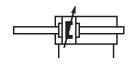
R480680381

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
 50 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



R480680381

AVENTICS Series MNI Mini cylinders (ISO 6432)

Max. working pressure 10 bar
Cushioning length 9 mm
Cushioning energy 0.6 J

2024-04-11

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

Min. medium temperature-25 °CMax. medium temperature80 °CMax. particle size50 μmMin. oil content of compressed air0 mg/m³Max. oil content of compressed air5 mg/m³

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

necessary necessary

Material

Piston rod Stainless Steel

Piston material Brass Aluminum

Scraper material Polyurethane

Seal material Acrylonitrile butadiene rubber

Polyurethane

Material, front cover

Cylinder tube

End cover

Aluminum

Stainless Steel

Aluminum

Nut for cylinder mountingSteel, chrome-platedNut for piston rodSteel, chrome-plated

Part No. R480680381

R480680381

AVENTICS Series MNI Mini cylinders (ISO 6432)

2024-04-11

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.

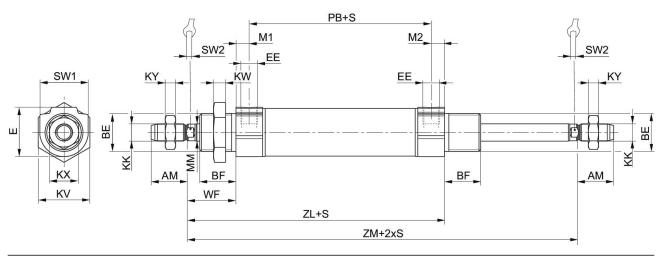
Warning: The front and rear piston rods must not be twisted against one another!

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

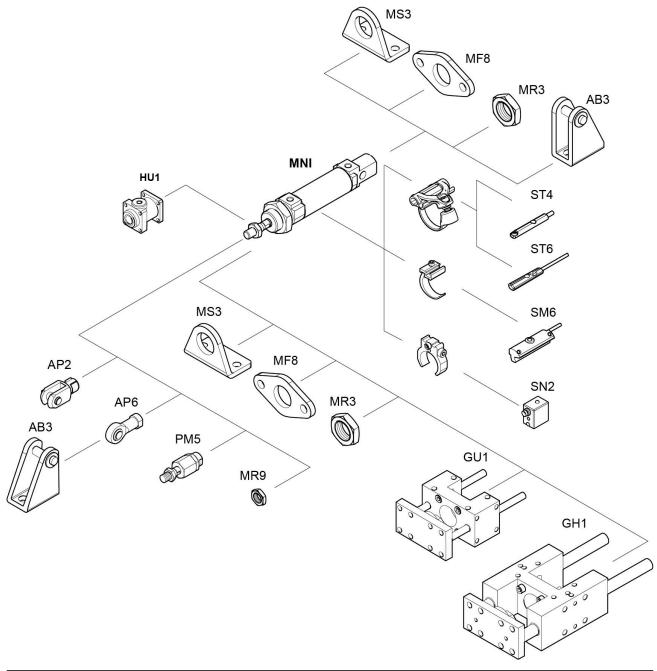
Piston Ø	AM –2	BE	BF		EE t = depth of thread	KK	KV	KW	кх
16	16	M16x1,5	16	19	M5 t=5	M6	22	6	10
20	20	M22x1,5	18	28	G1/8 t=8	M8	30	7	13
25	22	M22x1,5	21	28	G1/8 t=8	M10x1,25	30	7	17

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

R480680381

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.