Compact cylinder ISO 21287, Series CCI

R481654375

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

- Industry Standards Piston Ø Stroke Ports Functional principle Cushioning Magnetic piston Environmental requirements
- Piston rod Scraper Pressure for determining piston forces Retracting piston force Extracting piston force Min. ambient temperature Max. ambient temperature Working pressure min. Working pressure max Piston rod thread
- Industrial ISO 21287 32 mm 5 mm G 1/8 Double-acting Pneumatically Piston with magnet Industry standard ATEX optional single Standard Industry Scraper 6,3 bar 435 N 507 N -20 °C 3° 08 1 bar 10 bar M8



Impact energy	0.5 J
Weight 0 mm stroke	0.233 kg
Weight +10 mm stroke	0.042 kg
Stroke max.	300 mm
Medium	Compressed air
Min. medium temperature	-20 °C
Max. medium temperature	3° 08
Max. particle size	50 µm
Oil content of compressed air min.	0 mg/m³
Oil content of compressed air max.	5 mg/m³

Material

Piston rod	Stainless Steel
Scraper material	Polyurethane
Seal material	Polyurethane
Material, front cover	Aluminum
Cylinder tube	Aluminum
End cover	Aluminum
Part No.	R481654375

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.

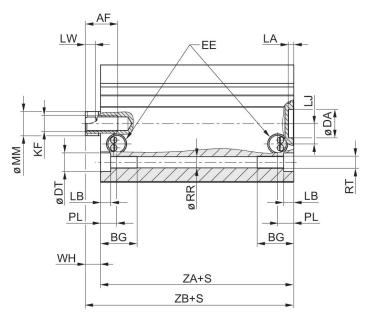
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

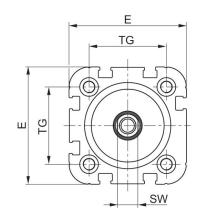
The oil content of compressed air must remain constant during the life cycle.

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

X1

 \bigcirc

C

X1

X

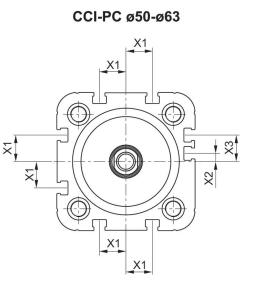
X

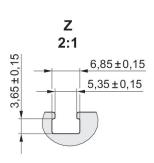
X1

X1

Ζ

X





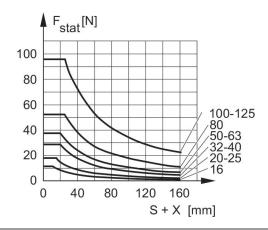
Piston Ø	AF	BG	DA H11	DT	E	EE	KF	LA	LB
20	12	15.5	12	7.5	36.3	M5	M6	2.5	4.5
25	12	15.5	12	8	40.3	M5	M6	2.5	4.5
32	12	17	14	9.2	50	G 1/8	M8	2.5	5
40	12	17	14	9.2	58	G 1/8	M8	2.5	5
50	16	17	18	11	68.3	G 1/8	M10	2.5	5
63	16	17	18	11	80	G 1/8	M10	2.5	5



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

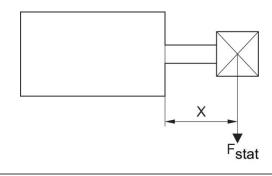
Maximum admissible lateral force static



F stat. = static lateral force

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

Maximum admissible lateral force static

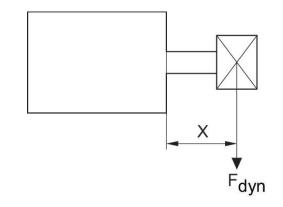


F stat. = static lateral force

 ${\sf X}$ = distance between force application point and cylinder cover



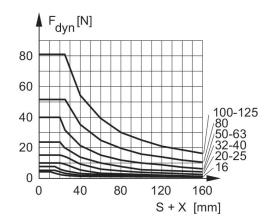
Maximum admissible lateral force dynamic



F dyn. = dynamic lateral force

 ${\sf X}$ = distance between force application point and cylinder cover ${\sf S}$ = stroke

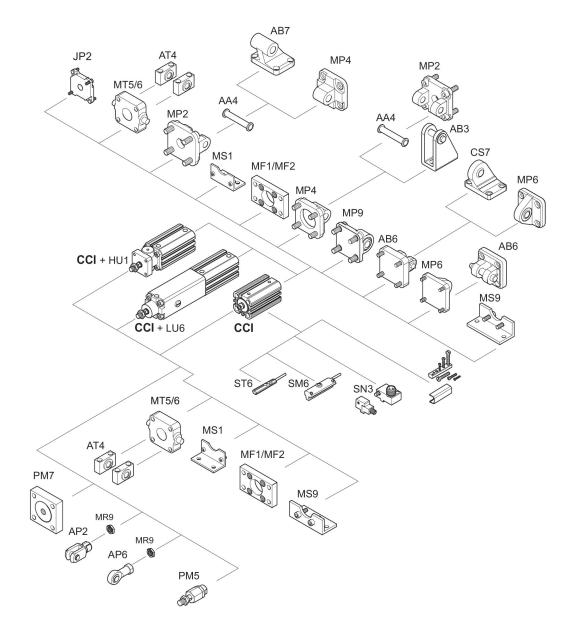
Maximum admissible lateral force dynamic



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.

