

Mini cylinder, Series MNI

- Ø 10-25 mm
- Ports M5 G 1/8
- double-acting
- with magnetic piston
- Cushioning elastic
- corrosion-protected
- with integrated rear eye
- Piston rod External thread
- Heat resistant



Standards	ISO 6432
Compressed air connection	Internal thread
Working pressure min./max.	1 ... 10 bar
Ambient temperature min./max.	-10 ... 120 °C
Medium temperature min./max.	-10 ... 120 °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	0822330401	0822331401	0822332401	0822333401	0822334401
25	0822330402	0822331402	0822332402	0822333402	0822334402
50	0822330403	0822331403	0822332403	0822333403	0822334403
80	0822330404	0822331404	0822332404	0822333404	0822334404
100	0822330405	0822331405	0822332405	0822333405	0822334405
125	-	0822331406	0822332406	0822333406	0822334406
160	0822330407	0822331407	0822332407	0822333407	0822334407
200	-	0822331413	0822332408	0822333408	0822334408
250	0822330410	0822331408	R412000707	0822333409	0822334409
320	-	-	R412009449	0822333410	0822334410
400	-	-	0822332409	-	0822334411
500	-	-	-	0822333416	0822334412

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	49 N	71 N	127 N	198 N	309 N
Impact energy	0,04 J	0,07 J	0,14 J	0,23 J	0,35 J
Weight 0 mm stroke	0,042 kg	0,073 kg	0,091 kg	0,149 kg	0,249 kg
Weight +10 mm stroke	0,002 kg	0,005 kg	0,006 kg	0,009 kg	0,013 kg
Stroke max.	250 mm	600 mm	800 mm	1100 mm	1300 mm

Technical information

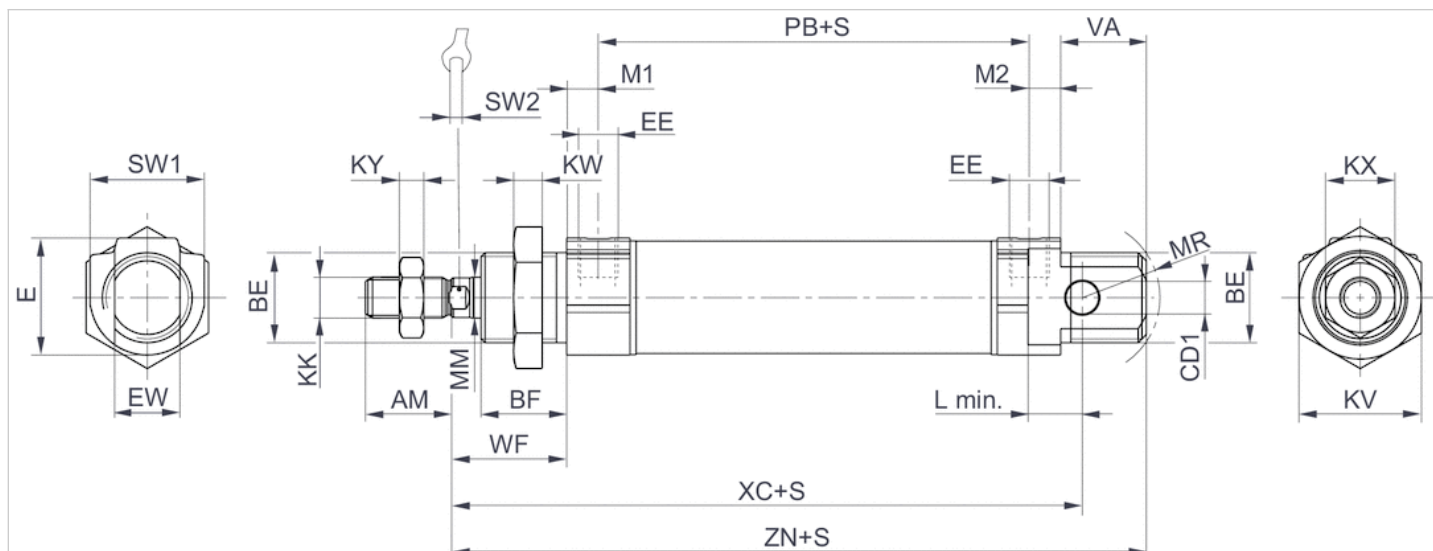
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).
Clamping piece for magnetic field sensor necessary

Technical information

Material	
Cylinder tube	Stainless steel
Piston rod	Stainless steel
Piston	Brass, Aluminum
Front cover	Aluminum, anodized
End cover	Aluminum, anodized
Seal	Fluorocaoutchouc
Nut for cylinder mounting	Steel, galvanized
Nut for piston rod	Steel, galvanized
Scraper	Fluorocaoutchouc

Dimensions

Dimensions



S = stroke

Dimensions

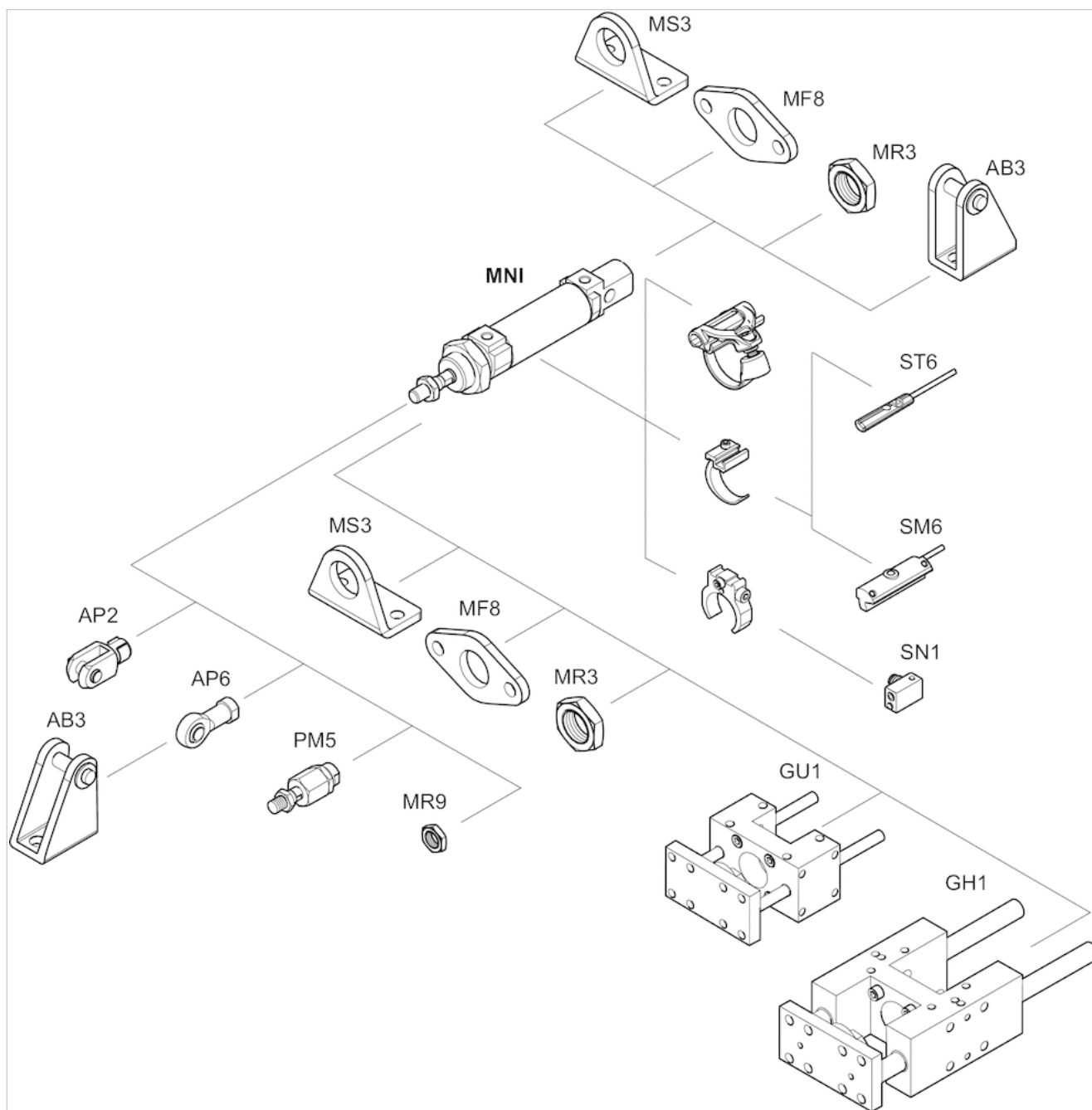
Piston Ø	AM-2	BE	BF	CD H9	E	EE	EW d13	KK	KV	KW	KX	KY	L min
10 mm	12	M12x1,25	11	4	14	M5 t=5	8	M4	17	5.5	7	2.2	6
12 mm	16	M16x1,5	16	6	19	M5 t=5	12	M6	22	6	10	3.2	8
16 mm	16	M16x1,5	16	6	19	M5 t=5	12	M6	22	6	10	3.2	8
20 mm	20	M22x1,5	18	8	28	G1/8 t=8	16	M8	30	7	13	4	12
25 mm	22	M22x1,5	21	8	28	G1/8 t=8	16	M10x1,25	30	7	17	6	12

Piston Ø	MM f8	M1/M2	MR	PB ±1	VA	WF ±1,4	XC ±1	ZN ± 1,4	SW 1	SW 2
10 mm	4	4.8	12	47	11	16	74	83.5	13	3
12 mm	6	4.8	16	41	16	22	75	88.5	19	5
16 mm	6	4.8	16	47	17	22	82	95.5	19	5
20 mm	8	7	18	51	19	24	95	109.5	28	6
25 mm	10	7	19	55	21	28	104	119.5	28	8

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.