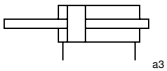
Piston rod cylinder → Standard cylinders

Mini cylinder, ISO 6432, Series MNI

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► cushioning: elastic ► corrosion-protected ► Piston rod: through, external thread ► ATEX optional

Standards	ISO 6432
Compressed air connection	internal thread
Working pressure min./max.	1.5 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

00106382



a3

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

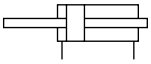
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- ATEX-certified cylinders are available at Bosch Rexroth 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.
- Warning: The piston rod halves must not be twisted against one another!

Piston Ø		[mm]	10	12	16	20	25
Retracting piston force		[N]	42	53	109	166	260
Extracting piston force		[N]	42	53	109	166	260
Impact energy		[J]	0.04	0.07	0.14	0.23	0.35
Weight	0 mm stroke	[kg]	0.039	0.073	0.091	0.182	0.317
	+10 mm stroke	[kg]	0.0029	0.005	0.0063	0.0102	0.0155
Stroke max.		[mm]	250	600	800	1100	1300
Working pressure min./max.		[bar]	1 - 10	1 - 10	1 - 10	1 - 10	1 - 10

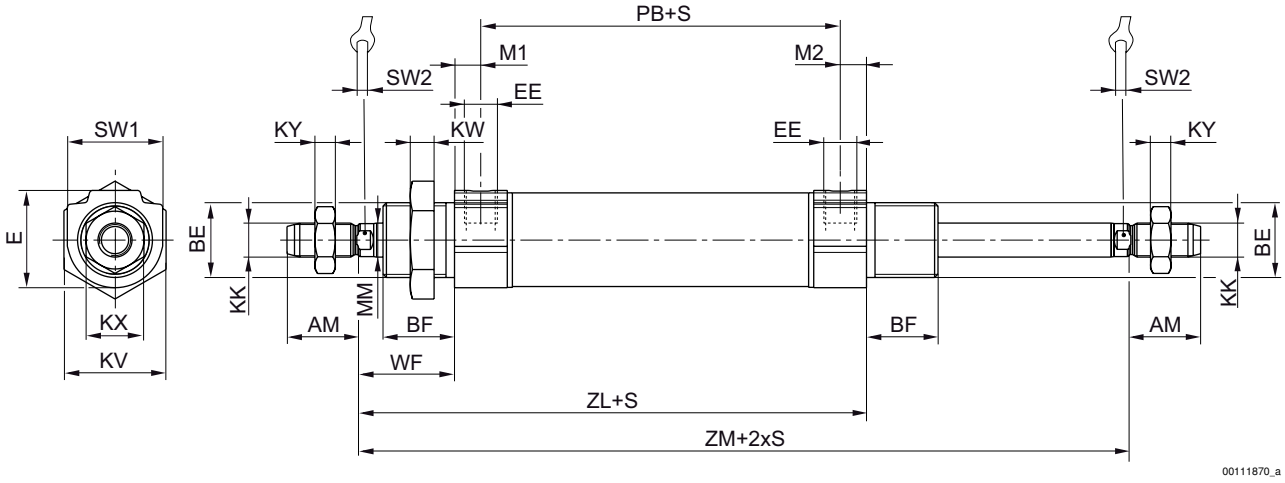
Piston rod cylinder → Standard cylinders

Mini cylinder, ISO 6432, Series MNI

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► cushioning: elastic ► corrosion-protected ► Piston rod: through, external thread ► ATEX optional

	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	0822080201	0822081201	**0822082201**	0822083201	**0822084201**
	25	**0822080202**	**0822081202**	**0822082202**	**0822083202**	**0822084202**
	50	0822080203	0822081203	0822082203	**0822083203**	**0822084203**
	80	0822080204	0822081204	**0822082204**	**0822083204**	0822084204
	100	0822080205	0822081205	0822082205	**0822083205**	**0822084205**
	125	-	0822081206	0822082206	0822083206	0822084206
	160	-	0822081207	0822082207	0822083207	0822084207
	200	-	-	0822082208	0822083208	0822084208
	250	-	-	-	0822083209	0822084209
	320	-	-	-	0822083210	0822084210
	400	-	-	-	-	0822084211
	500	-	-	-	-	0822084212
other versions can be ordered from Bosch Rexroth sales offices						

Dimensions



S = stroke

Piston Ø	AM –2	BE	BF	E	EE	KK	KV	KW	KX	KY	MM f8	M1/M2
10	12	M12x1,25	11	14	M5 t=5	M4	17	5.5	7	2.2	4	4.8
12	16	M16x1,5	16	19	M5 t=5	M6	22	6	10	3.2	6	4.8
16	16	M16x1,5	16	19	M5 t=5	M6	22	6	10	3.2	6	4.8
20	20	M22x1,5	18	28	G1/8 t=8	M8	30	7	13	4	8	7
25	22	M22x1,5	21	28	G1/8 t=8	M10x1,25	30	7	17	6	10	7

Piston Ø	PB ±1	SW 1	SW 2	WF±1,4	ZL ± 1,7	ZM +0/-2,5							
10	37	13	3	16	62.5	80.5							
12	41	19	5	22	72.5	96.5							
16	47	19	5	22	78.5	102.5							
20	51	28	6	24	90.5	116.4							
25	55	28	8	28	98.5	128.2							
t = depth of thread													