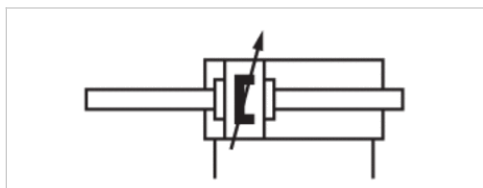


Mini cylinder, Series MNI

- Ø 16-25 mm
- Ports M5 G 1/8
- double-acting
- with magnetic piston
- Cushioning Pneumatically adjustable
- corrosion-protected
- 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 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	R480680379	R480680390	R480680402
25	R480680380	R480680391	R480680403
50	R480680381	R480680392	R480680404
80	R480680382	R480680393	R480680405
100	R480680383	R480680394	R480680406
125	R480680384	R480680395	R480680407
160	R480680385	R480680396	R480680408
200	R480680386	R480680397	R480680409
250	R480680387	R480680398	R480680410
320	R480680388	R480680399	R480680411
400	R480680389	R480680400	R480680412
500	-	R480680401	R480680413

Other versions can be ordered from AVENTICS sales offices.

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
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	0,193 kg	0,334 kg
Weight +10 mm stroke	0,063 kg	0,102 kg	0,155 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 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 .

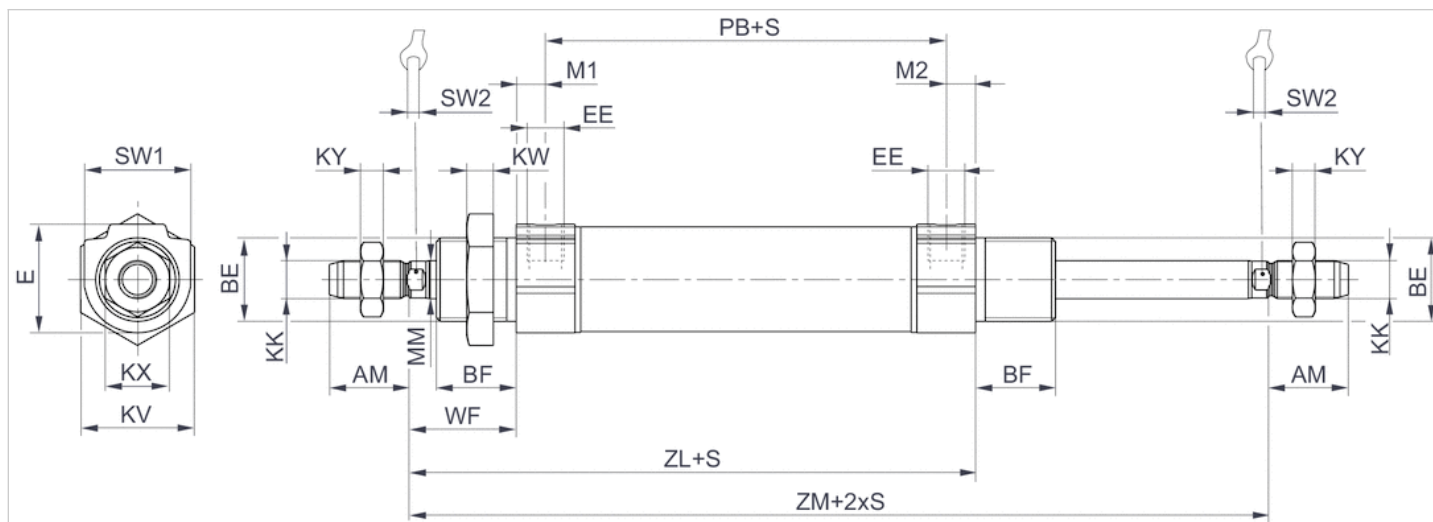
Warning: The front and rear piston rods must not be twisted against one another!

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

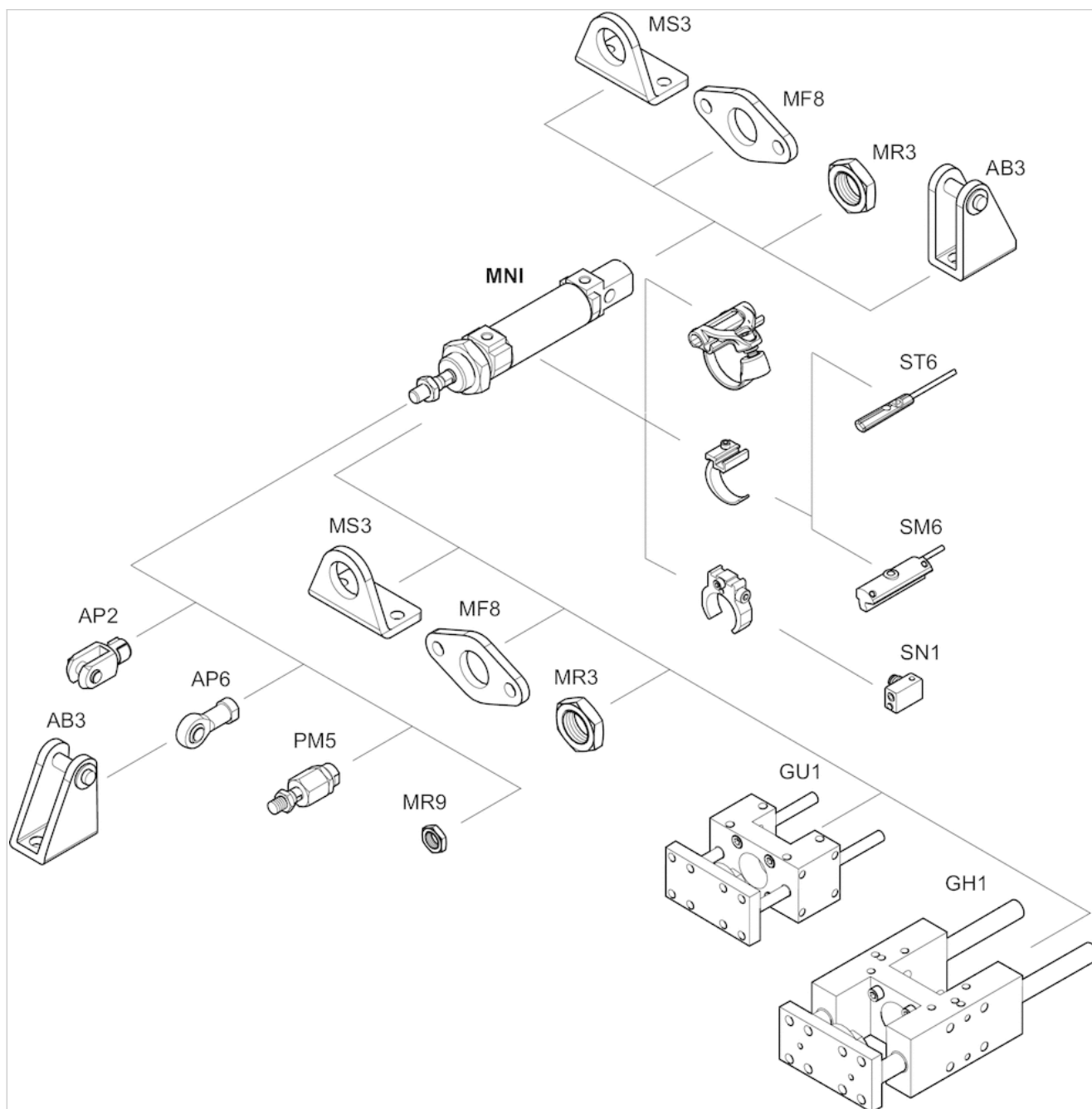
Piston Ø	AM -2	BE	BF	E	EE	KK	KV	KW	KX	KY	MM f8	M1/M2	PB ±1	SW 1
16 mm	16	M16x1,5	16	19	M5 t=5	M6	22	6	10	3.2	6	4.8	47	19
20 mm	20	M22x1,5	18	28	G1/8 t=8	M8	30	7	13	4	8	7	51	28
25 mm	22	M22x1,5	21	28	G1/8 t=8	M10x1,25	30	7	17	6	10	7	55	28

Piston Ø	SW 2	WF ±1,4	ZL ± 1,7	ZM +0/-2,5
16 mm	5	22	78.5	102.5
20 mm	6	24	90.5	116.4
25 mm	8	28	98.5	128.2

t = depth of thread

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.