Mini cylinder, Series MNI

► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► corrosion-protected ► with integrated rear eye ► Piston rod: external thread ► ATEX optional

00106379

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
- ATEX-certified cylinders are available at AVENTICS sales centres
- 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 to 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	[kg]	0.042	0.073	0.091	0.149	0.249
	+10 mm stroke	[kg]	0.0024	0.0046	0.0055	0.009	0.013
Stroke max.		[mm]	250	600	800	1100	1300

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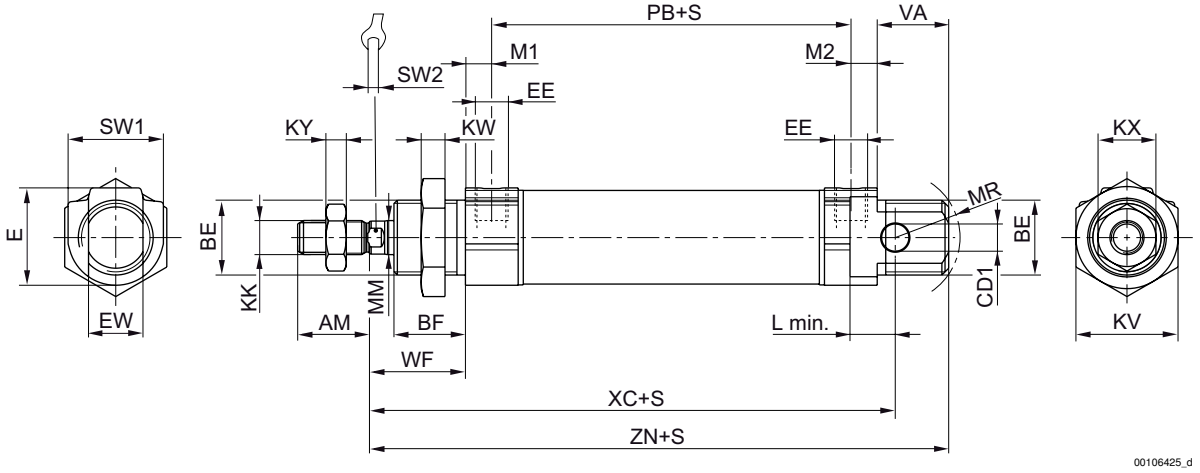
	Piston Ø	10	12	16	20	25
	Piston rod thread	M4	M6	M6	M8	M10x1,25
	Ports	M5	M5	M5	G 1/8	G 1/8
	Piston rod Ø	4	6	6	8	10
	Cylinder outer thread	M12x1,25	M16x1,5	M16x1,5	M22x1,5	M22x1,5
	Stroke 10	**0822330201**	**0822331201**	**0822332201**	**0822333201**	**0822334201**
	25	**0822330202**	**0822331202**	**0822332202**	**0822333202**	**0822334202**
	50	**0822330203**	**0822331203**	**0822332203**	**0822333203**	**0822334203**
	80	**0822330204**	**0822331204**	**0822332204**	**0822333204**	**0822334204**
	100	**0822330205**	**0822331205**	**0822332205**	**0822333205**	**0822334205**
	125	0822330215	**0822331206**	**0822332206**	**0822333206**	**0822334206**
	160	0822330209	**0822331207**	**0822332207**	**0822333207**	**0822334207**
	200	0822330235	0822331218	**0822332208**	**0822333208**	**0822334208**
	250	0822330219	0822331219	0822332209	**0822333209**	**0822334209**
	320	-	0822331223	0822332210	**0822333210**	**0822334210**
	400	-	0822331217	0822332219	0822333214	**0822334211**
	500	-	0822331233	0822332220	0822333220	**0822334212**

Other versions can be ordered from AVENTICS sales offices.

Dimensions



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	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