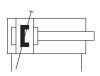
AVENTICS Series CCI Compact cylinders (ISO 21287)

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.





Industrial
ISO 21287
20 mm
10 mm
M5
Double-acting
Pneumatic pre-adjusted cushioning
Piston with magnet
Industry standard ATEX optional
External thread
M8x1,25
single
Standard Industry Scraper
6,3 bar
148 N
198 N
-20 °C
80 °C
1 bar



Compact cylinder ISO 21287, Series CCI

R481654444

Max. working pressure	10 bar
Cushioning energy	0.4 J
Weight 0 mm stroke	0.125 kg
Weight +10 mm stroke	0.023 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/m³
Max. oil content of compressed air	5 mg/m³

Material	
Piston rod	Stainless Steel
Scraper material	Polyurethane
Seal material	Polyurethane
Material, front cover	Brass
Cylinder tube	Aluminum
End cover	Aluminum
Nut for cylinder mounting	Steel, chrome-plated
Part No.	R481654444

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 external thread extension, dimension "A" is increased by the value of the thread extension.

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

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

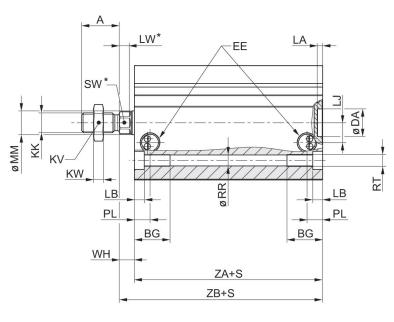
The oil content of compressed air must remain constant during the life cycle.

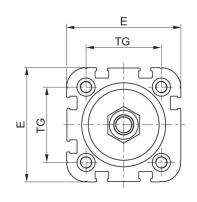
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



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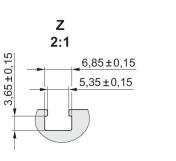
Dimensions

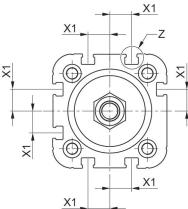


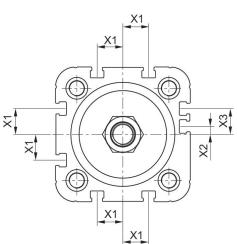


CCI-PC ø20-ø40

CCI-PC ø50-ø63







Piston Ø	А	BG	DA H11	DT	E	EE	KK	KV	KW
20	16	15.5	12	7.5	36.3	M5	M8x1.25	13	4
25	16	15.5	12	8	40.3	M5	M8x1.25	13	4
32	19	17	14	8.6	50	G 1/8	M10x1.25	16	5
40	19	17	14	9.2	58	G 1/8	M10x1.25	16	5
50	22	17	18	11	68.3	G 1/8	M12x1.25	18	6
63	22	17	18	11	80	G 1/8	M12x1.25	18	6
Piston Ø	LA	LB min.	LJ	MM f8	PL	RR min.	RT 6H	SW	TG
20	2.5	4.5	4.5	10	8	4.2	M5	8	22 ±0.4



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Compact cylinder ISO 21287, Series CCI

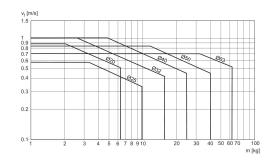
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Piston Ø	LA	LB min.	LJ	MM f8	PL	RR min.	RT 6H	SW	TG
25	2.5	4.5	4	10	8	4.2	M5	8	26 ±0.4
32	2.5	5	5	12	11	5.1	M6	10	32.5 ±0.5
40	2.5	5	10	12	7.9	5.1	M6	10	38 ±0.5
50	2.5	5	11.5	16	8	6.7	M8	13	46.5 ±0.6
63	2.5	5	15	16	8.2	6.7	M8	13	56.5 ±0.7
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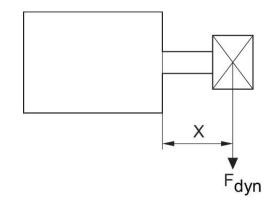
Piston Ø	WH	X1	X2	X3	ZA	ZB
20	5.6 ±1.4	4.2	-	-	37.3	42.9 ±0.8
25	5.6 ±1.4	4.5	-	-	39	44.6 ±0.9
32	7.5 ±1.6	6.5	-	-	44	51.5 ±1
40	7.5 ±1.6	11	-	-	45	52.1 ±1
50	8 ±1.6	13	4	13	45.5	53.1 ±1
63	8 ±1.6	18	12	21	49	57 ±1

Cushioning diagram



 v_t = Piston velocity [m/s] m = Cushionable mass [kg]

Maximum admissible lateral force dynamic



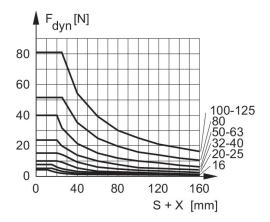
F dyn. = dynamic lateral force X = distance between force application point and cylinder cover

S = stroke



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Maximum admissible lateral force dynamic

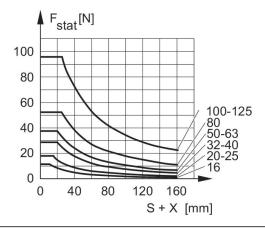


F dyn. = dynamic lateral force

X = distance between force application point and cylinder cover

S = stroke

Maximum admissible lateral force static

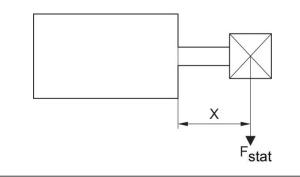


F stat. = static lateral force

X = distance between force application point and cylinder cover

S = stroke

Maximum admissible lateral force static



F stat. = static lateral force

X = distance between force application point and cylinder cover



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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.

