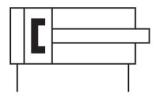
Compact cylinder ISO 21287, Series CCI

R481654421

General series information 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

IndustryIndustrialStandardsISO 21287Piston Ø20 mmStroke25 mmPortsM5

Functional principle Double-acting
Cushioning Pneumatically
Magnetic piston Piston with magnet
Environmental requirements Industry standard
ATEX optional

Piston rod single

Scraper Standard Industry Scraper

Pressure for determining piston forces 6,3 bar Retracting piston force 148 N 198 N Extracting piston force Min. ambient temperature -20 °C 80 °C Max. ambient temperature 1 bar Working pressure min. Working pressure max 10 bar Piston rod thread M6



Impact energy0.2 JWeight 0 mm stroke0.099 kgWeight +10 mm stroke0.023 kgStroke max.300 mm

Medium Compressed air

 $\begin{array}{lll} \mbox{Min. medium temperature} & -20 \ ^{\circ}\mbox{C} \\ \mbox{Max. medium temperature} & 80 \ ^{\circ}\mbox{C} \\ \mbox{Max. particle size} & 50 \ \mu\mbox{m} \\ \mbox{Oil content of compressed air min.} & 0 \ \mbox{mg/m}^{3} \\ \mbox{Oil content of compressed air max.} & 5 \ \mbox{mg/m}^{3} \end{array}$

Material

Piston rod Stainless Steel
Scraper material Polyurethane
Seal material Polyurethane
Material, front cover Aluminum
Cylinder tube Aluminum
End cover Aluminum
Part No. R481654421

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.

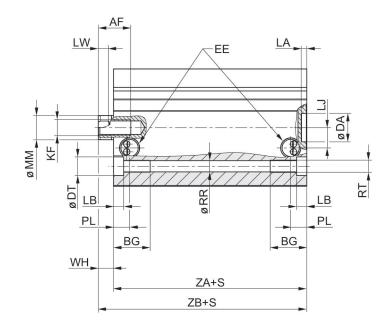
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

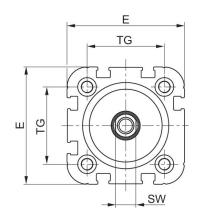
The oil content of compressed air must remain constant during the life cycle.

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).

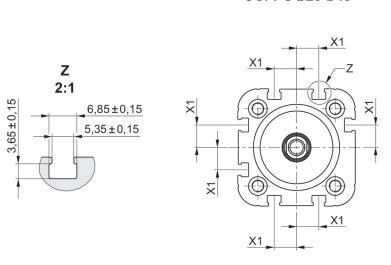


Dimensions

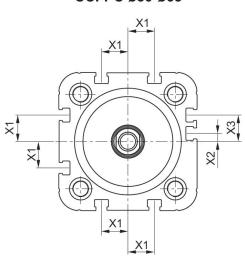




CCI-PC ø20-ø40



CCI-PC ø50-ø63



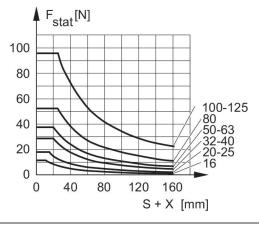
Piston Ø	AF	BG	DA H11	DT	Е	EE	KF	LA	LB
20	12	15.5	12	7.5	36.3	M5	M6	2.5	4.5
25	12	15.5	12	8	40.3	M5	M6	2.5	4.5
32	12	17	14	9.2	50	G 1/8	M8	2.5	5
40	12	17	14	9.2	58	G 1/8	M8	2.5	5
50	16	17	18	11	68.3	G 1/8	M10	2.5	5
63	16	17	18	11	80	G 1/8	M10	2.5	5



Piston Ø	LE	LJ	LW	MM f8	PL	RR	RT 6H	SW	TG
20	4.5	4.5	3.7	10	8	4.2	M5	8	22
25	4.5	4	3.7	10	8	4.2	M5	8	26
32	7.5	5	5	12	11	5.1	M6	10	32.5
40	7.5	10	5	12	7,9	5.1	M6	10	38
50	7.5	11.5	5,7	16	8	6.7	M8	13	46.5
63	7.5	15	5,7	16	8,2	6.7	M8	13	56.5

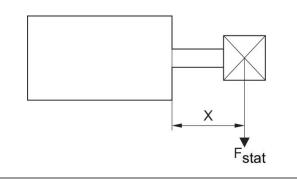
Piston Ø	WH	X1	X2	X3	ZA ±0,1	ZB
20	5,6 ±0,9	4.2	-	-	37.3	42,9 ±0,8
25	5,6 ±0,9	4.5	-	-	39	44,6 ±0,9
32	7,5 ±0,9	6.5	-	-	44	51,5 ±1
40	7,5 ±0,9	11	-	-	45	52,1 ±1
50	8 ±0,9	13	4	13	45.5	53,1 ±1
63	8 ±0,9	18	12	21	49	57 ±1

Maximum admissible lateral force static



X = distance between force application point and cylinder cover S = stroke

Maximum admissible lateral force static

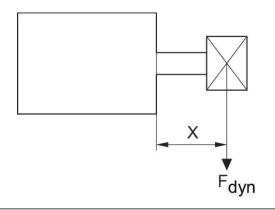


F stat. = static lateral force

X = distance between force application point and cylinder cover



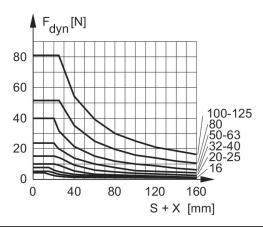
Maximum admissible lateral force dynamic



F dyn. = dynamic lateral force

X = distance between force application point and cylinder cover S = stroke

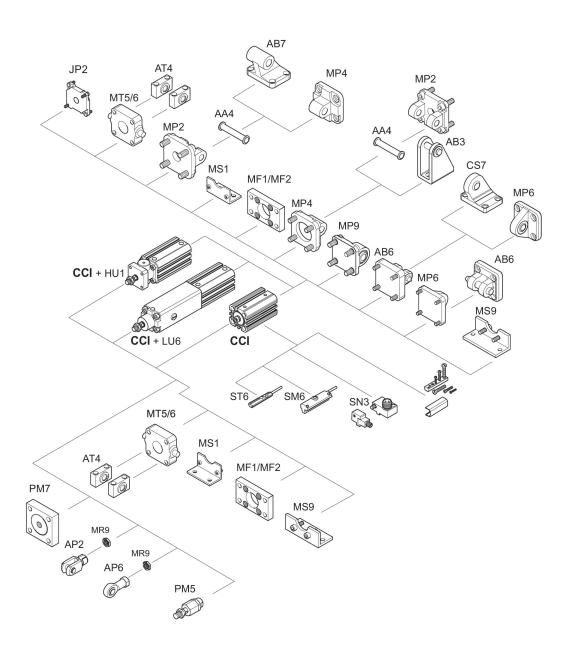
Maximum admissible lateral force dynamic



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



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.

