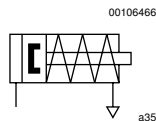


Piston rod cylinders ▶ Standard cylinders

Mini cylinder, Series MNI

▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
▶ corrosion-protected ▶ with integrated rear eye ▶ Piston rod: external thread



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“.
- Clamping piece for magnetic field sensor necessary

Piston Ø	[mm]	10	12	16	20	25
Extracting piston force	[N]	41	60.2	102.2	174.6	279.6
Spring force min. - max.	[N]	5.2 - 8.4	6.7 - 11	14.2 - 24.4	12.8 - 23.4	19.2 - 29.4
Impact energy	[J]	0.04	0.07	0.14	0.23	0.35
Weight	0 mm stroke	[kg]	0.03	0.06	0.075	0.14
	+10 mm stroke	[kg]	0.005	0.006	0.007	0.016
Stroke max.	[mm]	40	50	50	50	50

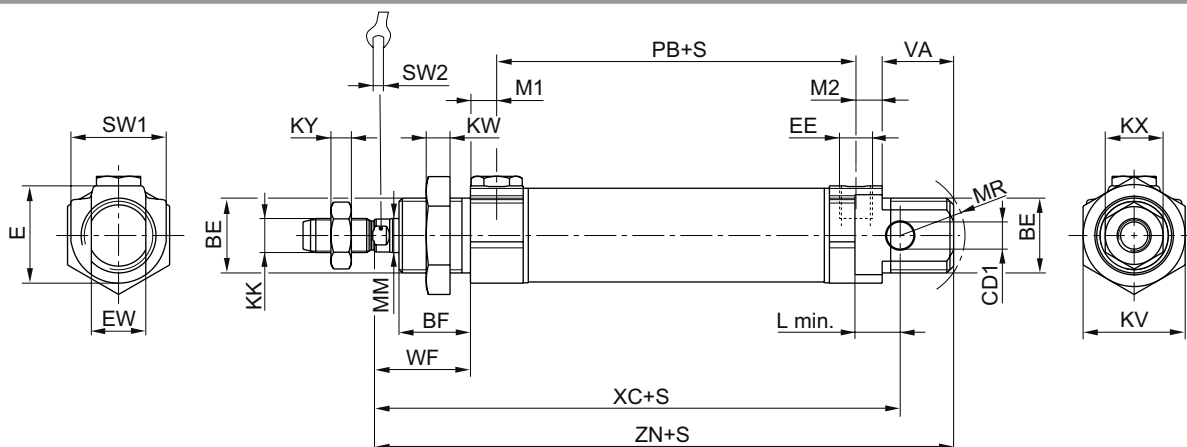
	Piston Ø	10	12	16	20	25
	Piston rod thread	M4	M6	M6	M8	M10x1,25
	Ports	M5	M5	M5	G 1/8	G 1/8
	Piston rod Ø	4	6	6	8	10
	Cylinder outer thread	M12x1,25	M16x1,5	M16x1,5	M22x1,5	M22x1,5
	Stroke 10	0822430301	0822431301	0822432301	0822433301	0822434301
	25	0822430302	0822431302	0822432302	0822433302	0822434302
	40	0822430303	R480609773	R412009548	R480609780	R480609781
	50	-	0822431303	0822432303	0822433303	0822434303

Other versions can be ordered from AVENTICS sales offices.

Mini cylinder, Series MNI

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
- ▶ corrosion-protected ▶ with integrated rear eye ▶ Piston rod: external thread

Dimensions



00106425_a

S = stroke
X = vent screw

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	G1/8 t=8	16	M8	30	7	13	4
25	22	M22x1,5	21	8	28	G1/8 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	47	11	16	74	83.5	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