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

1 1

#### **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			
Standards	ISO 6432			
Piston Ø	25 mm			
Stroke	50 mm			
Ports	G 1/8			
Functional principle	Double-acting			
Cushioning	Elastic cushioning			
Magnetic piston	Piston with 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	1 bar			



# Mini cylinder, Series ICM

1332505000

Max. working pressure	10 bar
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	Stainless Steel		
Scraper material	Polyurethane		
Seal material	Acrylonitrile butadiene rubber		
Material, front cover	Polyoxymethylene		
Cylinder tube	Stainless Steel		
End cover	Polyoxymethylene		
Connection thread	Stainless Steel		
Nut for cylinder mounting	Polyamide		
Nut for piston rod	Stainless Steel		
Part No.	1332505000		

### **Technical information**

Nut MR3 included in supply

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

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

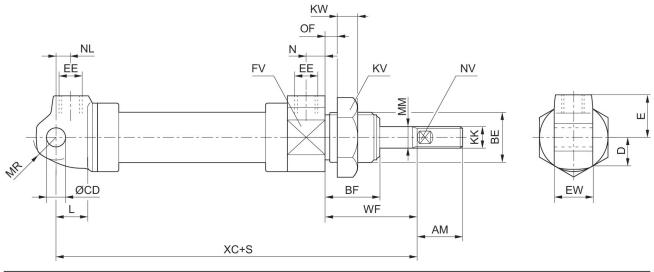
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



# Mini cylinder, Series ICM

1332505000

### Dimensions



S = stroke

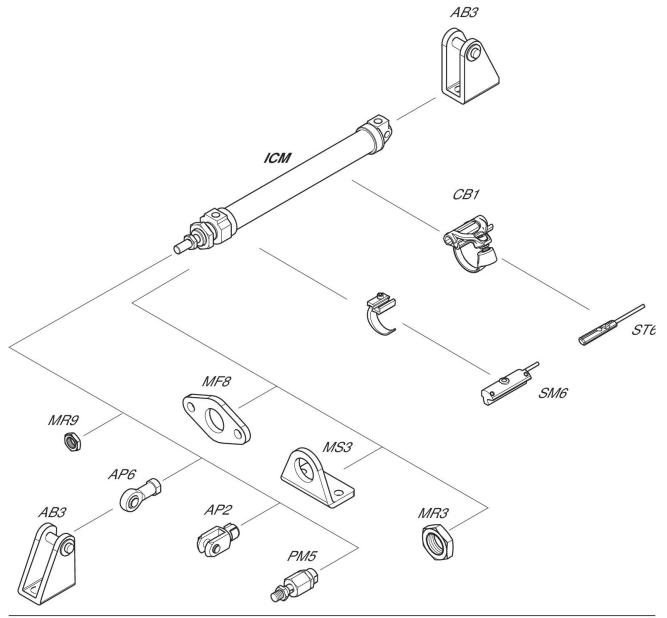
Piston Ø	AM +0/-2	BE	BF	CD H11	D	E	EE	EW d13	FV
12	16	M16x1,5	20	6	10	13.5	M5	12	20
16	16	M16x1,5	20	6	12	14	M5	12	24
20	20	M22x1,5	22	8	15	18	G 1/8	16	30
25	27	M22x1,5	22	8	17	18	G 1/8	16	34
32	32	M30x1,5	29	10	22.5	24	G 1/8	26	46
Piston Ø	KK	KV	KW	L	MM	MR	N	NL	NV
12	M6	24	7	9	6	7.5	5	7	4
16	M6	24	7	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						
12	10	22	75						

12	10	22	75
16	10	22	82
20	10	24	95
25	10	23	104
32	14	38	128



1332505000

## 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.

