Dimensions

Piston Ø	AM –2	BE	BF	E	EE t = depth of thread	KK	KV	KW	KX	KY	MM f8
10 mm	12	M12x1,25	11	14	M5 t=5	M4	17	5.5	7	2.2	4
12 mm	16	M16x1,5	16	19	M5 t=5	M6	22	6	10	3.2	6
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
10 mm	4.8	37	13	3	16	62.5	80.5
12 mm	4.8	41	19	5	22	72.5	96.5
16 mm	4.8	47	19	5	22	78.5	102.5
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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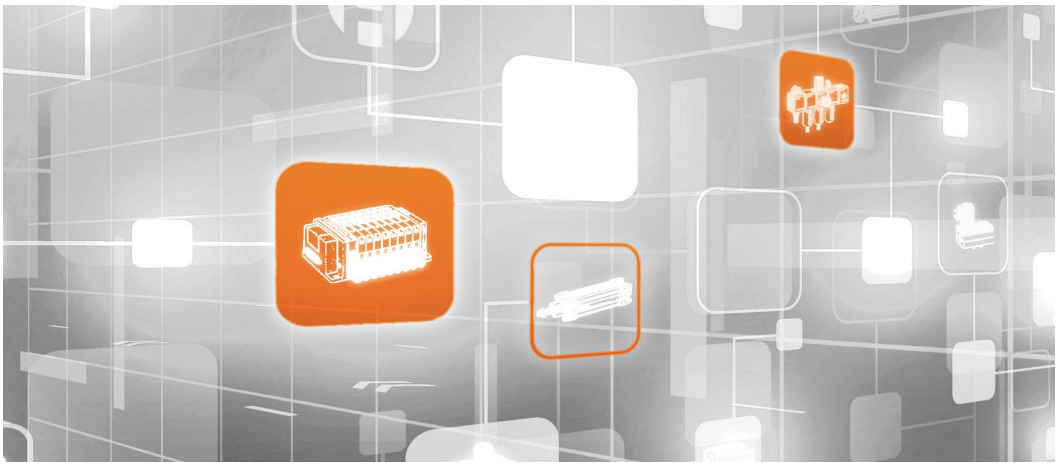

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