



Piston rod cylinder → Standard cylinders

Mini cylinder, ISO 6432, Series MNI

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► corrosion-protected ► with integrated rear eye ► Piston rod: external thread ► ATEX optional



Compressed air connection

Working pressure min./max.
Ambient temperature min./max.
Medium temperature min./max.
Medium
Max. particle size
Oil content of compressed air
Pressure for determining piston forces

internal thread

1 bar / 10 bar
-25°C / +80°C
-25°C / +80°C
Compressed air
50 µm
0 mg/m³ - 5 mg/m³
6,3 bar

Materials:

Cylinder tube
Piston rod
Piston
Front cover
End cover
Seal

Stainless steel
Stainless steel
Brass, Aluminum
Aluminum, anodized
Aluminum, anodized
Acrylonitrile Butadiene Rubber; Polyurethane

Nut for cylinder mounting
Nut for piston rod
Scraper

Steel, galvanized
Steel, galvanized
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 Rexroth Pneumatics, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary
- ATEX-certified cylinders are available at Rexroth Pneumatics 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
	+10 mm stroke	[kg]	0.0024	0.0046	0.0055	0.009
Stroke max.	[mm]	250	600	800	1100	1300



INNIEUWSTEIN

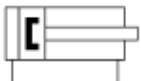
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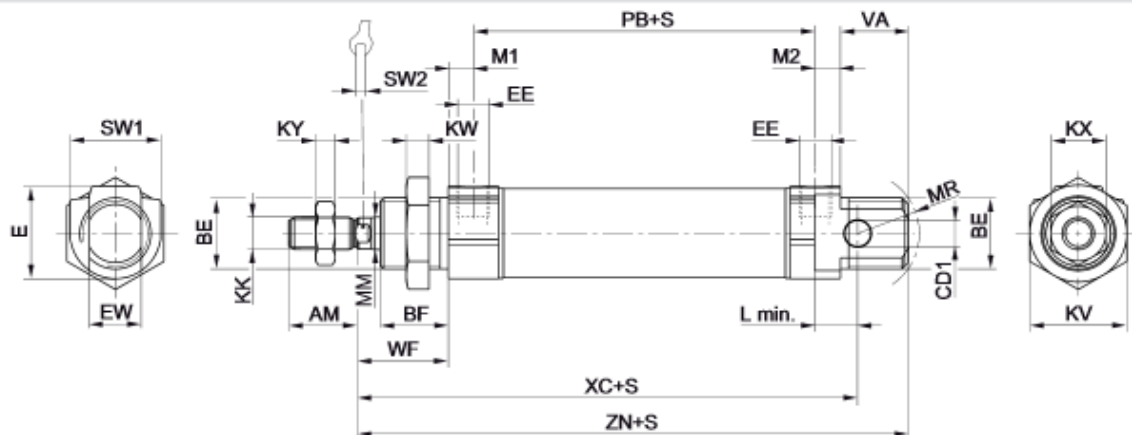
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	Piston Ø Piston rod thread Ports Piston rod Ø Cylinder outer thread	10 M4 M5 4 M12x1,25	12 M6 M5 6 M16x1,5	16 M6 M5 6 M16x1,5	20 M8 G 1/8 8 M22x1,5	25 M10x1,25 G 1/8 10 M22x1,5
	Stroke 10	0822330201	0822331201	0822332201	0822333201	0822334201
	25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

other versions can be ordered from Bosch Rexroth Pneumatics sales offices

Dimensions



S = stroke

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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	

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