

Mini cylinder, Series MNI

- ISO 6432
- Ø 10-25 mm
- Ports M5 G 1/8
- double-acting
- with magnetic piston
- Cushioning elastic
- 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	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 5	-	-	-	5226644050	-
10	5226600100	5226610100	5226620100	5226644100	5226634100
15	5226600150	5226610150	5226620150	-	5226634150
18	-	-	5226620180	-	-
20	5226600200	5226610200	5226620200	5226644200	5226634200
25	5226600250	5226610250	5226620250	5226644250	5226634250
30	5226600300	5226610300	5226620300	5226644300	5226634300
35	-	5226610350	5226620350	5226644350	5226634350
40	5226600400	5226610400	5226620400	5226644400	5226634400
45	-	-	5226620450	-	-
50	5226600500	5226610500	5226620500	5226644500	5226634500
55	-	-	5226620550	-	5226634550
60	5226600600	5226610600	5226620600	-	5226634600

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65	5226600650	5226610650	-	-	5226634650
70	5226600700	5226610700	5226620700	-	5226634700
75	5226600750	5226610750	5226620750	5226644750	5226634750
80	5226600800	5226610800	5226620800	5226644800	5226634800
90	-	-	5226620900	-	5226634900
100	5226601000	5226611000	5226621000	5226645000	5226635000
110	-	-	5226621100	-	5226635100
115	-	-	5226621150	-	-
120	-	-	5226621200	-	5226635200
125	5226601250	5226611250	5226621250	5226645250	5226635250
130	-	-	-	-	5226635300
135	-	-	5226621350	-	-
140	-	-	-	-	5226635400
150	-	5226611500	5226621500	-	5226635500
160	5226601600	5226611600	5226621600	5226645600	5226635600
170	-	-	5226621700	-	5226635700
175	-	5226611750	5226621750	-	5226635750
180	-	-	5226621800	-	5226635800
190	-	-	5226621900	-	-
200	5226602000	5226612000	5226622000	-	5226636000
210	-	-	-	-	5226636100
220	-	-	5226622200	-	5226636200
225	-	-	-	-	5226636250
235	-	-	-	-	5226636350
240	-	-	5226622400	-	-
250	-	5226612500	5226622500	-	5226636500
260	-	-	-	-	5226636600
265	-	-	5226622650	-	-
270	-	-	5226622700	-	5226636700
290	-	-	-	-	5226636900
300	-	-	5226623000	5226647000	5226637000
320	-	5226613200	-	-	5226637200
335	-	-	-	-	5226637350
350	-	-	5226623500	-	5226637500
400	-	5226618020	5226628020	-	5226639000
420	-	-	-	-	5226639050
425	-	-	-	-	5226639080
440	-	-	-	-	5226639070
450	-	-	-	-	5226639020
480	-	5226618010	-	-	-
490	-	-	5226628000	-	5226639010
495	-	-	5226628010	-	-
500	-	-	-	-	5226639030
550	-	-	5226628040	-	5226639090

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560	-	-	-	-	5226639040
600	-	-	-	-	5226639190
620	-	-	-	-	5226639060
850	-	-	5226628030	-	-

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).

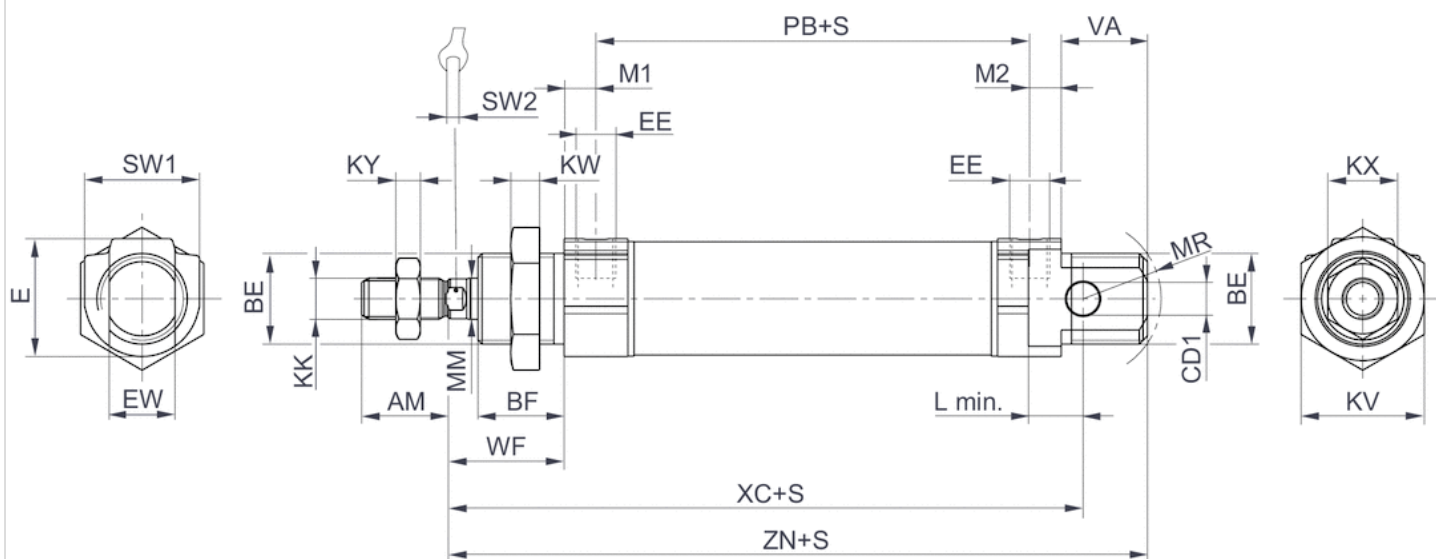
Clamping piece for magnetic field sensor necessary

Technical information

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

Dimensions

Dimensions



S = stroke

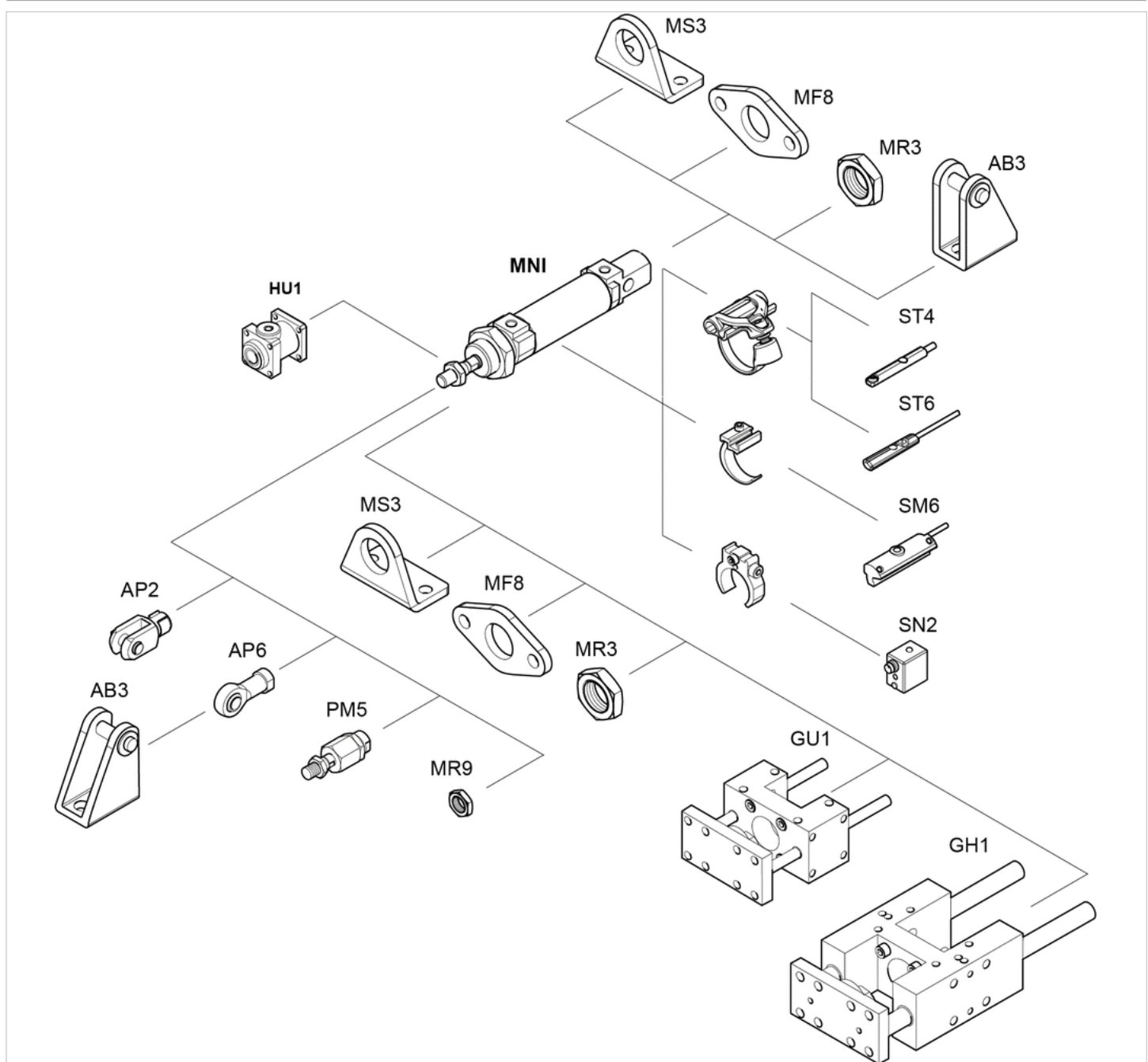
Dimensions

Piston Ø	AM-2	BE	BF	CD1 H10	E	EE t = depth of thread	EW d13	KK	KV	KW
10 mm	12	M12x1,25	11	4	14	M5 t=5	8	M4	17	5.5
12 mm	16	M16x1,5	16	6	19	M5 t=5	12	M6	22	6
16 mm	16	M16x1,5	16	6	19	M5 t=5	12	M6	22	6
25 mm	22	M22x1,5	21	8	28.6	G 1/8 t=8	16	M10x1,25	30	7
20 mm	20	M22x1,5	18	8	28.6	G 1/8 t=8	16	M8	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
10 mm	7	2.2	6	4	4.8	12	37	11	16	64	73.5	13	3
12 mm	10	3.2	9	6	4.8	16	41	16	22	75	88.5	19	5
16 mm	10	3.2	9	6	4.8	16	47	17	22	82	95.5	19	5
25 mm	17	6	12	10	7.7	19	55	21	28	104	119.5	28	8
20 mm	13	4	12	8	7.7	18	51	19	24	95	109.5	28	6

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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