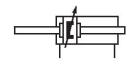
R480680388

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
 16 mm

 Stroke
 320 mm

 Ports
 M5

Functional principle Double-acting

Cushioning Pneumatic adjustable cushioning

Magnetic piston Piston with magnet Environmental requirements Industry standard ATEX optional

Piston rod thread - type External thread

Piston rod thread M6
Piston rod through

Scraper Standard Industry Scraper

Pressure for determining piston forces 6,3 bar
Retracting piston force 109 N
Extracting piston force 109 N
Min. ambient temperature -25 °C
Max. ambient temperature 80 °C
Min. working pressure 1 bar



R480680388

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Max. working pressure 10 bar Cushioning length 9 mm

2024-04-11

Cushioning energy Weight 0.0973 kg Weight 0 mm stroke 0.1 kg Weight +10 mm stroke 0.063 kg Stroke max. 675 mm

Medium Compressed air

-25 °C Min. medium temperature 80 °C Max. medium temperature 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>

Clamping piece for magnetic field sensor Clamping piece for magnetic field sensor

0.6 J

necessary necessary

#### 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. R480680388

R480680388

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#### Technical information

ATEX-certified cylinders can be generated in the Internet configurator.

ATEX-certified cylinders with identification II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135°C Db\_X can be generated in the Internet configurator.

The operating temperature range for ATEX-certified cylinders is -20°C ... 60°C.

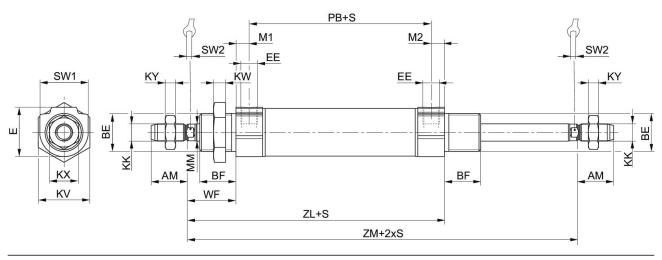
Warning: The front and rear piston rods must not be twisted against one another!

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).

#### **Dimensions**



S = stroke

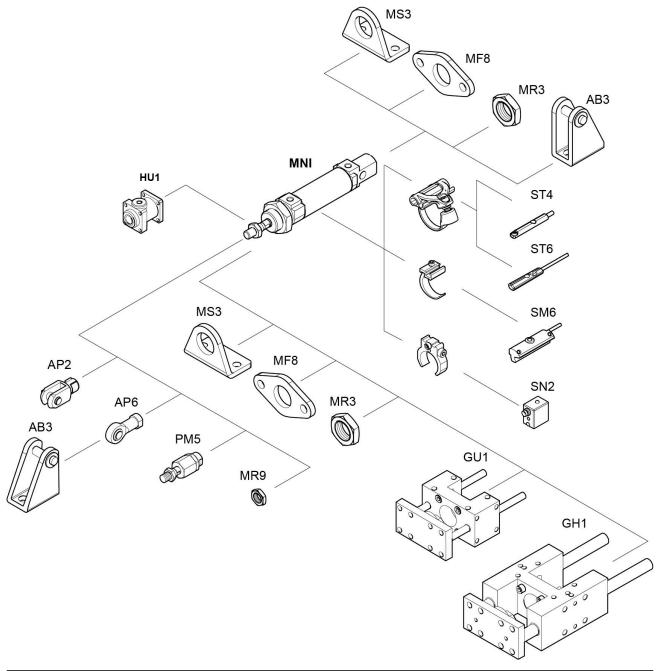
Piston Ø	AM –2	BE	BF		EE t = depth of thread	KK	KV	KW	кх
16	16	M16x1,5	16	19	M5 t=5	M6	22	6	10
20	20	M22x1,5	18	28	G1/8 t=8	M8	30	7	13
25	22	M22x1,5	21	28	G1/8 t=8	M10x1,25	30	7	17

Piston Ø	KY	MM f8	M1/M2	PB ±1	SW 1	SW 2	WF ±1,4	ZL ± 1,7	ZM +0/-2,5
16	3.2	6	4.8	47	19	5	22	78.5	102.5
20	4	8	7	51	28	6	24	90.5	116.4
25	6	10	7	55	28	8	28	98.5	128.2

R480680388

Overview drawing

AVENTICS Series MNI Mini cylinders (ISO 6432)



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.