

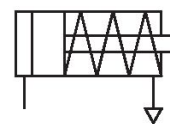
# Mini cylinder, Series MNI

0822434207

AVENTICS  
Series  
MNI Mini  
cylinders  
(ISO 6432)

## AVENTICS Series MNI Mini cylinders (ISO 6432)

The AVENTICS Series MNI (ISO 6432) round cylinders for general machine construction are characterized by its robust and long service life.



### Technical data

Industry	Industrial
Standards	ISO 6432
Piston Ø	25 mm
Stroke	40 mm
Ports	G 1/8
Functional principle	Single-acting, retracted without pressure
Cushioning	Elastic cushioning
Magnetic piston	Piston without magnet
Environmental requirements	Industry standard
Piston rod thread - type	External thread
Piston rod thread	M10x1,25
Piston rod	single
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Extracting piston force	279.6 N
Min. ambient temperature	-25 °C
Max. ambient temperature	80 °C
Min. working pressure	2 bar
Max. working pressure	10 bar
Min. spring force	19.2 N
Max. spring force	29.4 N
Impact energy	0.35 J
Weight	0.35 kg
Weight 0 mm stroke	0.23 kg

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Weight +10 mm stroke 0.024 kg

Stroke max. 50 mm

Medium Compressed air

Min. medium temperature -25 °C

Max. medium temperature 80 °C

Max. particle size 50 µm

Min. oil content of compressed air 0 mg/m<sup>3</sup>

Max. oil content of compressed air 5 mg/m<sup>3</sup>

2024-04-11

## Material

Piston rod Stainless Steel

Piston material Brass

Aluminum

Scraper material Polyurethane

Seal material Acrylonitrile butadiene rubber

Polyurethane

Material, front cover Aluminum

Cylinder tube Stainless Steel

End cover Aluminum

Nut for cylinder mounting Steel, chrome-plated

Nut for piston rod Steel, chrome-plated

Part No. 0822434207

## Technical information

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

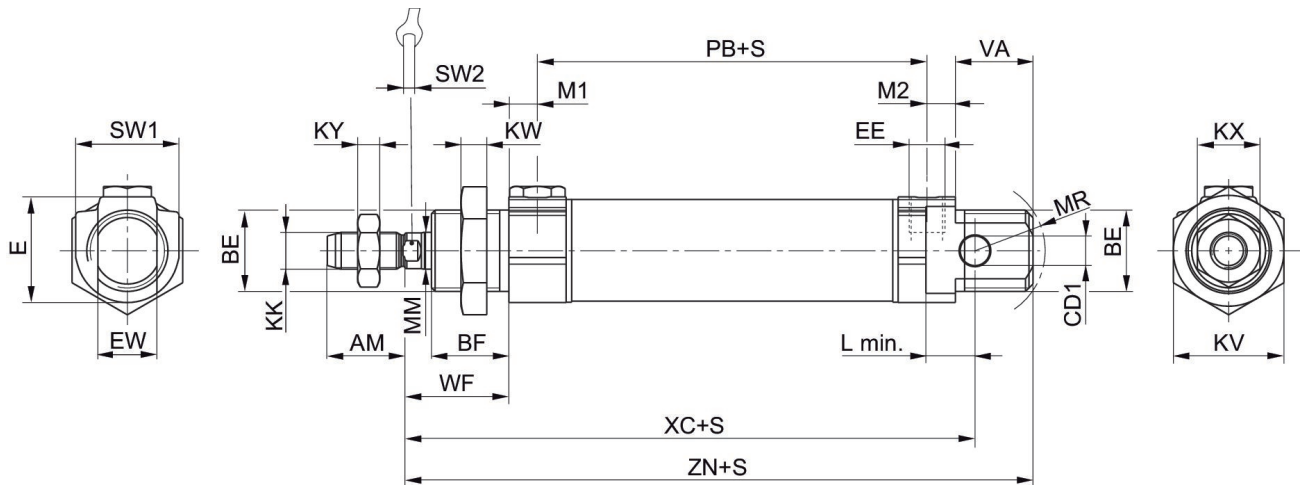
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

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## Dimensions



S = stroke  
X = vent screw

Piston Ø	AM-2	BE	BF	CD1 H9	E	EE t = depth of thread	EW d13	KK	KV
10	12	M12x1,25	11	4	14	M5 t=5	8	M4	17
12	16	M16x1,5	16	6	19	M5 t=5	12	M6	22
16	16	M16x1,5	16	6	19	M5 t=5	12	M6	22
20	20	M22x1,5	18	8	28	G1/8 t=8	16	M8	30
25	22	M22x1,5	21	8	28	G1/8 t=8	16	M10x1,25	30

Piston Ø	KW	KX	KY	L min	MM f8	M1/M2	MR	PB ±1	VA
10	5.5	7	2.2	6	4	4.8	12	37	11
12	6	10	3.2	8	6	4.8	16	41	16
16	6	10	3.2	8	6	4.8	16	47	17
20	7	13	4	12	8	7	18	51	19
25	7	17	6	12	10	7	19	55	21

Piston Ø	WF ±1,4	XC ±1	ZN ± 1,4	SW 1	SW 2
10	16	64	73.5	13	3
12	22	75	88.5	19	5
16	22	82	95.5	19	5
20	24	95	109.5	28	6
25	28	104	119.5	28	8

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## Overview drawing



NOTE: This overview drawing is only for orientation to indicate where the various accessory parts can be fastened to the cylinder. The illustration has been simplified for this purpose. It is thus not possible to derive the dimensions from this overview.