Mini cylinder, Series ICM

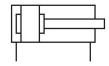
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- Ø 8 ... 32 mm
- Max. stroke: 400 mm
- · corrosion-resistant
- · Suitable for us in food processing

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

 $\begin{array}{ccc} \text{Industry} & \text{Industrial} \\ \text{Piston } \varnothing & 20 \text{ mm} \\ \text{Stroke} & 20 \text{ mm} \\ \text{Ports} & \text{G 1/8} \\ \end{array}$

Functional principle Double-acting
Cushioning Elastic cushioning
Magnetic piston Piston without magnet
Environmental requirements Industry standard

Industry standard suitable for use in food processing

Piston rod thread - type External thread

Piston rod thread M8
Piston rod single

Scraper Standard Industry Scraper

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

 $\begin{array}{ll} \mbox{Min. medium temperature} & -20 \ ^{\circ}\mbox{C} \\ \mbox{Max. medium temperature} & 70 \ ^{\circ}\mbox{C} \\ \mbox{Max. particle size} & 50 \ \mu\mbox{m} \\ \mbox{Min. oil content of compressed air} & 0 \ \mbox{mg/m}^{3} \end{array}$

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
Stainless Steel
Part No.

Polyoxymethylene
Stainless Steel
Polyamide
Stainless Steel
R402001222

Technical information

Nut MR3 included in supply

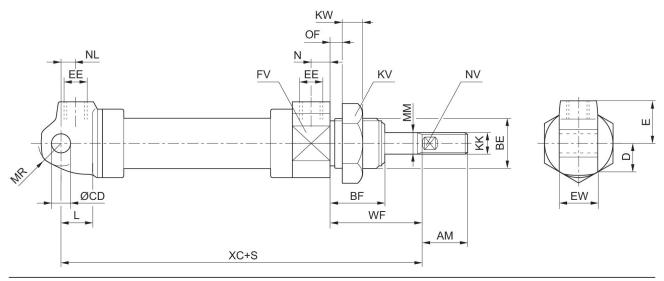
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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

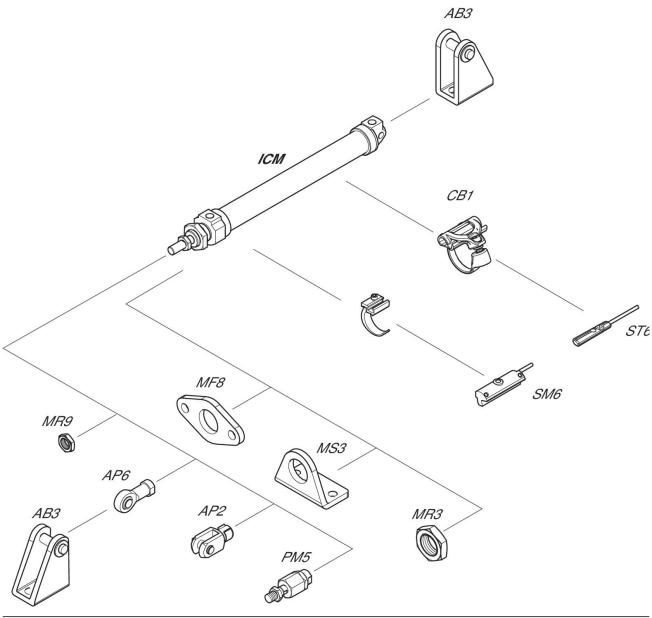
Piston Ø	AM +0/-2	BE	BF	CD H11	D	Е	EE	EW d13	FV
8	12	M12x1,25	14	4	7.5	12	M5	8	14
10	12	M12x1,25	14	4	8	12	M5	8	16
12	16	M16x1,5	20	6	10	13.5	M5	12	20
16	16	M16x1,5	20	6	12	14	M5	12	24
20	20	M22x1,5	22	8	15	18	G1/8	16	30
25	27	M22x1,5	22	8	17	18	G1/8	16	34
32	32	M30x1,5	29	10	22.5	24	G1/8	26	46

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.