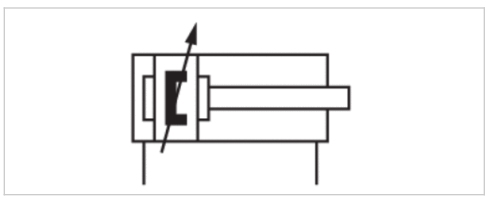
Mini cylinder, Series MNI

- Ø 16-25 mm
- Ports M5 G 1/8
- double-acting
- with magnetic piston
- Cushioning Pneumatically adjustable
- corrosion-protected
- with integrated rear eye
- Piston rod External thread
- ATEX optional



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/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 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	0822332501	0822333501	0822334501
25	0822332502	0822333502	0822334502
50	0822332503	0822333503	0822334503
80	0822332504	0822333504	0822334504
100	0822332505	0822333505	0822334505
125	0822332506	0822333506	0822334506
160	0822332507	0822333507	0822334507
200	0822332508	0822333508	0822334508
250	0822332509	0822333509	0822334509
320	0822332510	0822333510	0822334510
400	0822332511	0822333519	0822334511
500	0822332512	0822333541	0822334512

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	9 mm	13 mm	17,5 mm
Cushioning energy	0,6 J	1,5 J	2,3 J
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

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

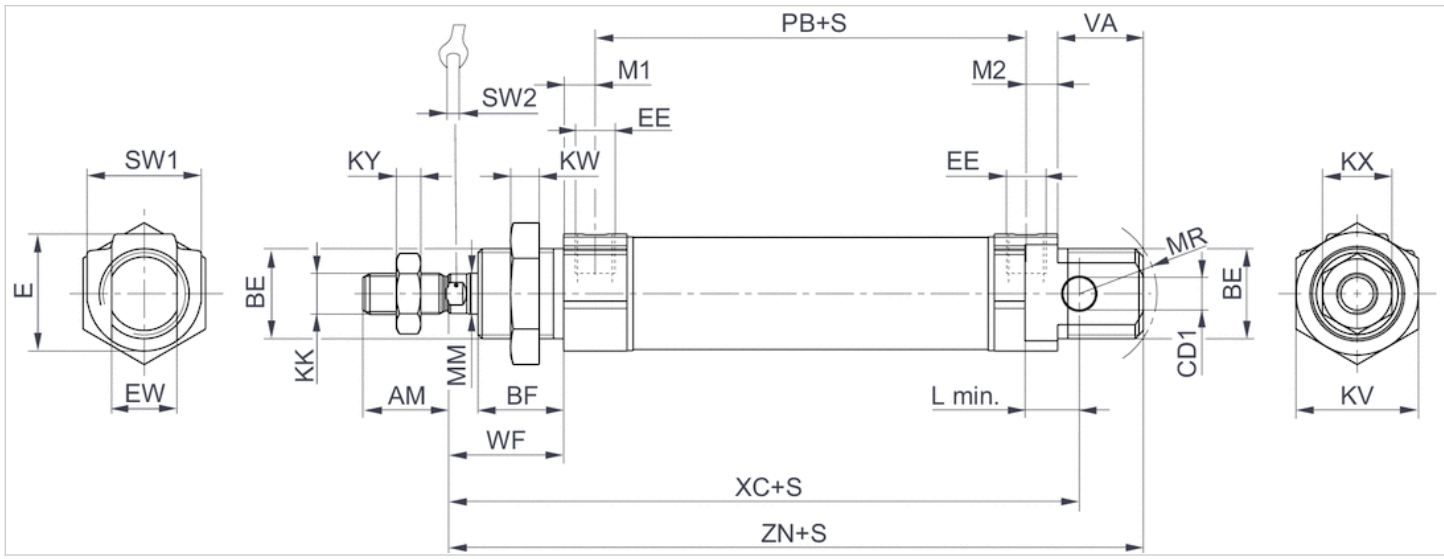
ATEX-certified cylinders can be generated in the Internet configurator.
ATEX ID: II 2G c IIB T4
II 2D c IP65 T125°C X
The operating temperature range for ATEX-certified cylinders is - 20 °C ... 50 °C .

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



S = stroke

Dimensions

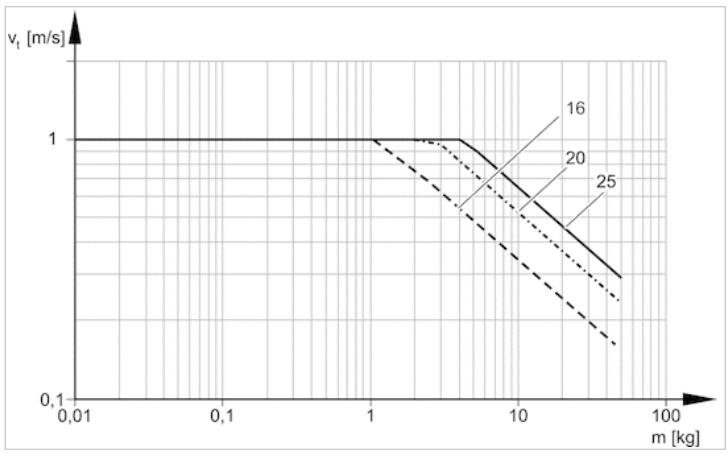
Piston Ø	AM–2	BE	BF	CD H9	E	EE	EW d13	KK	KV	KW	KX	KY	L min
16 mm	16	M16x1,5	16	6	19	M5 t=5	12	M6	22	6	10	3.2	8
20 mm	20	M22x1,5	18	8	28	G1/8 t=8	16	M8	30	7	13	4	12
25 mm	22	M22x1,5	21	8	28	G1/8 t=8	16	M10x1,25	30	7	17	6	12

Piston Ø	MM f8	M1/M2	MR	PB ±1	VA	WF ±1,4	XC ±1	Y ± 1	ZN ± 1,4	SW 1	SW 2
16 mm	6	4.8	16	47	17	22	82	27	95.5	19	5
20 mm	8	7	18	51	19	24	95	32	109.5	28	6
25 mm	10	7	19	55	21	28	104	36	119.5	28	8

t = depth of thread

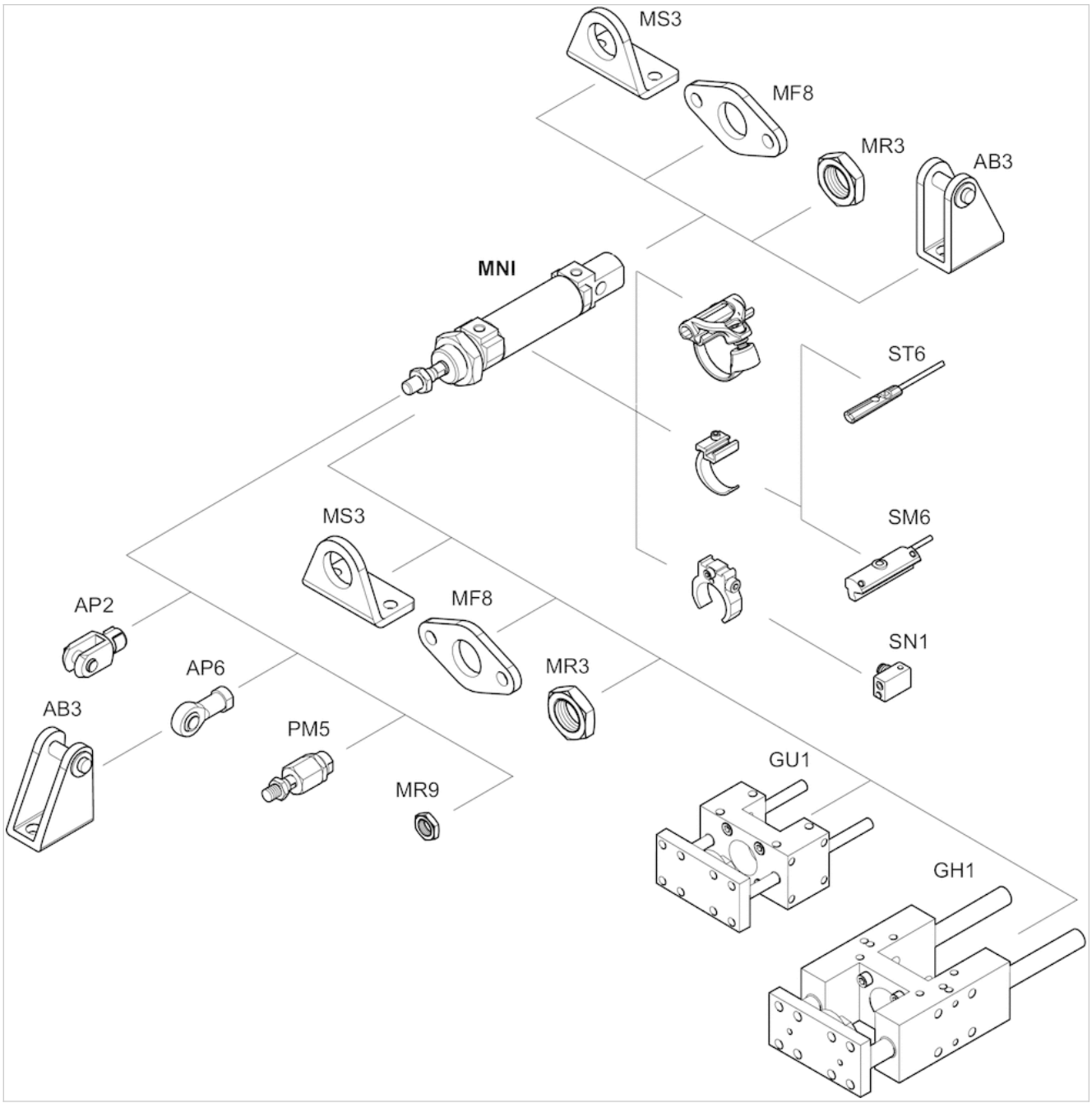
Diagrams

Cushioning diagram



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.