

Mini cylinder, Series MNI

- ISO 6432
- Ø 0.394-0.984 inch
- Ports M5 G 1/8
- double-acting
- with magnetic piston
- Cushioning elastic
- with integrated rear eye
- Piston rod External thread
- ATEX optional



Standards	ISO 6432
Certificates	ATEX optional
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 Piston rod Ø Cylinder outer thread	0.394 inch M4 M5 0.16 inch M12x1,25	0.472 inch M6 M5 0.24 inch M16x1,5	0.63 inch M6 M5 0.24 inch M16x1,5	0.787 inch M8 G 1/8 0.31 inch M22x1,5	0.984 inch M10x1,25 G 1/8 0.39 inch M22x1,5
Stroke 0.394	0822330201	0822331201	0822332201	0822333201	0822334201
0.984	0822330202	0822331202	0822332202	0822333202	0822334202
1.97	0822330203	0822331203	0822332203	0822333203	0822334203
3.15	0822330204	0822331204	0822332204	0822333204	0822334204
3.94	0822330205	0822331205	0822332205	0822333205	0822334205
4.92	0822330215	0822331206	0822332206	0822333206	0822334206
6.3	0822330209	0822331207	0822332207	0822333207	0822334207
7.87	0822330235	0822331218	0822332208	0822333208	0822334208
9.84	0822330219	0822331219	0822332209	0822333209	0822334209
12.6	-	0822331223	0822332210	0822333210	0822334210
15.75	-	0822331217	0822332219	0822333214	0822334211
19.68	-	0822331233	0822332220	0822333220	0822334212

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

ATEX-certified cylinders with identification II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135°C Db_X can be generated in the Internet configurator.

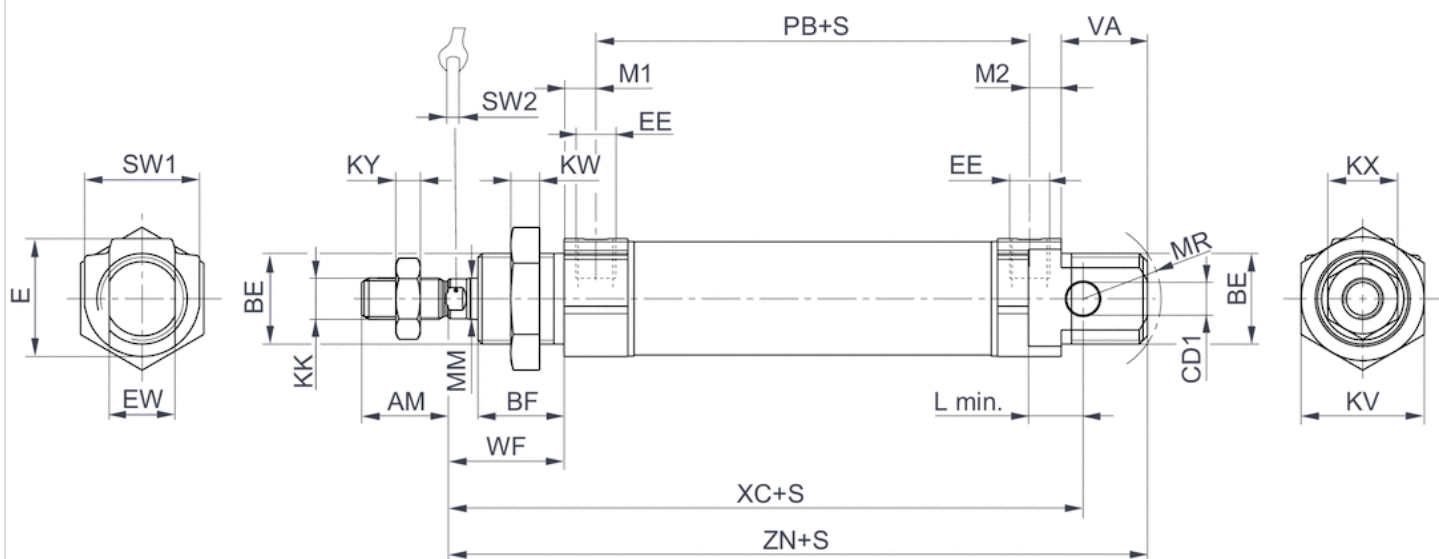
The operating temperature range for ATEX-certified cylinders is -20°C ... 60°C.

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
Scraper	Polyurethane

Dimensions

Dimensions



S = stroke

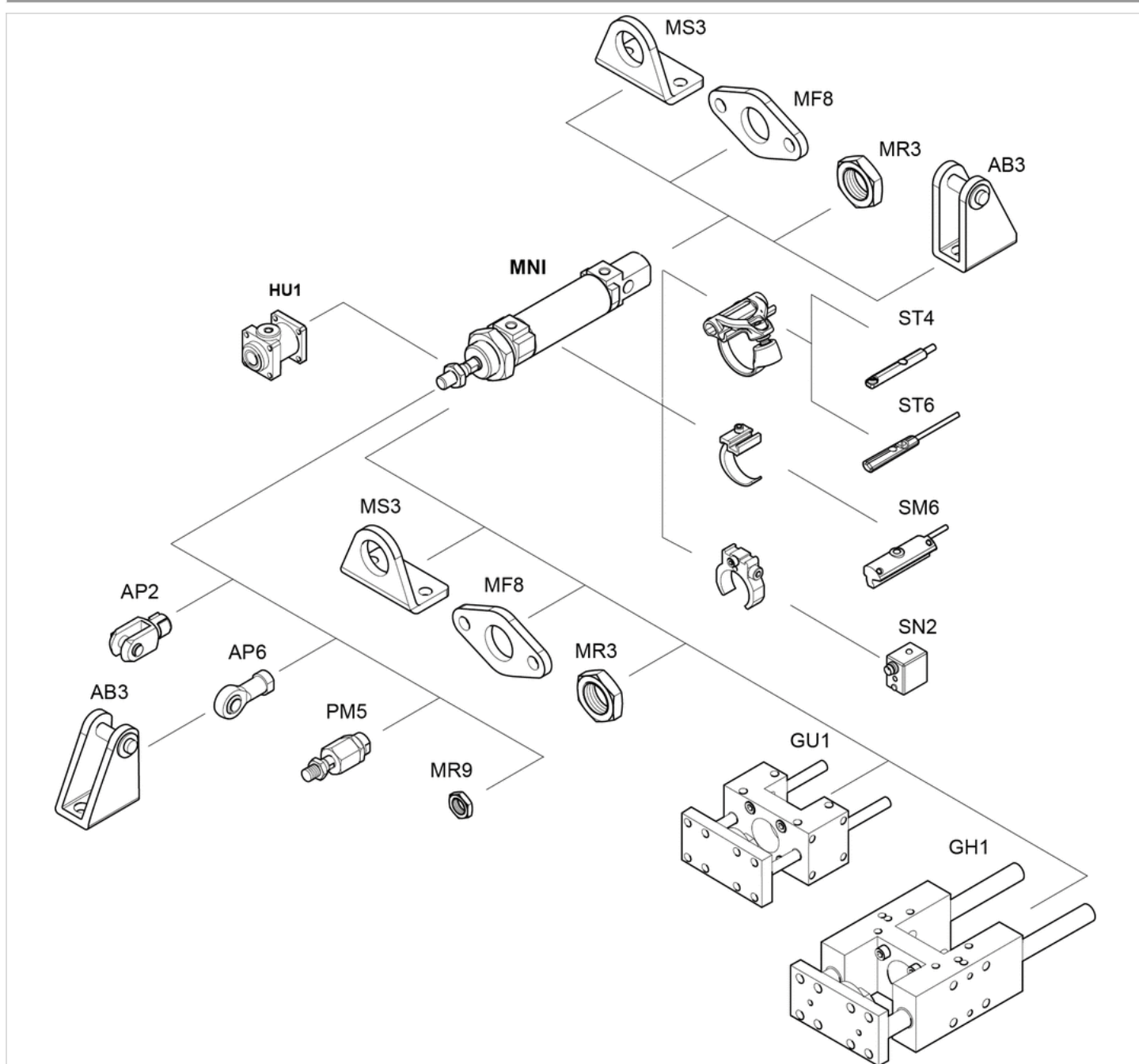
Dimensions

Piston Ø	AM-2	BE	BF	CD H9	E	EE t = depth of thread	EW d13	KK	KV	KW
0.394 inch	12	M12x1,25	11	4	14	M5 t=5	8	M4	17	5.5
0.472 inch	16	M16x1,5	16	6	19	M5 t=5	12	M6	22	6
0.63 inch	16	M16x1,5	16	6	19	M5 t=5	12	M6	22	6
0.787 inch	20	M22x1,5	18	8	28	G 1/8 t=8	16	M8	30	7
0.984 inch	22	M22x1,5	21	8	28	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
0.394 inch	7	2.2	6	4	4.8	12	47	11	16	74 1)	83.5	13	3
0.472 inch	10	3.2	8	6	4.8	16	41	16	22	75	88.5	19	5
0.63 inch	10	3.2	8	6	4.8	16	47	17	22	82	95.5	19	5
0.787 inch	13	4	12	8	7	18	51	19	24	95	109.5	28	6
0.984 inch	17	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.