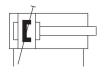
AVENTICS Series CCI Compact cylinders (ISO 21287)

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 30 mm **Ports** G 1/8

Functional principle Double-acting

Pneumatic pre-adjusted cushioning Cushioning

Magnetic piston Piston with magnet **Environmental requirements** Industry standard ATEX optional

External thread

Piston rod thread - type Piston rod thread M10x1,25 Piston rod single

Standard Industry Scraper Scraper

Pressure for determining piston forces 6,3 bar Retracting piston force 720 N 792 N Extracting piston force -20 °C Min. ambient temperature Max. ambient temperature 80°C Min. working pressure 1 bar



series CCI

Compact cylinder ISO 21287, Series CCI

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Max. working pressure10 barCushioning energy2.02 JWeight 0 mm stroke0.326 kgWeight +10 mm stroke0.052 kgStroke max.300 mm

Medium Compressed air

Min. medium temperature -20 °C Max. medium temperature 80 °C Max. particle size 50 μ m 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 Aluminum
Cylinder tube Aluminum
End cover Aluminum

Nut for cylinder mounting Steel, chrome-plated

Part No. R481654479

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.

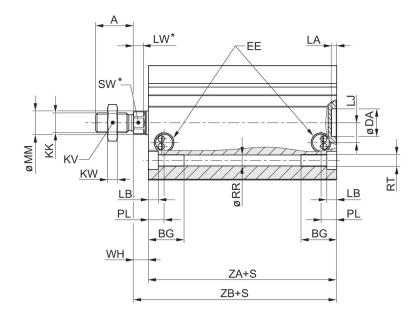
The oil content of compressed air must remain constant during the life cycle.

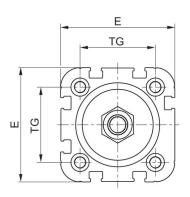
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

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Dimensions

 $3,65 \pm 0,15$

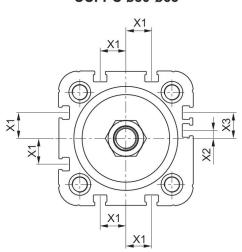




CCI-PC ø20-ø40

Z 2:1 5,35±0,15 X1 X1 X1

CCI-PC ø50-ø63



Piston Ø	А	BG	DA H11	DT		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

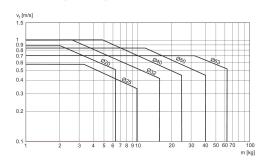
Pistor	Ø L	_A	LB min.	LJ	MM f8	PL	RR min.	RT 6H	SW	TG
20	2	2.5	4.5	4.5	10	8	4.2	M5	8	22 ±0.4

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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

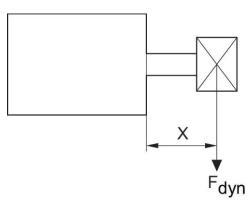
Piston Ø	WH	X1	X2	X3	ZA	ZB
20	5.6 ±1.4	4.2	-	-	37.3	42.9 ±0.8
25	5.6 ±1.4	4.5	-	-	39	44.6 ±0.9
32	7.5 ±1.6	6.5	-	-	44	51.5 ±1
40	7.5 ±1.6	11	-	-	45	52.1 ±1
50	8 ±1.6	13	4	13	45.5	53.1 ±1
63	8 ±1.6	18	12	21	49	57 ±1

Cushioning diagram



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

Maximum admissible lateral force dynamic

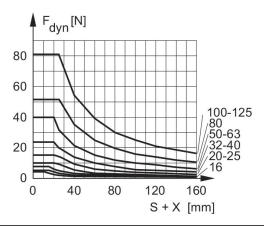


F dyn. = dynamic lateral force
X = distance between force application point and cylinder cover

S = stroke

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Maximum admissible lateral force dynamic

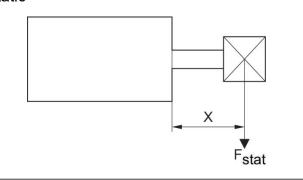


F dyn. = dynamic lateral force

X = distance between force application point and cylinder cover

S = stroke

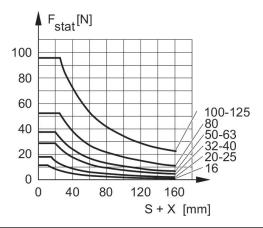
Maximum admissible lateral force static



F stat. = static lateral force

X = distance between force application point and cylinder cover

Maximum admissible lateral force static



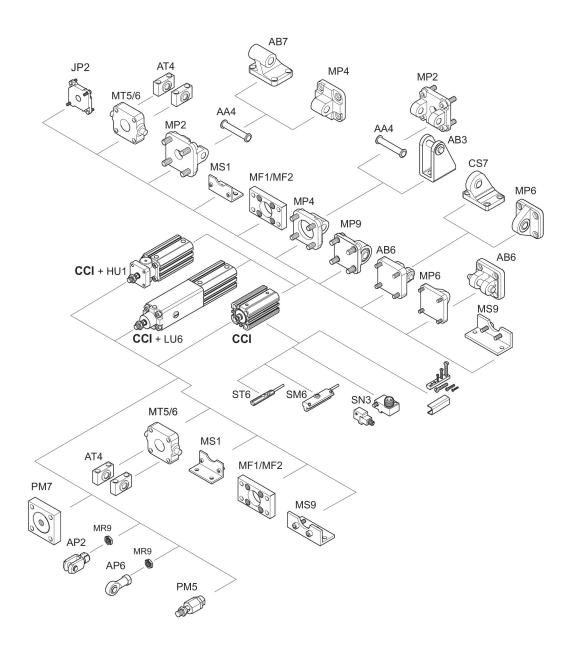
F stat. = static lateral force

X = distance between force application point and cylinder cover

S = stroke

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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.