

Mini cylinder, Series MNI

- Ø 16 mm
- Ports M5
- double-acting
- with magnetic piston
- Cushioning Pneumatically adjustable
- corrosion-protected
- with integrated rear eye
- Piston rod External thread
- Heat resistant



Standards	ISO 6432
Compressed air connection	Internal thread
Working pressure min./max.	1 ... 10 bar
Ambient temperature min./max.	-10 ... 120 °C
Medium temperature min./max.	-10 ... 120 °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

	16 mm	20 mm	25 mm
Piston Ø	16 mm	20 mm	25 mm
Piston rod thread	M6	M8	M10x1,25
Ports	M5	G 1/8	G 1/8
Piston rod Ø	6 mm	8 mm	10 mm
Cylinder outer thread	M16x1,5	M22x1,5	M22x1,5
Stroke 10	0822332451	0822333451	0822334451
25	0822332452	0822333452	0822334452
50	0822332453	0822333453	0822334453
80	0822332454	0822333454	0822334454
100	0822332455	0822333455	0822334455
125	0822332456	0822333456	0822334456
160	0822332457	0822333457	0822334457
200	0822332458	0822333458	0822334458
250	R412008586	0822333459	0822334459
320	R480638873	0822333460	0822334460
400	-	0822333462	0822334461
500	R480611199	-	0822334462

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

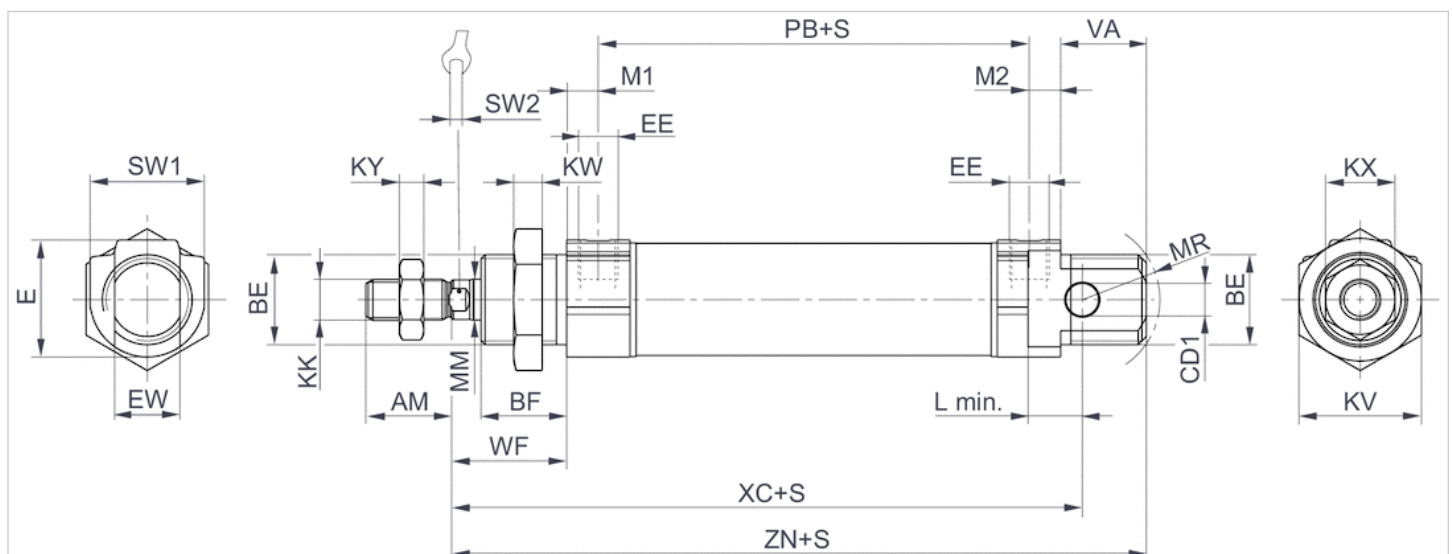
Extracting piston force	127 N	198 N	309 N
Cushioning length	9 mm	13 mm	17,5 mm
Cushioning energy	0,6 J	1,5 J	2,3 J
Weight 0 mm stroke	0,1 kg	0,16 kg	0,265 kg
Weight +10 mm stroke	0,006 kg	0,009 kg	0,013 kg
Stroke max.	800 mm	1100 mm	1300 mm

Technical information

Material	
Cylinder tube	Stainless steel
Piston rod	Stainless steel
Piston	Brass, Aluminum
Front cover	Aluminum, anodized
End cover	Aluminum, anodized
Seal	Fluorocaoutchouc
Nut for cylinder mounting	Steel, galvanized
Nut for piston rod	Steel, galvanized
Scraper	Fluorocaoutchouc

Dimensions

Dimensions



S = stroke

Dimensions

Piston Ø	AM-2	BE	BF	CD H9	E	EE	EW d13	KK	KV	KW	KX	KY	L min
16 mm	16	M16x1,5	16	6	19	M5 t=5	12	M6	22	6	10	3.2	8
16 mm	16	M16x1,5	16	6	19	M5 t=5	12	M6	22	6	10	3.2	8
20 mm	20	M22x1,5	18	8	28	G1/8 t=8	16	M8	30	7	13	4	12
25 mm	22	M22x1,5	21	8	28	G1/8 t=8	16	M10x1,25	30	7	17	6	12

Piston Ø	MM f8	M1/M2	MR	PB ±1	VA	WF ±1,4	XC ±1	ZN ± 1,4	SW 1	SW 2
16 mm	6	4.8	16	47	17	22	82	95.5	19	5
16 mm	6	4.8	16	47	17	22	82	95.5	19	5
20 mm	8	7	18	51	19	24	95	109.5	28	6
25 mm	10	7	19	55	21	28	104	119.5	28	8

t = depth of thread

Diagrams

