

Mini cylinder, Series MNI

- ISO 6432
- Ø 10-25 mm
- Ports M5 G 1/8
- Single-acting, retracted without pressure
- with magnetic piston
- Cushioning elastic
- with integrated rear eye
- Piston rod External thread

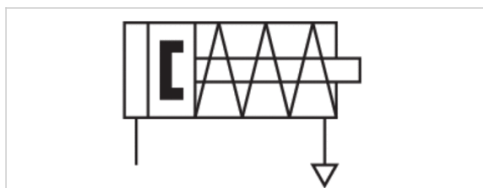


Standards

Compressed air connection
Working pressure min./max.
Ambient temperature min./max.
Medium temperature min./max.
Medium
Max. particle size
Oil content of compressed air
Pressure for determining piston forces
Weight

ISO 6432

Internal thread
2 ... 10 bar
-25 ... 80 °C
-25 ... 80 °C
Compressed air
50 µm
0 ... 5 mg/m³
6.3 bar
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	0822430301	0822431301	0822432301	0822433301	0822434301
25	0822430302	0822431302	0822432302	0822433302	0822434302
40	0822430303	R480609773	R412009548	R480609780	R480609781
50	-	0822431303	0822432303	0822433303	0822434303

Technical data

Piston Ø	10 mm	12 mm	16 mm	20 mm
Extracting piston force	41 N	60,2 N	102,2 N	174,6 N
Spring force min. - max.	5,2 ... 8,4 N	6,7 ... 11 N	14,2 ... 24,4 N	12,8 ... 23,4 N
Impact energy	0,04 J	0,07 J	0,14 J	0,23 J
Weight 0 mm stroke	0,03 kg	0,06 kg	0,075 kg	0,14 kg

Piston Ø	10 mm	12 mm	16 mm	20 mm
Weight +10 mm stroke	0,005 kg	0,006 kg	0,007 kg	0,016 kg
Stroke max.	40 mm	50 mm	50 mm	50 mm

Piston Ø	25 mm
Extracting piston force	279,6 N
Spring force min. - max.	19,2 ... 29,4 N
Impact energy	0,35 J
Weight 0 mm stroke	0,23 kg
Weight +10 mm stroke	0,024 kg
Stroke max.	50 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).

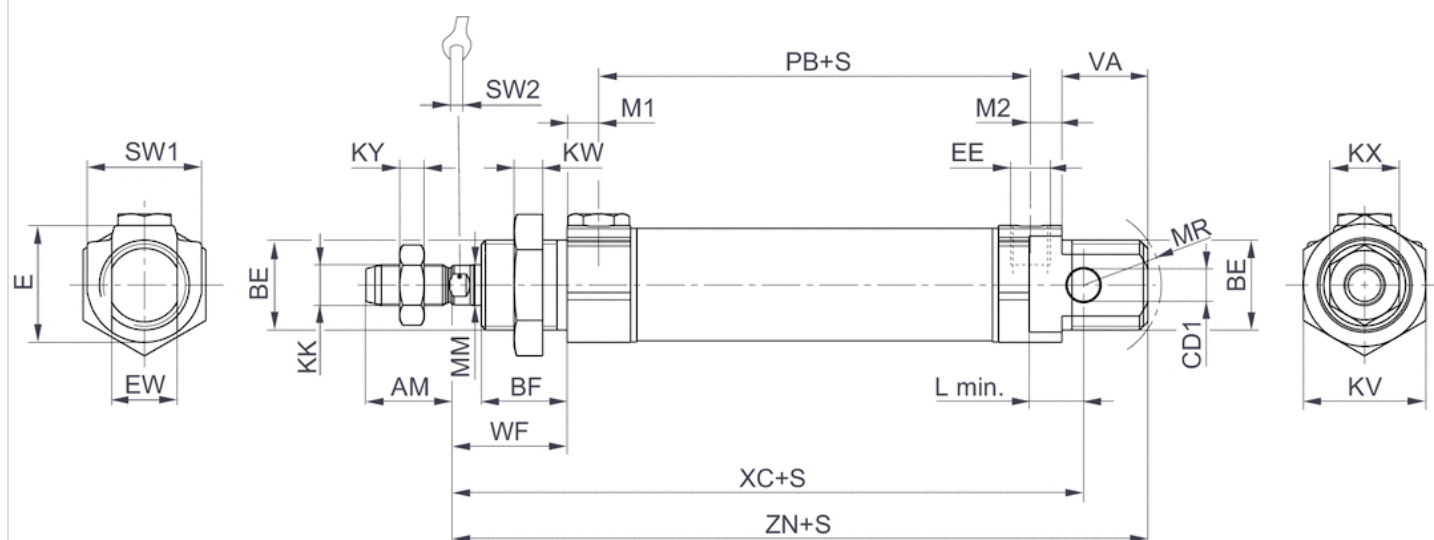
Clamping piece for magnetic field sensor necessary

Technical information

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

Dimensions

Dimensions



S = stroke

X = vent screw

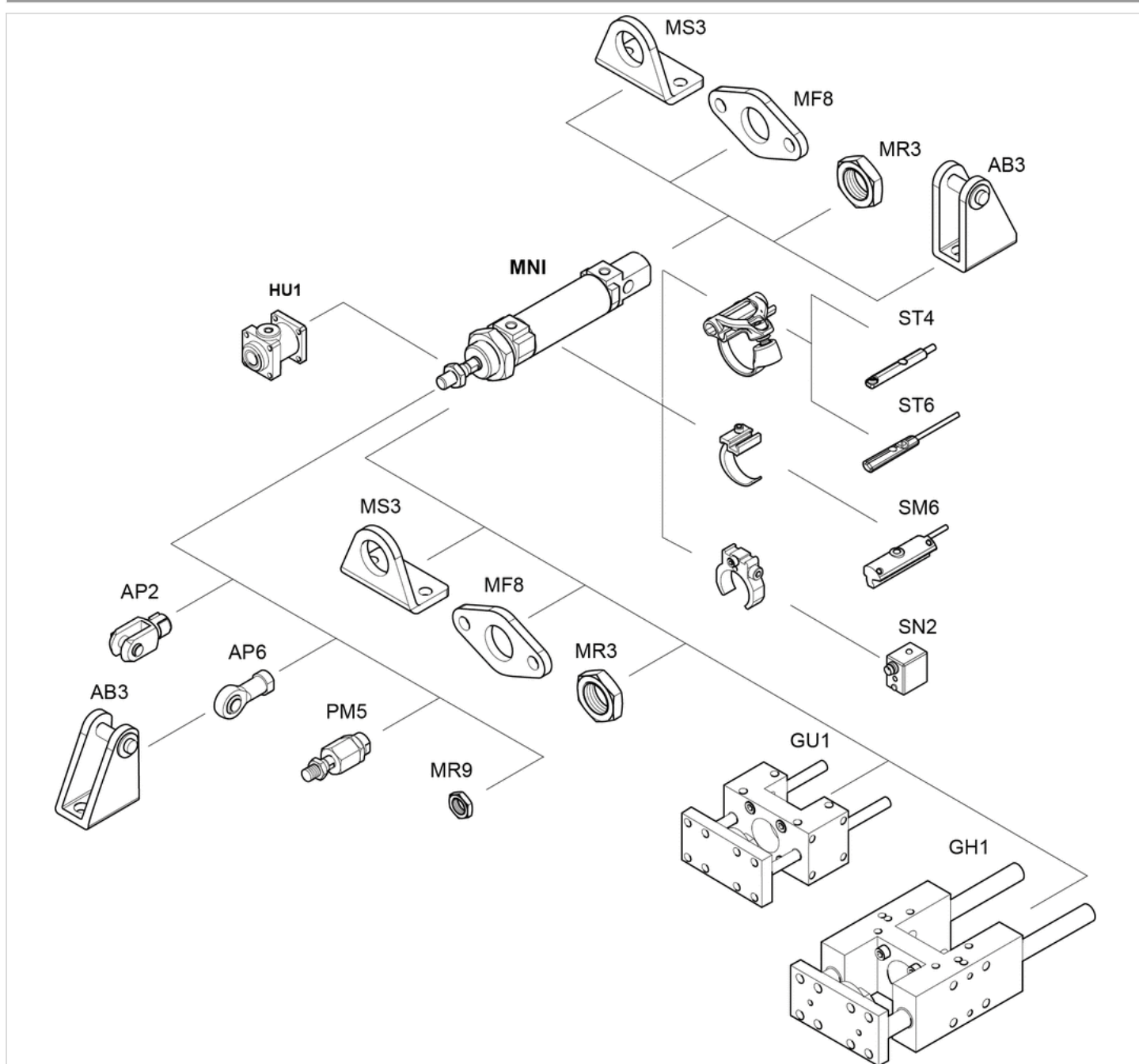
Dimensions

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

Piston Ø	KY	L min	MM f8	M1/M2	MR	PB ±1	VA	WF ±1,4	XC ±1	ZN ± 1,4	SW 1	SW 2
10 mm	2.2	6	4	4.8	12	47	11	16	74	83.5	13	3
12 mm	3.2	8	6	4.8	16	41	16	22	75	88.5	19	5
16 mm	3.2	8	6	4.8	16	47	17	22	82	95.5	19	5
20 mm	4	12	8	7	18	51	19	24	95	109.5	28	6
25 mm	6	12	10	7	19	55	21	28	104	119.5	28	8

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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