

# Mini cylinder, Series MNI

- Ø 10 mm
- Ports M5
- 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 ... 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/m <sup>3</sup>
Pressure for determining piston forces	6.3 bar
Weight	See table

## Technical data

	10 mm	12 mm	16 mm	20 mm	25 mm
Piston Ø	10 mm	12 mm	16 mm	20 mm	25 mm
Piston rod thread	M4	M6	M6	M8	M10x1,25
Ports	M5	M5	M5	G 1/8	G 1/8
Piston rod Ø	4 mm	6 mm	6 mm	8 mm	10 mm
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

## 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).

Clamping piece for magnetic field sensor necessary

Weight +10 mm stroke	10 mm	12 mm	16 mm	20 mm	25 mm
Weight +10 mm stroke	0,005 kg	0,006 kg	0,007 kg	0,016 kg	0,016 kg
Stroke max.	40 mm	50 mm	50 mm	50 mm	50 mm

Piston Ø	25 mm
Extracting piston force	279,6 N
Spring force min. - max.	19,2 ... 29,4 N

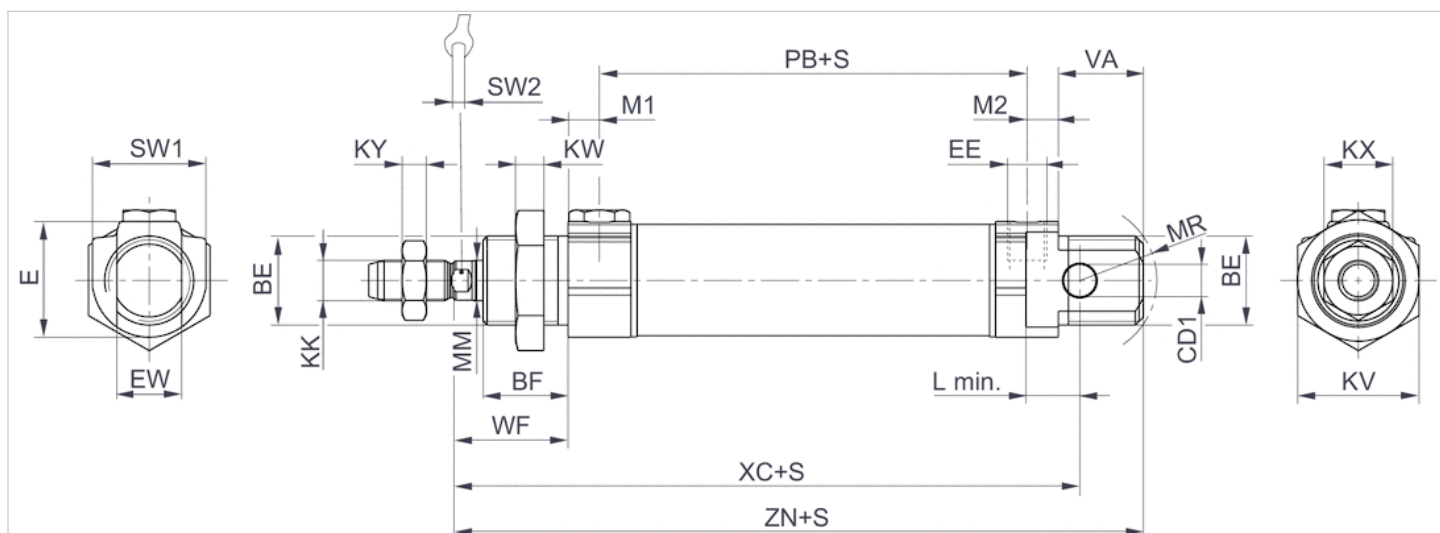
Piston Ø	25 mm
Impact energy	0,35 J
Weight 0 mm stroke	0,23 kg
Weight +10 mm stroke	0,024 kg
Stroke max.	50 mm

## 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  
X = vent screw

## Dimensions

Piston Ø	BE	BF	CD H9	E	EE	EW d13	KK	KV	KW	KX	KY	L min	MM f8
10 mm	M12x1,25	11	4	14	M5 t=5	8	M4	17	5.5	7	2.2	6	4
12 mm	M16x1,5	16	6	19	M5 t=5	12	M6	22	6	10	3.2	8	6
16 mm	M16x1,5	16	6	19	M5 t=5	12	M6	22	6	10	3.2	8	6
20 mm	M22x1,5	18	8	28	G1/8 t=8	16	M8	30	7	13	4	12	8
25 mm	M22x1,5	21	8	28	G1/8 t=8	16	M10x1,25	30	7	17	6	12	10

Piston Ø	M1/M2	MR	PB ±1	VA	WF ±1,4	XC ±1	ZN ± 1,4	SW 1	SW 2
10 mm	4.8	12	47	11	16	74	83.5	13	3
12 mm	4.8	16	41	16	22	75	88.5	19	5
16 mm	4.8	16	47	17	22	82	95.5	19	5
20 mm	7	18	51	19	24	95	109.5	28	6
25 mm	7	19	55	21	28	104	119.5	28	8

t = depth of thread