2024-06-21

# Mini cylinder, Series ICM

• Ø 8 ... 32 mm

R402001221

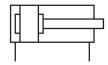
Max. stroke: 400 mm

- · corrosion-resistant
- Suitable for us in food processing

#### **AVENTICS Series ICM Mini cylinders**

The AVENTICS Series ICM is a mini cylinder and costefficient solution for high corrosion resistance and reliability - even in harsh environments. The cylinder tube and piston rod are made of stainless steel, the cylinder covers are fashioned from a high-quality polymer.





#### Technical data

Industry Industrial Piston Ø 20 mm Stroke 200 mm G 1/8 **Ports** 

Functional principle Double-acting Cushioning Elastic cushioning Magnetic piston Piston without magnet

Environmental requirements Industry standard

suitable for use in food processing

Piston rod thread - type External thread

Piston rod thread **M8** Piston rod single

Standard Industry Scraper Scraper

Pressure for determining piston forces 6,3 bar Retracting piston force 166 N 198 N Extracting piston force -20 °C Min. ambient temperature 70 °C Max. ambient temperature Min. working pressure 2 bar Max. working pressure 10 bar

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Weight 0 mm stroke 0.08 kg
Weight +10 mm stroke 0.01 kg
Stroke max. 400 mm

Medium Compressed air

Min. medium temperature  $-20~^{\circ}\text{C}$  Max. medium temperature  $70~^{\circ}\text{C}$  Max. particle size  $50~\mu\text{m}$  Min. oil content of compressed air  $0~\text{mg/m}^{3}$ 

#### Material

Piston rod Stainless Steel Scraper material Polyurethane

Seal material Acrylonitrile butadiene rubber

Material, front cover

Cylinder tube

End cover

Connection thread

Nut for cylinder mounting

Nut for piston rod

Polyoxymethylene
Stainless Steel
Polyamide
Polyamide
Stainless Steel
Part No.

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#### Technical information

Nut MR3 included in supply

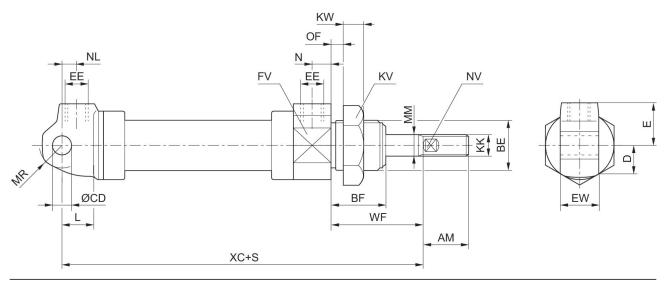
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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

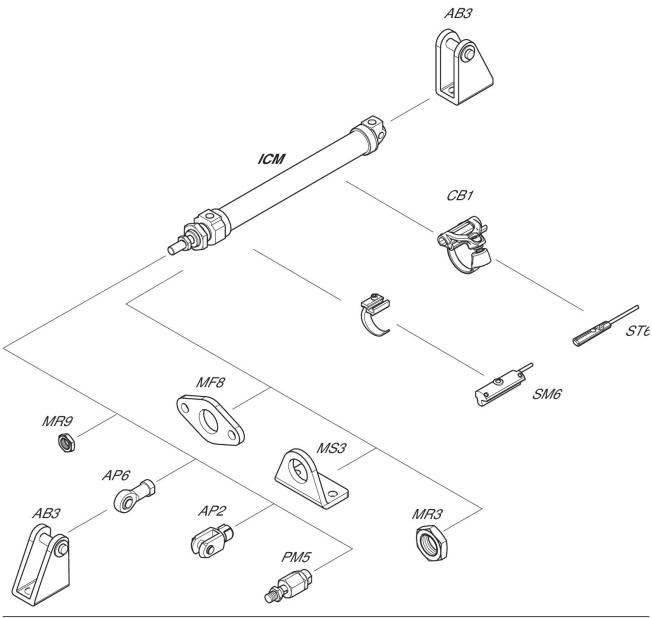
Piston Ø	AM +0/-2	BE	BF	CD H11	D	Е	EE	EW d13	FV
8	12	M12x1,25	14	4	7.5	12	M5	8	14
10	12	M12x1,25	14	4	8	12	M5	8	16
12	16	M16x1,5	20	6	10	13.5	M5	12	20
16	16	M16x1,5	20	6	12	14	M5	12	24
20	20	M22x1,5	22	8	15	18	G1/8	16	30
25	27	M22x1,5	22	8	17	18	G1/8	16	34
32	32	M30x1,5	29	10	22.5	24	G1/8	26	46

Piston Ø	KK	KV	KW	L	MM	MR	N	NL	NV
8	M4	17	7	7	4	5	5	12	3
10	M4	17	7	7	4	5	5	12	3
12	M6	24	7	9	6	7.5	5	7	4
16	M6	24	7	9	6	7.5	5	6	4
20	M8	30	8	12	8	10	8	7	6
25	M10x1,25	30	8	12	10	10	8	6.5	8
32	M10x1,25	41	11	13	12	15	10	10.5	11

Piston Ø	OF max.	WF ±1,2	XC ±1
8	4.5	16	64
10	4.5	16	64
12	10	22	62
16	10	22	58
20	10	24	73
25	10	23	72
32	14	38	98

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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.