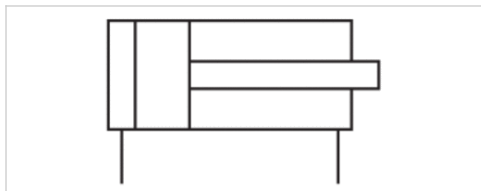


Mini cylinder, Series MNI

- ISO 6432
- Ø 10-25 mm
- Ports M5 G 1/8
- double-acting
- 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.	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 10	0822030201	0822031201	0822032201	0822033201	0822034201
25	0822030202	0822031202	0822032202	0822033202	0822034202
50	0822030203	0822031203	0822032203	0822033203	0822034203
80	0822030204	0822031204	0822032204	0822033204	0822034204
100	0822030205	0822031205	0822032205	0822033205	0822034205
125	0822030211	0822031206	0822032206	0822033206	0822034206
160	0822030219	0822031207	0822032207	0822033207	0822034207
200	0822030222	0822031211	0822032208	0822033208	0822034208
250	0822030223	0822031221	0822032214	0822033209	0822034209
320	-	0822031226	0822032240	0822033210	0822034210
400	-	0822031214	0822032213	0822033240	0822034211
500	-	0822031250	0822032228	0822033221	0822034212

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	0,034 kg	0,063 kg	0,082 kg	0,135 kg	0,233 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).

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.

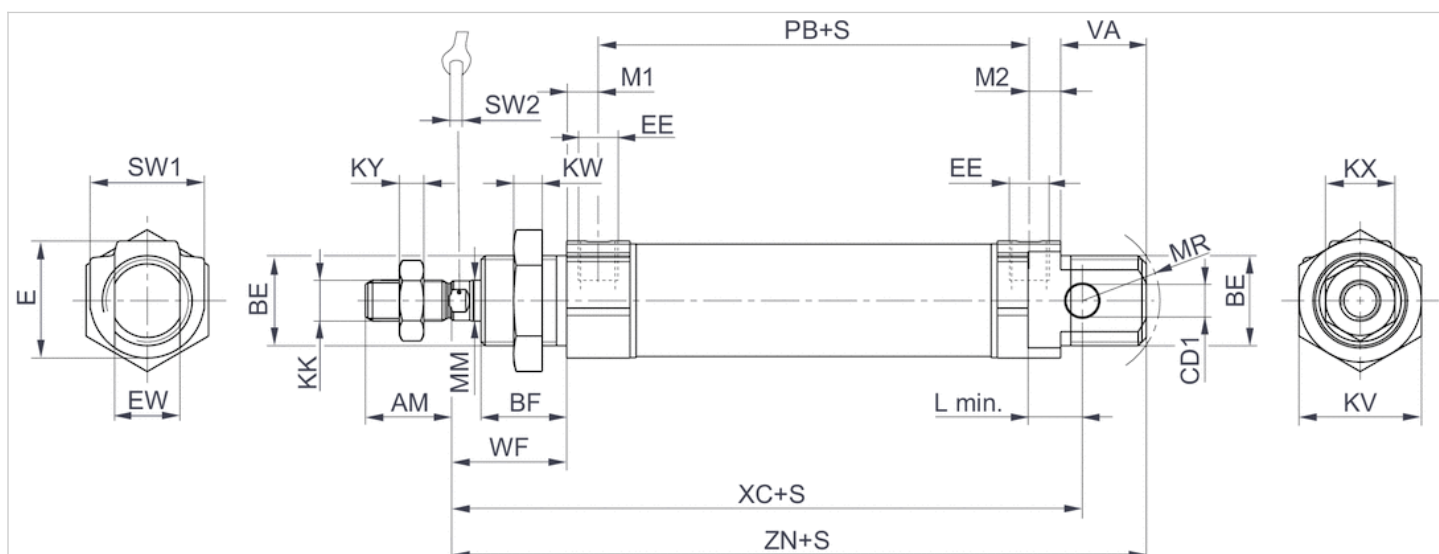
The operating temperature range for ATEX-certified cylinders is -20°C ... 60°C.

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

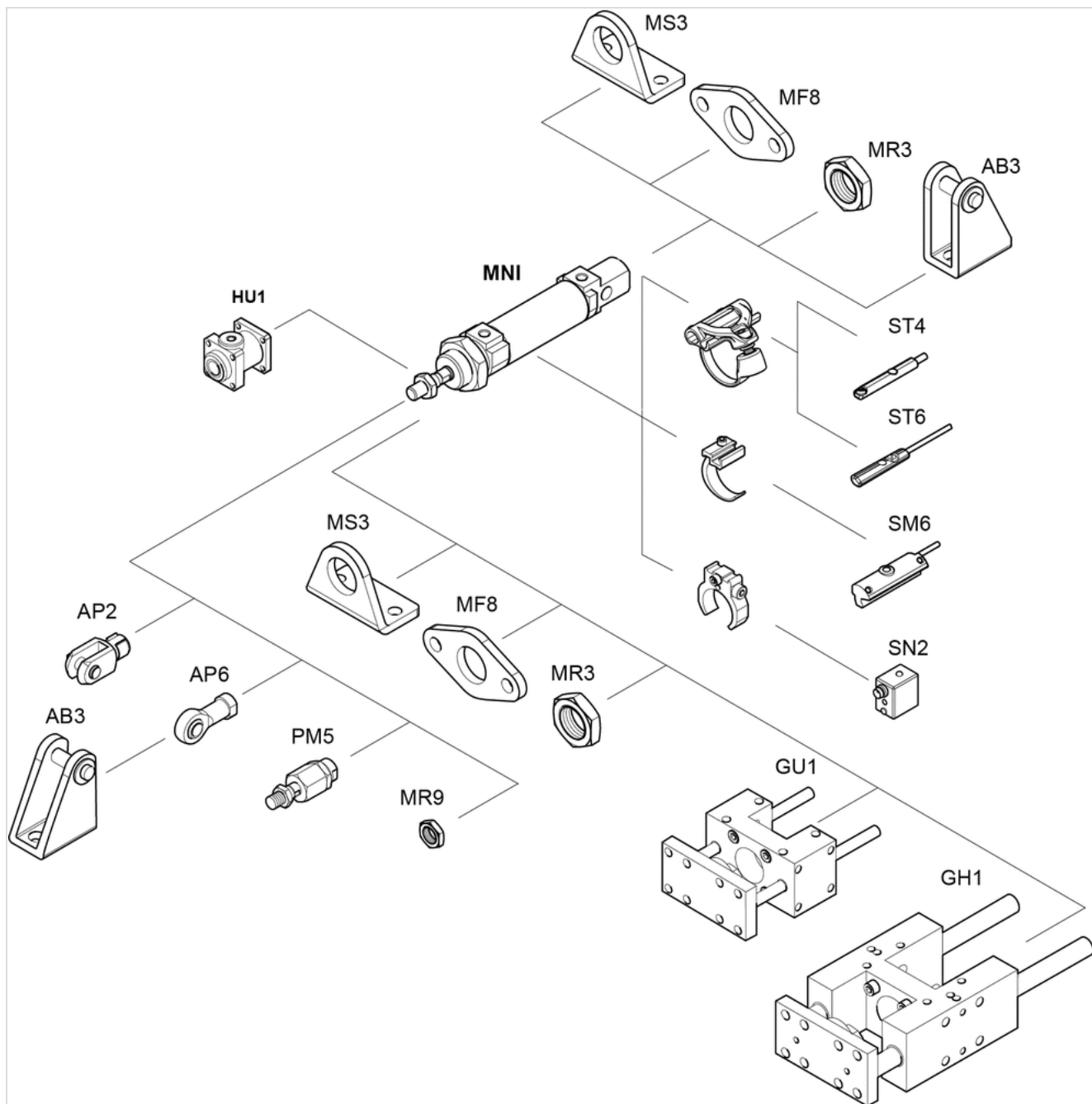
Dimensions

Piston Ø	AM -2	BE	BF	CD H9	E	EE t = depth of thread	EW d13	KK	KV	KW
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
20 mm	20	M22x1,5	18	8	28	G 1/8 t=8	16	M8	30	7
25 mm	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
10 mm	7	2.2	6	4	4.8	12	37	11	16	64	73.5	13	3
12 mm	10	3.2	8	6	4.8	16	41	16	22	75	88.5	19	5
16 mm	10	3.2	8	6	4.8	16	47	17	22	82	95.5	19	5
20 mm	13	4	12	8	7	18	51	19	24	95	109.5	28	6
25 mm	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.