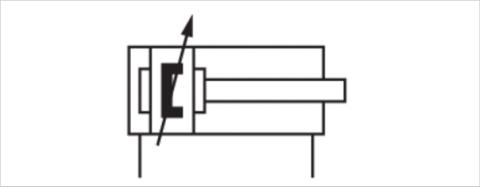
Mini cylinder, Series MNI

- ISO 6432
- Ø 16-25 mm
- Ports M5 G 1/8
- double-acting
- with magnetic piston
- Cushioning pneumatically adjustable
- Polymer bearing bushing in rear eye
- Piston rod External thread



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	5226720100	5226744100	5226734100
15	5226720150	5226744150	5226734150
20	-	5226744200	5226734200
25	5226720250	5226744250	5226734250
30	5226720300	5226744300	5226734300
40	5226720400	5226744400	5226734400
50	5226720500	5226744500	5226734500
60	5226720600	5226744600	5226734600
75	5226720750	5226744750	5226734750
80	5226720800	5226744800	5226734800
100	5226721000	5226745000	5226735000
125	5226721250	5226745250	5226735250
150	5226721500	5226745500	5226735500

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
160	5226721600	5226745600	5226735600
200	5226722000	5226746000	5226736000
250	-	5226746500	5226736500
300	-	5226747000	5226737000
320	-	-	5226737200
350	-	-	5226737500

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 ... 60°C.

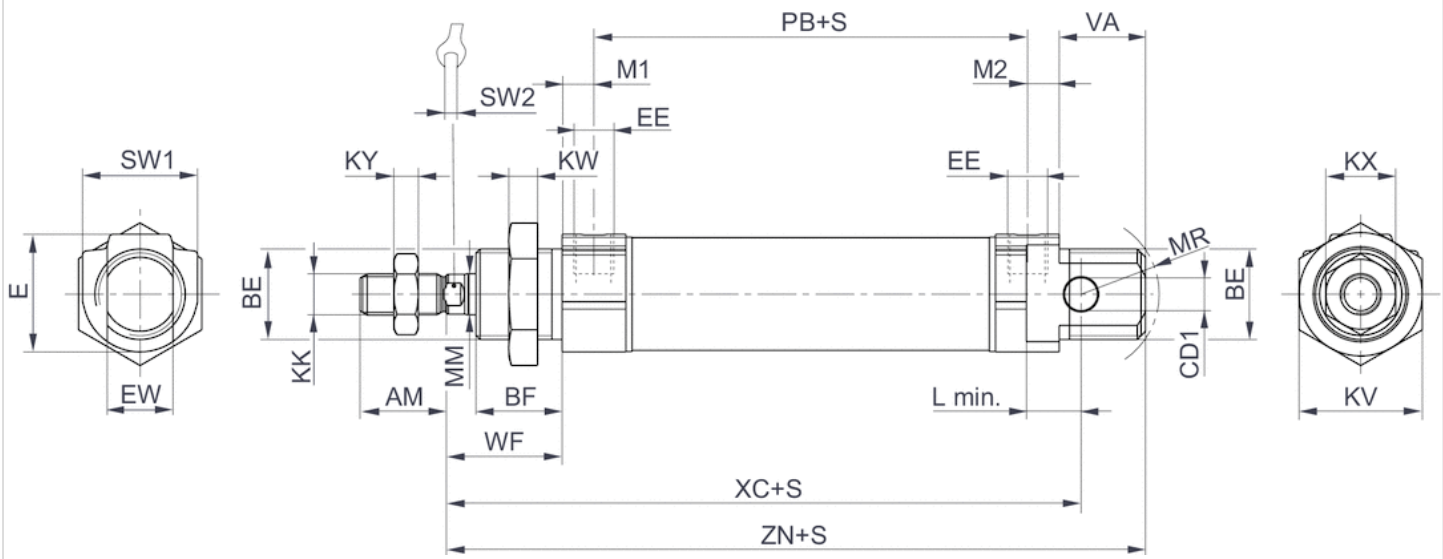
Technical information

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

Material	
Scraper	Polyurethane

Dimensions

Dimensions



S = stroke

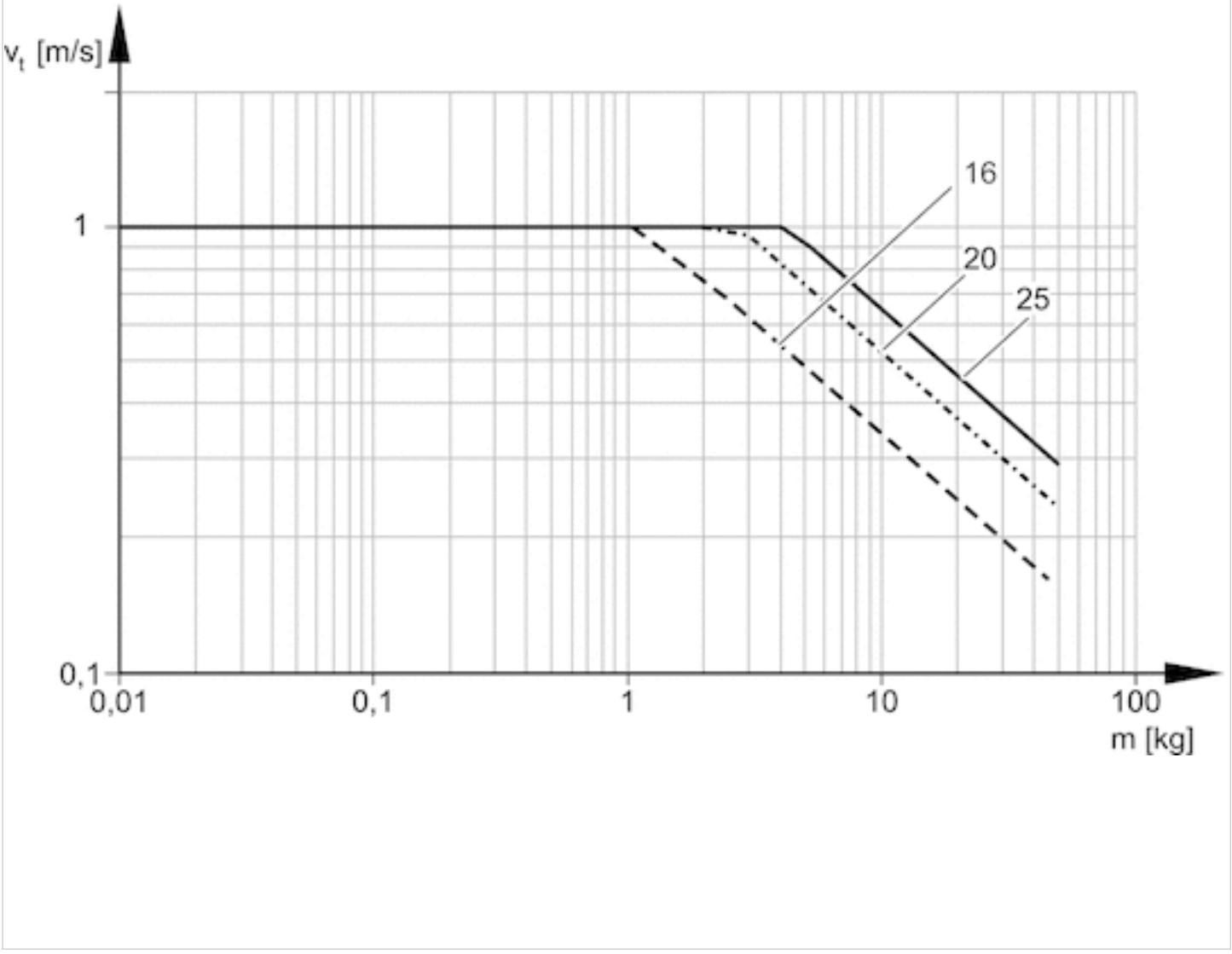
Dimensions

Piston Ø	AM–2	BE	BF	CD1 H10	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	G 1/8 t=8	16	M8	30	7
25 mm	22	M22x1,5	21	8	28.6	G 1/8 t=8	16	M10x1,25	30	7

Piston Ø	KX	KY	L min	MM f8	M1/M2	MR	PB ±1	VA	WF ±1,4	XC ±1	ZN ± 1,4	SW 1	SW 2
16 mm	10	3.2	8	6	4.8	16	47	17	22	82	95.5	19	5
20 mm	13	4	12	8	7.7	18	51	19	24	95	109.5	28	6
25 mm	17	6	12	10	7.7	19	55	21	28	104	119.5	28	8

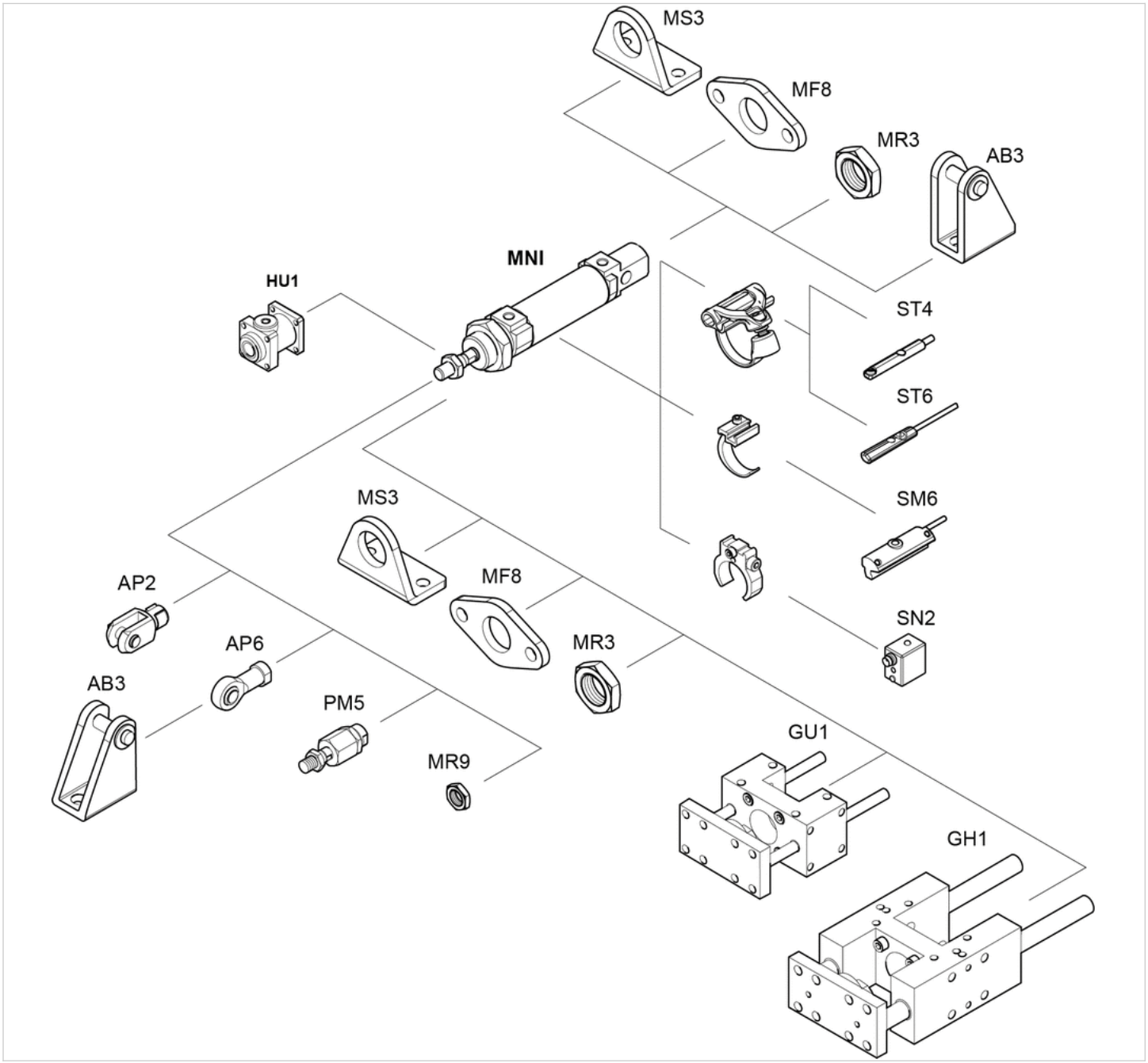
Diagrams

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.

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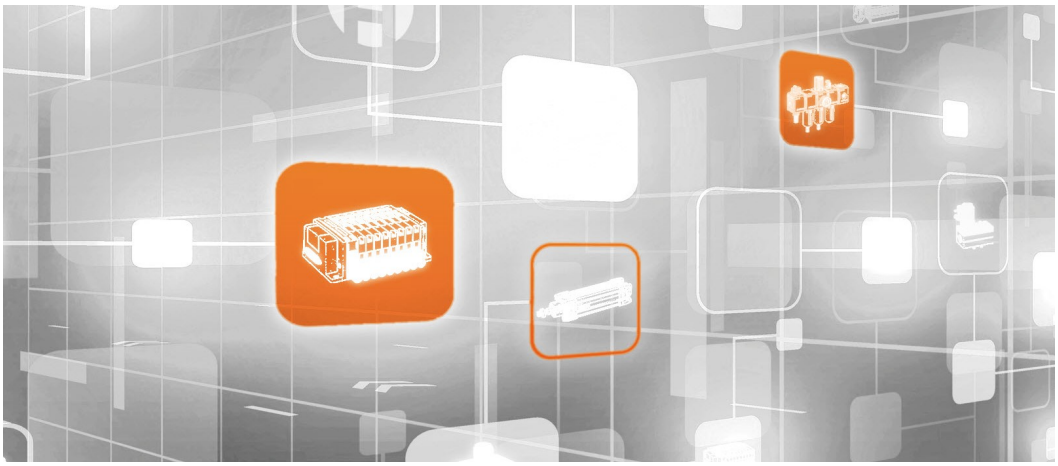

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