

AVENTICS Series CCL-IC Standard cylinders (ISO 21287)

The AVENTICS Series CCL-IC (ISO 21287) cylinders with their compact and clean design can be used in a wide range of applications. Their smooth surface together with their materials, such as anodized aluminium, stainless steel, and NSF-H1 lubricants, make the cylinder ideal for the demanding requirements in the food and beverage industry.

- Compact clean design
- Available in nine sizes covering piston diameters from 16 mm to 100 mm
- Easy to clean anodized surfaces
- Scrapers and lubricants (NSF-H1) are approved for food applications
- Hygienic protective caps for unused mounting holes
- Universal mounting concept for easy assembly, without the need for additional mounting elements



Technical data

Industry	Industrial
Standards	ISO 21287
Piston Ø	32 mm
Stroke	25 mm
Ports	G 1/8
Functional principle	Single-acting, retracted without pressure
Cushioning	elastic cushioning
Magnetic piston	Piston with magnet
Environmental requirements	Industry standard suitable for use in food processing High corrosion
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	35 N
Extracting piston force	472 N
Min. ambient temperature	-20 °C
Max. ambient temperature	80 °C

Compact cylinder ISO 21287, Series CCL-IC

R480668910

Series CCL-
IC

2026-01-20

Min. working pressure	1 bar
Max. working pressure	10 bar
Max. spring force	35 N
Impact energy	0.4 J
Weight 0 mm stroke	0.313 kg
Weight +10 mm stroke	0.035 kg
Stroke max.	25 mm
Medium	Compressed air
Min. medium temperature	-20 °C
Max. medium temperature	80 °C
Max. particle size	50 µm
Min. oil content of compressed air	0 mg/m ³
Max. oil content of compressed air	5 mg/m ³

Material

Piston rod	Stainless Steel
Scraper material	Polyurethane
Material, front cover	Aluminum
Cylinder tube	Aluminum
End cover	Aluminum
Part No.	R480668910

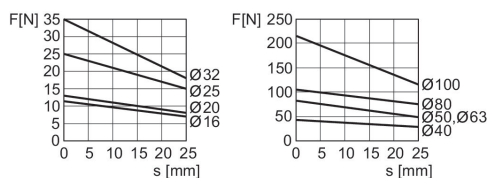
Technical information

Further options can be generated in the Internet configurator.

LW*/SW* Hexagonal key required

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

Extracting piston force



F = spring return force, s = return stroke

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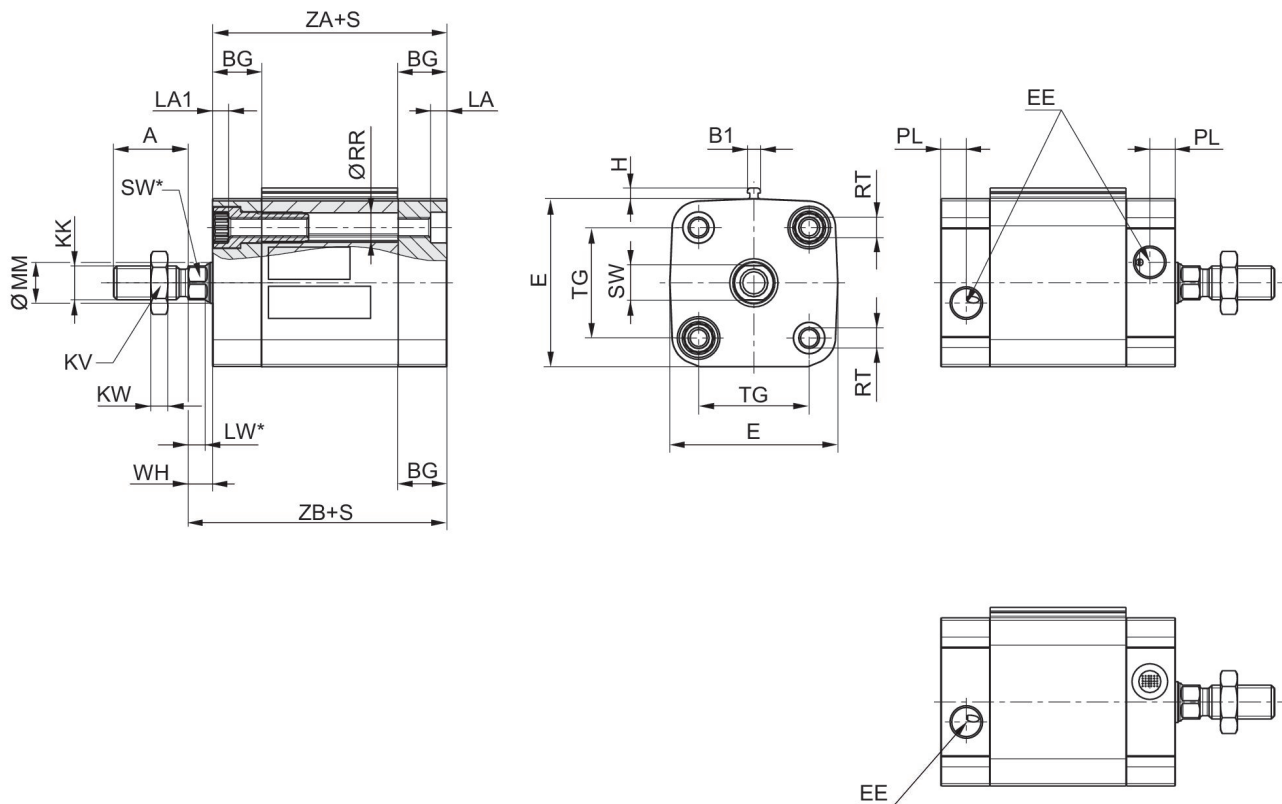
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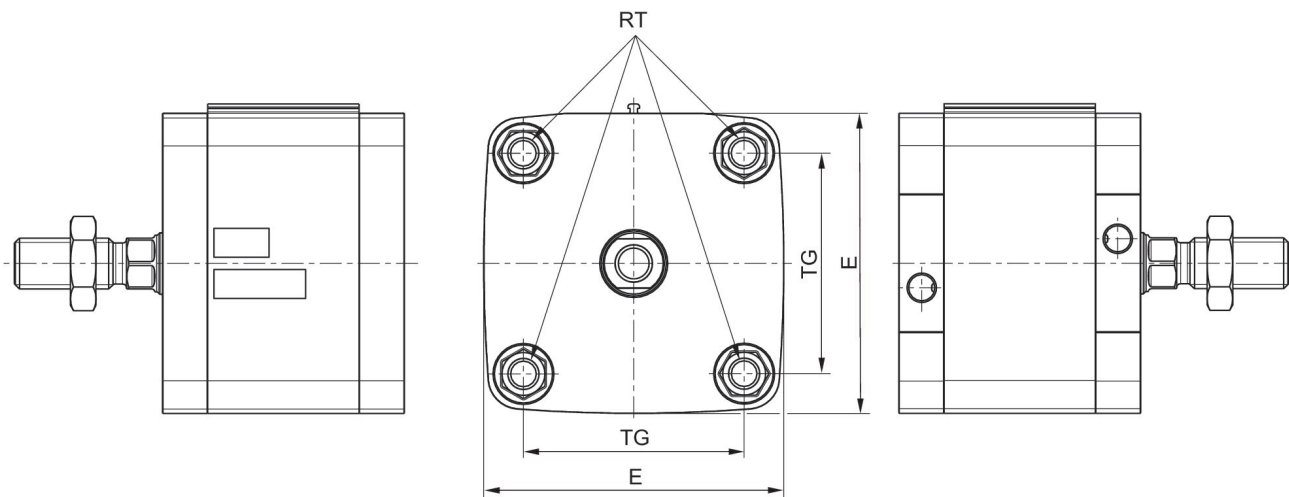
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Dimensions

Ø16 - 63



Ø80 - 100



S = stroke

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Piston Ø	A	B1	BG min.	E	EE	H	KK	KV	KW	LA
16	12	3.8	15	29	M5	3.1	M6	10	3.2	3.5
20	16	3.8	15	36.5	M5	3.1	M8	13	4	4.8
25	16	3.8	15	40.5	M5	3.1	M8	13	4	4.8
32	19	3.8	16	49.5	G1/8	3.1	M10x1.25	17	5	4.8
40	19	3.8	16	57.5	G1/8	3.1	M10x1.25	17	5	4.8
50	22	3.8	16	69.5	G1/8	3.1	M12x1.25	18	6	4.8
63	22	3.8	16	79.5	G1/8	3.1	M12x1.25	18	6	4.8

Piston Ø	LA1	LW	LW*	MM f8	PL	RR min.	RT	SW	SW*	TG
16	3.5	3.2	3.2	8	5	3.2	M4	7	7	18 ±0,4
20	4.6	3.7	3.7	10	5	4.1	M5	8	8	22 ±0,4
25	4.6	3.7	3.7	10	5	4.1	M5	8	8	26 ±0,4
32	4.8	5	5*	12	7.5	5.1	M6	10	10*	32,5 ±0,5
40	4.8	5	5*	12	7.5	5.1	M6	10	10*	38 ±0,5
50	4.8	5.7	4,8*	16	7.5	6.4	M8	13	13*	46,5 ±0,6
63	4.8	5.7	4,8*	16	7.5	6.4	M8	13	13*	56,5 ±0,7

Piston Ø	WH	ZA +S	ZB+S
16	4,8 ±1,4	36	40.8
20	6 ±1,4	37	43
25	6 ±1,4	39	45
32	7 ±1,6	44	51
40	7 ±1,6	45	52
50	8 ±1,6	45.5	53.5
63	8 ±1,6	49	57

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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.