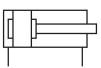
- Ø 8 ... 32 mm
- Max. stroke: 400 mm
- corrosion-resistant
- · Suitable for us in food processing

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	16 mm
Stroke	40 mm
Ports	M5
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	M6
Piston rod	single
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Retracting piston force	109 N
Extracting piston force	127 N
Min. ambient temperature	-20 °C
Max. ambient temperature	70 °C
Min. working pressure	2 bar
Max. working pressure	10 bar



Mini cylinder, Series ICM

R404051299

Series ICM	
2024-06-21	

Weight 0 mm stroke	0.054 kg
Weight +10 mm stroke	0.005 kg
Stroke max.	200 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 R404051299

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.

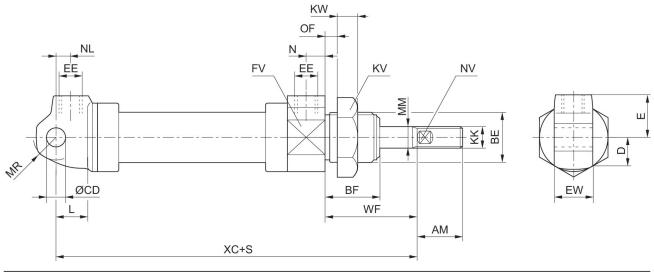
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



Mini cylinder, Series ICM

R404051299

Dimensions



S = stroke

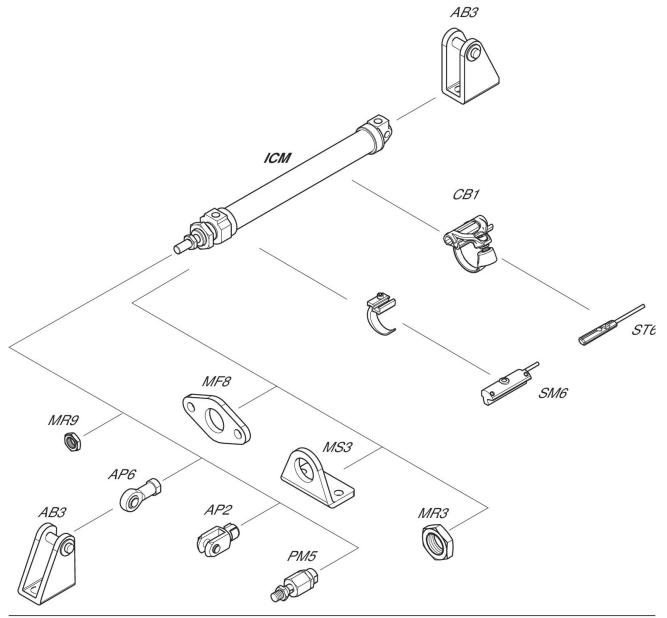
Piston Ø	AM +0/-2	BE	BF	CD H11	D	E	EE	EW d13	FV
8	12	M12x1,25	14	4	7.5	12	M5	8	14
10	12	M12x1,25	14	4	8	12	M5	8	16
12	16	M16x1,5	20	6	10	13.5	M5	12	20
16	16	M16x1,5	20	6	12	14	M5	12	24
20	20	M22x1,5	22	8	15	18	G1/8	16	30
25	27	M22x1,5	22	8	17	18	G1/8	16	34
32	32	M30x1,5	29	10	22.5	24	G1/8	26	46
Piston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



R404051299

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.

