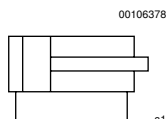


Piston rod cylinders ▶ Standard cylinders

Mini cylinder, Series MNI

- ▶ Ports: M5 - G 1/8 ▶ double-acting ▶ Cushioning: elastic ▶ corrosion-protected ▶ with integrated rear eye
- ▶ Piston rod: external thread ▶ ATEX optional



Standards	ISO 6432
Compressed air connection	Internal thread
Working pressure min./max.	1 bar / 10 bar
Ambient temperature min./max.	-25 °C / +80 °C
Medium temperature min./max.	-25 °C / +80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
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

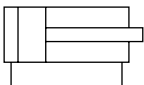
Technical Remarks

- 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, see chapter „Technical information“.
- ATEX-certified cylinders can be generated in the Internet configurator.
- ATEX ID: II 2G c IIB T4 II 2D c IP65 T125 °C X
- The operating temperature range for ATEX-certified cylinders is -20 °C ... 50 °C.

Piston Ø	[mm]	10	12	16	20	25
Retracting piston force	[N]	42	53	109	166	260
Extracting piston force	[N]	49	71	127	198	309
Impact energy	[J]	0.04	0.07	0.14	0.23	0.35
Weight	0 mm stroke	0.034	0.063	0.082	0.135	0.233
	+10 mm stroke	0.0024	0.0046	0.0055	0.009	0.013
Stroke max.	[mm]	250	600	800	1100	1300

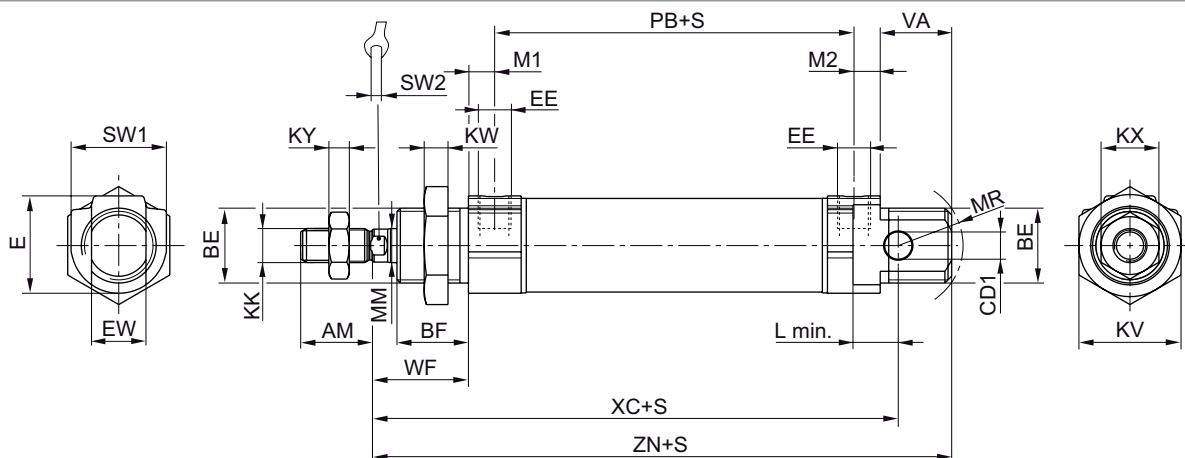
Mini cylinder, Series MNI

- ▶ Ports: M5 - G 1/8 ▶ double-acting ▶ Cushioning: elastic ▶ corrosion-protected ▶ with integrated rear eye
- ▶ Piston rod: external thread ▶ ATEX optional

	Piston Ø Piston rod thread Ports Piston rod Ø Cylinder outer thread	10 M4 M5 4 M12x1,25	12 M6 M5 6 M16x1,5	16 M6 M5 6 M16x1,5	20 M8 G 1/8 8 M22x1,5	25 M10x1,25 G 1/8 10 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

Other versions can be ordered from AVENTICS sales offices.

Dimensions



00106425_d

S = stroke

Piston Ø	AM -2	BE	BF	CD H9	E	EE	EW d13	KK	KV	KW	KX	KY
10	12	M12x1,25	11	4	14	M5 t=5	8	M4	17	5.5	7	2.2
12	16	M16x1,5	16	6	19	M5 t=5	12	M6	22	6	10	3.2
16	16	M16x1,5	16	6	19	M5 t=5	12	M6	22	6	10	3.2
20	20	M22x1,5	18	8	28	G 1/8 t=8	16	M8	30	7	13	4
25	22	M22x1,5	21	8	28	G 1/8 t=8	16	M10x1,25	30	7	17	6

Piston Ø	L min	MM f8	M1/M2	MR	PB ±1	VA	WF ±1,4	XC ±1	ZN ± 1,4	SW 1	SW 2
10	6	4	4.8	12	37	11	16	64	73.5	13	3
12	8	6	4.8	16	41	16	22	75	88.5	19	5
16	8	6	4.8	16	47	17	22	82	95.5	19	5
20	12	8	7	18	51	19	24	95	109.5	28	6
25	12	10	7	19	55	21	28	104	119.5	28	8

t = depth of thread