

Mini cylinder, Series MNI

- ISO 6432
- Ø 0.394-0.984 inch
- 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.	15 ... 145 psi
Ambient temperature min./max.	-13 ... 176 °F
Medium temperature min./max.	-13 ... 176 °F
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Pressure for determining piston forces	91.35 psi
Weight	See table below



Technical data

Piston Ø Piston rod thread Ports Cylinder outer thread	0.394 inch M4 M5 M12x1,25	0.472 inch M6 M5 M16x1,5	0.63 inch M6 M5 M16x1,5	0.787 inch M8 G 1/8 M22x1,5	0.984 inch M10x1,25 G 1/8 M22x1,5
Stroke 0.197	-	-	-	5226644050	-
0.394	5226600100	5226610100	5226620100	5226644100	5226634100
0.59	5226600150	5226610150	5226620150	-	5226634150
0.709	-	-	5226620180	-	-
0.787	5226600200	5226610200	5226620200	5226644200	5226634200
0.984	5226600250	5226610250	5226620250	5226644250	5226634250
1.18	5226600300	5226610300	5226620300	5226644300	5226634300
1.38	-	5226610350	5226620350	5226644350	5226634350
1.57	5226600400	5226610400	5226620400	5226644400	5226634400
1.77	-	-	5226620450	-	-
1.97	5226600500	5226610500	5226620500	5226644500	5226634500
2.17	-	-	5226620550	-	5226634550
2.36	5226600600	5226610600	5226620600	-	5226634600
2.56	5226600650	5226610650	-	-	5226634650

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2.76	5226600700	5226610700	5226620700	-	5226634700
2.95	5226600750	5226610750	5226620750	5226644750	5226634750
3.15	5226600800	5226610800	5226620800	5226644800	5226634800
3.54	-	-	5226620900	-	5226634900
3.94	5226601000	5226611000	5226621000	5226645000	5226635000
4.33	-	-	5226621100	-	5226635100
4.53	-	-	5226621150	-	-
4.72	-	-	5226621200	-	5226635200
4.92	5226601250	5226611250	5226621250	5226645250	5226635250
5.12	-	-	-	-	5226635300
5.31	-	-	5226621350	-	-
5.51	-	-	-	-	5226635400
5.91	-	5226611500	5226621500	-	5226635500
6.3	5226601600	5226611600	5226621600	5226645600	5226635600
6.69	-	-	5226621700	-	5226635700
6.89	-	5226611750	5226621750	-	5226635750
7.09	-	-	5226621800	-	5226635800
7.48	-	-	5226621900	-	-
7.87	5226602000	5226612000	5226622000	-	5226636000
8.27	-	-	-	-	5226636100
8.66	-	-	5226622200	-	5226636200
8.86	-	-	-	-	5226636250
9.25	-	-	-	-	5226636350
9.45	-	-	5226622400	-	-
9.84	-	5226612500	5226622500	-	5226636500
10.24	-	-	-	-	5226636600
10.43	-	-	5226622650	-	-
10.63	-	-	5226622700	-	5226636700
11.42	-	-	-	-	5226636900
11.81	-	-	5226623000	5226647000	5226637000
12.6	-	5226613200	-	-	5226637200
13.19	-	-	-	-	5226637350
13.78	-	-	5226623500	-	5226637500
15.75	-	5226618020	5226628020	-	5226639000
16.54	-	-	-	-	5226639050
16.73	-	-	-	-	5226639080
17.32	-	-	-	-	5226639070
17.72	-	-	-	-	5226639020
18.9	-	5226618010	-	-	-
19.29	-	-	5226628000	-	5226639010
19.49	-	-	5226628010	-	-
19.68	-	-	-	-	5226639030
21.65	-	-	5226628040	-	5226639090
22.05	-	-	-	-	5226639040
23.62	-	-	-	-	5226639190

Piston Ø Piston rod thread Ports Cylinder outer thread	0.394 inch M4 M5 M12x1,25	0.472 inch M6 M5 M16x1,5	0.63 inch M6 M5 M16x1,5	0.787 inch M8 G 1/8 M22x1,5	0.984 inch M10x1,25 G 1/8 M22x1,5
24.41	-	-	-	-	5226639060
33.46	-	-	5226628030	-	-

Technical data

Piston Ø	0.394 inch	0.472 inch	0.63 inch	0.787 inch	0.984 inch
Retracting piston force	9.44 lbf	11.91 lbf	24.5 lbf	37.32 lbf	58.45 lbf
Extracting piston force	11.02 lbf	15.96 lbf	28.55 lbf	44.51 lbf	69.46 lbf
Impact energy	0.03 in.lbs	0.052 in.lbs	0.103 in.lbs	0.17 in.lbs	0.258 in.lbs
Weight 0 mm stroke	0.092 lbs	0.161 lbs	0.201 lbs	0.328 lbs	0.549 lbs
Weight +10 mm stroke	0.005 lbs	0.01 lbs	0.012 lbs	0.02 lbs	0.029 lbs
Stroke max.	9.84 inch	23.62 inch	31.49 inch	43.3 inch	51.18 inch

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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).

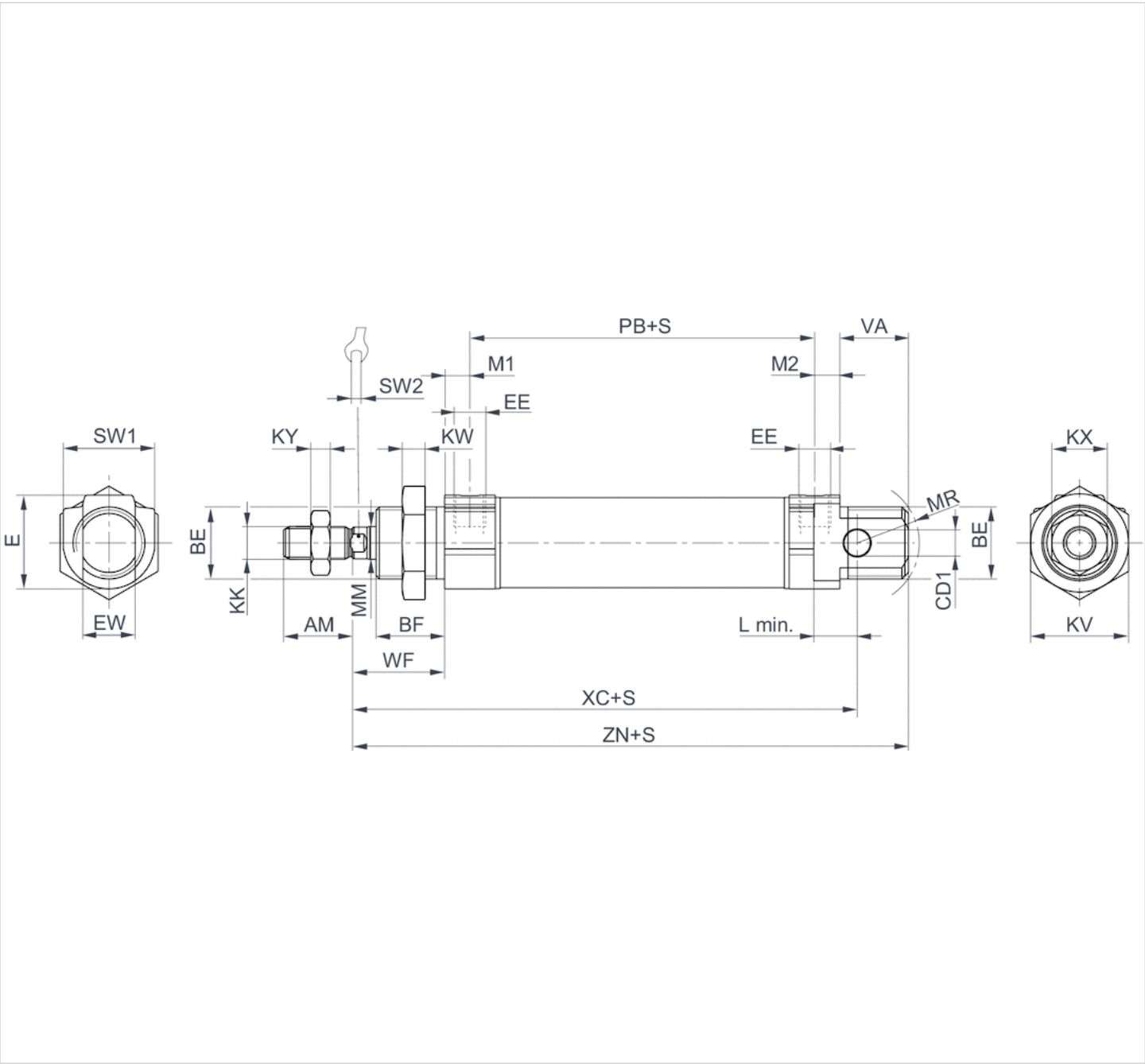
Clamping piece for magnetic field sensor necessary

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

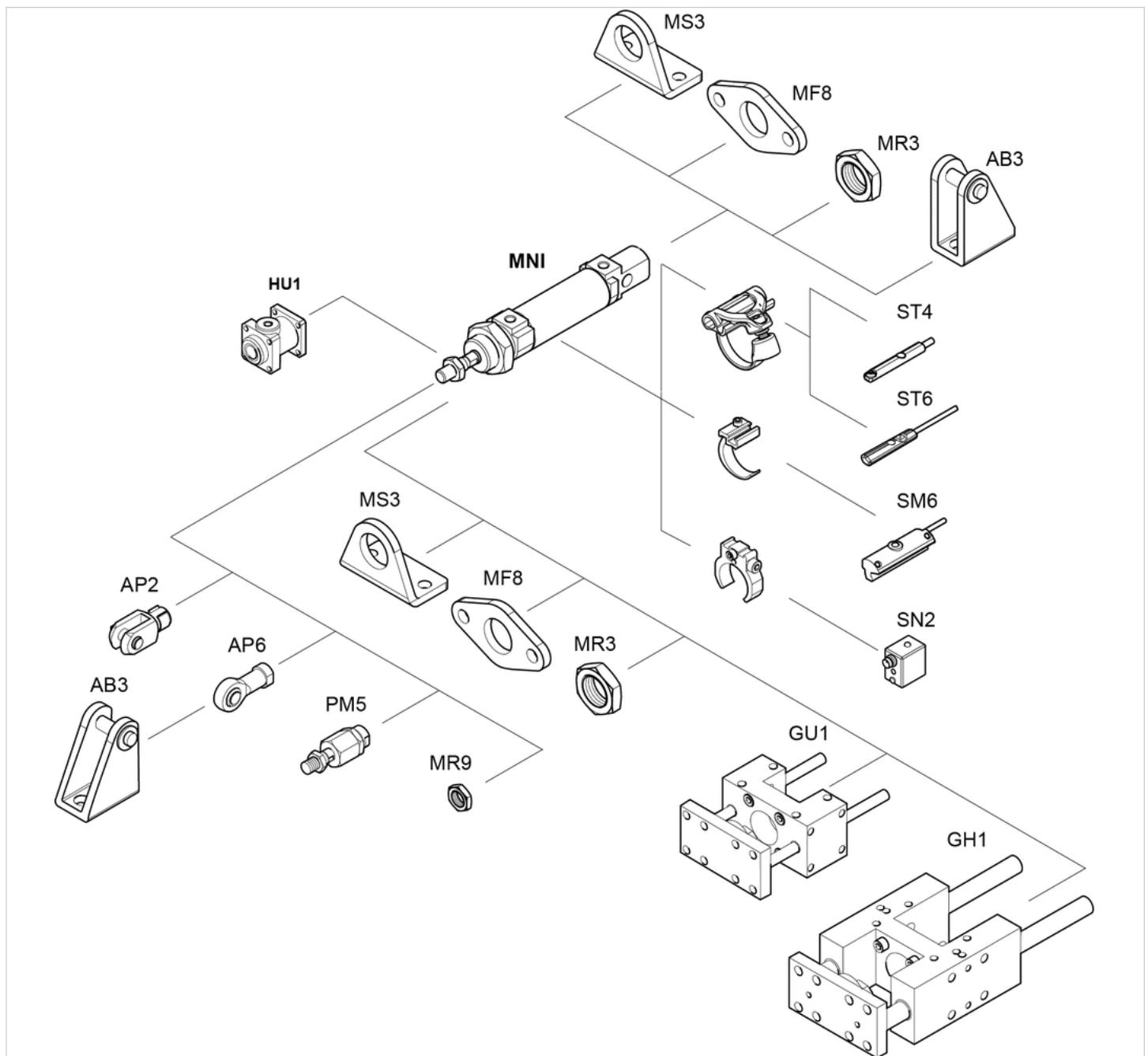
Piston Ø	AM-2	BE	BF	CD1 H10	E	EE t = depth of thread	EW d13	KK	KV
0.394 inch	12	M12x1,25	11	4	14	M5 t=5	8	M4	17
0.472 inch	16	M16x1,5	16	6	19	M5 t=5	12	M6	22
0.63 inch	16	M16x1,5	16	6	19	M5 t=5	12	M6	22
0.787 inch	20	M22x1,5	18	8	28.6	G 1/8 t=8	16	M8	30
0.984 inch	22	M22x1,5	21	8	28.6	G 1/8 t=8	16	M10x1,25	30

Piston Ø	KW	KX	KY	L min	MM f8	M1/M2	MR	PB ±1	VA	WF ±1,4	XC ±1	ZN ± 1,4	SW 1
0.394 inch	5.5	7	2.2	6	4	4.8	12	37	11	16	64	73.5	13
0.472 inch	6	10	3.2	9	6	4.8	16	41	16	22	75	88.5	19
0.63 inch	6	10	3.2	9	6	4.8	16	47	17	22	82	95.5	19
0.787 inch	7	13	4	12	8	7.7	18	51	19	24	95	109.5	28
0.984 inch	7	17	6	12	10	7.7	19	55	21	28	104	119.5	28

Piston Ø	SW 2
0.394 inch	3
0.472 inch	5
0.63 inch	5
0.787 inch	6
0.984 inch	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.