

ISO 21287, Series CCL-IC

R480668765

General series information
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.



Technical data

Industry	Industrial
Standards	ISO 21287
Piston Ø	80 mm
Stroke	25 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 ATEX optional High corrosion
Piston rod	single
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar

Retracting piston force	2969 N
Extracting piston force	3167 N
Min. ambient temperature	-20 °C
Max. ambient temperature	80 °C
Working pressure min.	1 bar
Working pressure max	10 bar
Piston rod thread	M16x1,5
Impact energy	1.8 J
Weight 0 mm stroke	1.42 kg
Weight +10 mm stroke	0.087 kg
Stroke max.	500 mm
Medium	Compressed air
Min. medium temperature	-20 °C
Max. medium temperature	80 °C
Max. particle size	50 µm
Oil content of compressed air min.	0 mg/m ³
Oil content of compressed air max.	5 mg/m ³

Material

Piston rod	Stainless Steel
Scraper material	Polyurethane
Material, front cover	Aluminum
Cylinder tube	Aluminum
End cover	Aluminum
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The material for heat-resistant scraper and seal variants (ambient temperature: -10 °C ... 120 °C) is fluorocarbon.

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.

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

ATEX-certified cylinders with identification II 2G Ex h IIC T4 Gb / II 2D Ex h IIC T135°C Db_X can be generated in the Internet configurator.

Dimensions

Ø16 - 63



Ø80 - 100



S = stroke

Piston Ø	A	B1	BG min.	E	EE	H	KK	KV	KW
16	12	3.8	15	29	M5	3.1	M6	10	3.2
20	16	3.8	15	36.5	M5	3.1	M8	13	4
25	16	3.8	15	40.5	M5	3.1	M8	13	4
32	19	3.8	16	49.5	G1/8	3.1	M10x1.25	17	5
40	19	3.8	16	57.5	G1/8	3.1	M10x1.25	17	5
50	22	3.8	16	69.5	G1/8	3.1	M12x1.25	18	6
63	22	3.8	16	79.5	G1/8	3.1	M12x1.25	18	6
80	28	3.8	17	98 / ISO 21287:96	G1/8	3.1	M16x1.5	24	8
100	28	3.8	17	115.5	G1/8	3.1	M16x1.5	24	8

Piston Ø	LA	LA1	LW	LW*	MM f8	PL	RR min.	RT	SW
16	3.5	3.5	3.2	3.2	8	5	3.2	M4	7
20	4.8	4.6	3.7	3.7	10	5	4.1	M5	8
25	4.8	4.6	3.7	3.7	10	5	4.1	M5	8
32	4.8	4.8	5	5*	12	7.5	5.1	M6	10
40	4.8	4.8	5	5*	12	7.5	5.1	M6	10
50	4.8	4.8	5.7	4,8*	16	7.5	6.4	M8	13
63	4.8	4.8	5.7	4,8*	16	7.5	6.4	M8	13
80	0	0	7	6,4*	20	7.5	8.4	M10	16
100	0	0	7.5	6,4*	25	7.5	8.4	M10	21

Piston Ø	SW*	TG	WH	ZA +S	ZB+S
16	7	18 ±0,4	4,8 ±1,4	36	40.8
20	8	22 ±0,4	6 ±1,4	37	43
25	8	26 ±0,4	6 ±1,4	39	45
32	10*	32,5 ±0,5	7 ±1,6	44	51
40	10*	38 ±0,5	7 ±1,6	45	52
50	13*	46,5 ±0,6	8 ±1,6	45.5	53.5
63	13*	56,5 ±0,7	8 ±1,6	49	57
80	16*	72 ±0,7	10 ±2	54	64
100	21*	89 ±0,7	10 ±2	67	77

Dimensions

Ø80 - 100



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.