## Mini cylinder, Series ICM

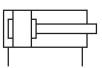
R404009112

- 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	
Industry	Industrial
Piston Ø	25 mm
Stroke	35 mm
Ports	G 1/8
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	M10x1,25
Piston rod	single
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Retracting piston force	260 N
Extracting piston force	309 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	0.1 kg
Weight +10 mm stroke	0.014 kg
Stroke max.	400 mm
Medium	Compressed air
Min. medium temperature	-20 °C
Max. medium temperature	70 °C
Max. particle size	50 µm
Min. oil content of compressed air	0 mg/m³

#### Material

Piston rod
Scraper material
Seal material
Material, front cover
Cylinder tube
End cover
Connection thread
Nut for cylinder mounting
Nut for piston rod
Part No.

Stainless Steel Polyurethane Acrylonitrile butadiene rubber Polyoxymethylene Stainless Steel Polyoxymethylene Stainless Steel Polyamide Stainless Steel R404009112

#### **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.

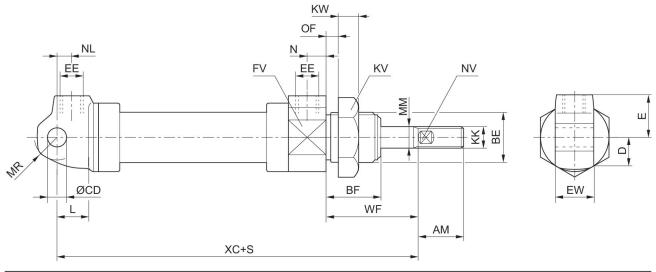
The oil content of compressed air must remain constant during the life cycle.

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

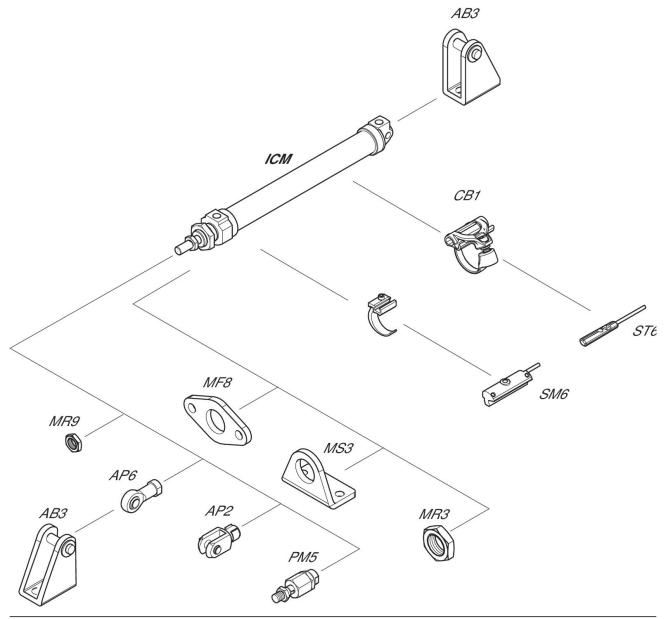
Piston Ø	AM +0/-2	BE	BF	CD H11	D	E	EE	EW d13	FV
8	12	M12x1,25	14	4	7.5	12	M5	8	14
10	12	M12x1,25	14	4	8	12	M5	8	16
12	16	M16x1,5	20	6	10	13.5	M5	12	20
16	16	M16x1,5	20	6	12	14	M5	12	24
20	20	M22x1,5	22	8	15	18	G1/8	16	30
25	27	M22x1,5	22	8	17	18	G1/8	16	34
32	32	M30x1,5	29	10	22.5	24	G1/8	26	46
Piston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

