

AVENTICS Series CCI Compact cylinders (ISO 21287)

The AVENTICS Series CCI (ISO 21287) cylinders stand for innovative, compact construction and an easy to clean design. The Series CCI (ISO 21287) is ideal for long strokes and increased requirements for optimized cycle times and moving masses. The sensors can be installed quickly and easily on all sides and over the entire cylinder lengths.



Technical data

Industry	Industrial
Standards	ISO 21287
Piston Ø	40 mm
Stroke	20 mm
Ports	G 1/8
Functional principle	Double-acting
Cushioning	Elastic cushioning
Magnetic piston	Piston with magnet
Environmental requirements	Industry standard ATEX optional
Piston rod thread - type	Internal thread
Piston rod thread	M8
Piston rod	through
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Retracting piston force	560 N
Extracting piston force	560 N
Min. ambient temperature	-20 °C
Max. ambient temperature	80 °C
Min. working pressure	1 bar

Max. working pressure	10 bar
Impact energy	0.7 J
Weight 0 mm stroke	0.319 kg
Weight +10 mm stroke	0.06 kg
Stroke max.	300 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
Seal material	Polyurethane
Material, front cover	Aluminum
Cylinder tube	Aluminum
End cover	Aluminum
Part No.	R422001726

Technical information

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

The operating temperature range for ATEX-certified cylinders is -20°C ... 60°C.

With cylinders with a piston rod extension, dimensions "WH" and "ZB" are increased by the value of the piston rod extension.

Piston Ø 50/63, stroke < 5 mm: AF= 11 mm

Piston Ø 80/100, stroke < 5 mm: AF= 15 mm

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>).

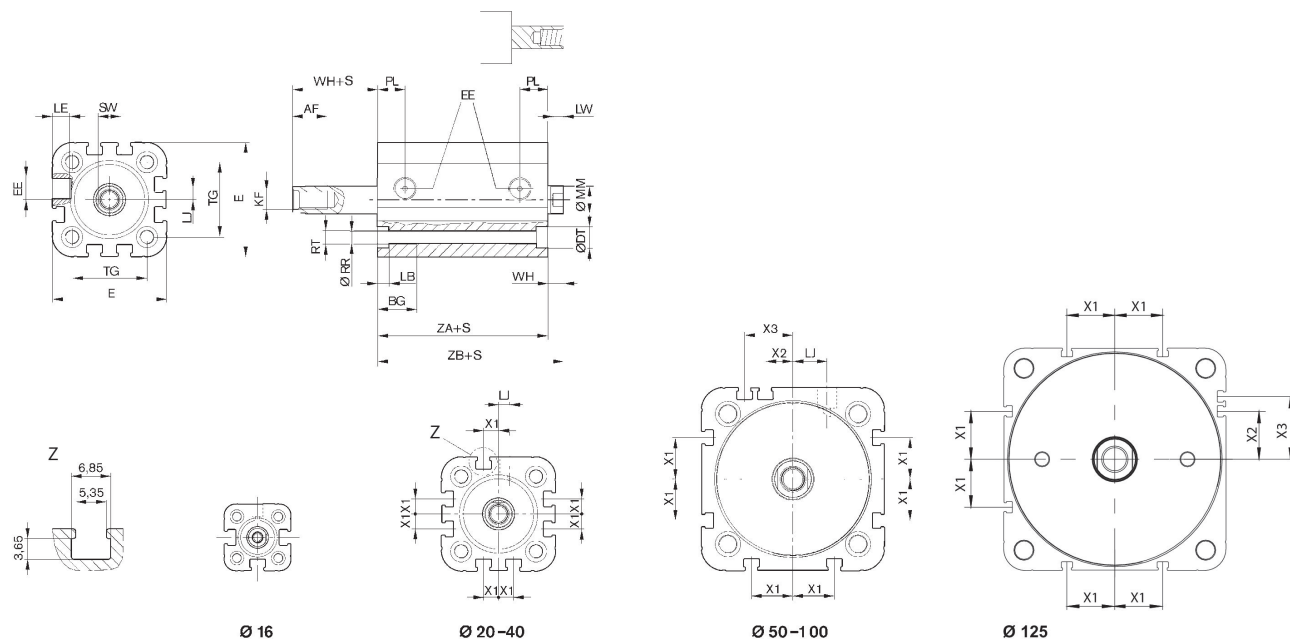
Compact cylinder ISO 21287, Series CCI

series CCI

R422001726

2023-11-23

Dimensions



Piston Ø	AF	BG	DT	E	EE	KF	LB	LE	LJ
16	10	15	6	29.3	M5	M4	3.5	4.5	-
20	12	15.5	7.5	36.3	M5	M6	4.5	4.5	4.5
25	12	15.5	8	40.3	M5	M6	4.5	4.5	4
32	12	17	8.6	50	G 1/8	M8	5	7.5	4.85
40	12	17	9.2	58	G 1/8	M8	5	7.5	9.85
50	16	17	11	68.3	G 1/8	M10	5	7.5	12
63	16	17	11	80	G 1/8	M10	5	7.5	14.8
80	20	20	15	96	G 1/8	M12	5	7.5	22
100	20	20	15	116	G 1/8	M12	5	7.5	27
125	25	35	-	134.6	G 1/4	M16	-	???	39

Piston Ø	LW	MM f8	PL	RR	RT 6H	SW	TG	WH	X1
16	4	8	8	3.3	M4	7	18	4,8 ±0,9	-
20	4	10	10	4.2	M5	8	22	5,6 ±0,9	4.2
25	4	10	10	4.2	M5	8	26	5,6 ±0,9	4.5
32	4.5	12	12	5.1	M6	10	32.5	7,4 ±0,9	6.5
40	4.5	12	12	5.1	M6	10	38	7,4 ±0,9	11
50	6	16	12	6.7	M8	13	46.5	8,4 ±0,9	13
63	6	16	12	6.7	M8	13	56.5	8,5 ±0,9	18
80	7	20	14	8.5	M10	16	72	9,8 ±1	18
100	7	25	16.5	8.5	M10	21	89	9,8 ±1	20
125	7.5	25	20.5	11.1	M12	21	110	11	29

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Piston Ø	X2	X3	ZA	ZB
16	–	–	34,9 ±0,1	39,7 ±0,8
20	–	–	37,3 ±0,1	43,6 ±0,8
25	–	–	39 ±0,1	44,5 ±0,9
32	–	–	44 ±0,1	51,4 ±1
40	–	–	45 ±0,1	52,4 ±1
50	4	13	45,5 ±0,1	53,6 ±1
63	12	21	49 ±0,1	57,4 ±1
80	16.5	25.5	54,7 ±0,1	64,4 ±1
100	20	29	67 ±0,1	76,7 ±1
125	29	38	81	92 ±1

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.