

Mini cylinder, Series MNI

- Ø 10 mm
- Ports M5
- Single-acting, retracted without pressure
- 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 ³
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	0822430201	0822431201	0822432201	0822433201	0822434201
25	0822430202	0822431202	0822432202	0822433202	0822434202
40	0822430203	0822431209	0822432204	0822433204	0822434207
50	-	0822431203	0822432203	0822433203	0822434203

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).

	10 mm	12 mm	16 mm	20 mm	25 mm
Impact energy	0,04 J	0,07 J	0,14 J	0,23 J	0,23 J
Weight 0 mm stroke	0,03 kg	0,06 kg	0,075 kg	0,14 kg	0,14 kg
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
Impact energy	0,35 J

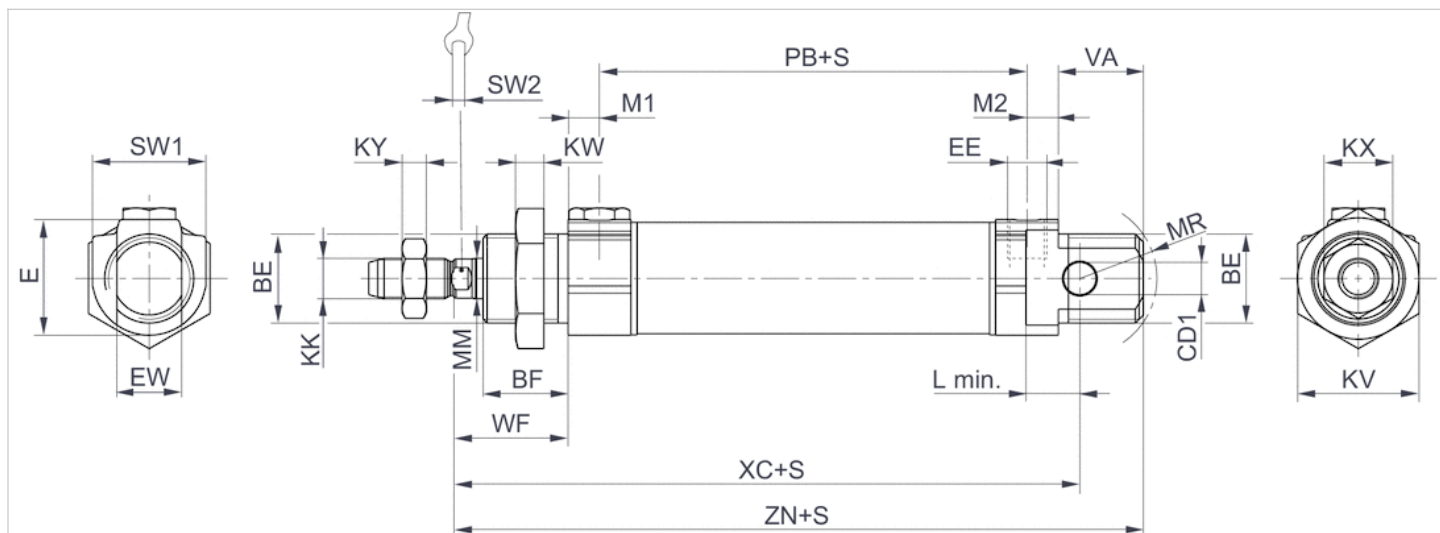
Piston Ø	25 mm
Weight 0 mm stroke	0,23 kg
Weight +10 mm stroke	0,024 kg
Stroke max.	50 mm

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	CD1 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
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

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Piston Ø	BE	BF	CD1 H9	E	EE	EW d13	KK	KV	KW	KX	KY	L min	MM f8
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	37	11	16	64	73.5	13	3
10 mm	4.8	12	37	11	16	64	73.5	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