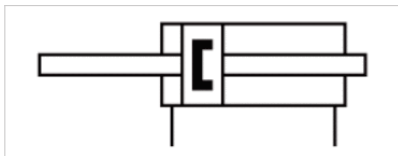


Compact cylinder ISO 21287, Series CCI

- Ø 16-100 mm
- Ports M5, G 1/8
- double-acting
- with magnetic piston
- Cushioning elastic
- Piston rod Internal thread
- Piston rod through
- ATEX optional



Standards	ISO 21287
Compressed air connection	Internal thread
Working pressure min./max.	1 ... 10 bar
Ambient temperature min./max.	-20 ... 80 °C
Medium temperature min./max.	-20 ... 80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Pressure for determining piston forces	6 bar

Technical data

Piston Ø	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm	63 mm	80 mm
Piston rod thread	M4	M6	M6	M8	M8	M10	M10	M12
Ports	M5	M5	M5	G 1/8	G 1/8	G 1/8	G 1/8	G 1/8
Piston rod Ø	8 mm	10 mm	10 mm	12 mm	12 mm	16 mm	16 mm	20 mm
Stroke 5	R422001692	R422001693	R422001694	R422001695	R422001696	R422001697	R422001698	R422001699
10	R422001702	R422001703	R422001704	R422001705	R422001706	R422001707	R422001708	R422001709
15	R422001712	R422001713	R422001714	R422001715	R422001716	R422001717	R422001718	R422001719
20	R422001722	R422001723	R422001724	R422001725	R422001726	R422001727	R422001728	R422001729
25	R422001732	R422001733	R422001734	R422001735	R422001736	R422001737	R422001738	R422001739

Piston Ø	100 mm
Piston rod thread	M12
Ports	G 1/8
Piston rod Ø	25 mm
Stroke 5	R422001700
10	R422001710
15	R422001720
20	R422001730

Piston Ø Piston rod thread Ports Piston rod Ø	100 mm M12 G 1/8 25 mm
25	R422001740

Technical data

Piston Ø	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm	63 mm	80 mm	100 mm
Retracting piston force	91 N	137 N	216 N	364 N	560 N	871 N	1478 N	2397 N	3886 N
Extracting piston force	91 N	137 N	216 N	364 N	560 N	871 N	1478 N	2397 N	3886 N
Impact energy	0,11 J	0,15 J	0,2 J	0,4 J	0,52 J	0,64 J	0,75 J	0,75 J	1 J
Weight 0 mm stroke	0,064 kg	0,107 kg	0,128 kg	0,246 kg	0,319 kg	0,472 kg	0,718 kg	1,182 kg	2,278 kg
Weight +10 mm stroke	0,02	0,029	0,032	0,052	0,06	0,087	0,103	0,14	0,206
Stroke max.	300 mm	300 mm	300 mm	300 mm	300 mm	300 mm	300 mm	500 mm	500 mm

Technical information

The pressure dew point must be at least 15 °C under 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 the MediaCentre).

ATEX-certified cylinders with identification II 2G c IIB T4 / II 2D c IP65 T125°C X can be generated in the Internet configurator.

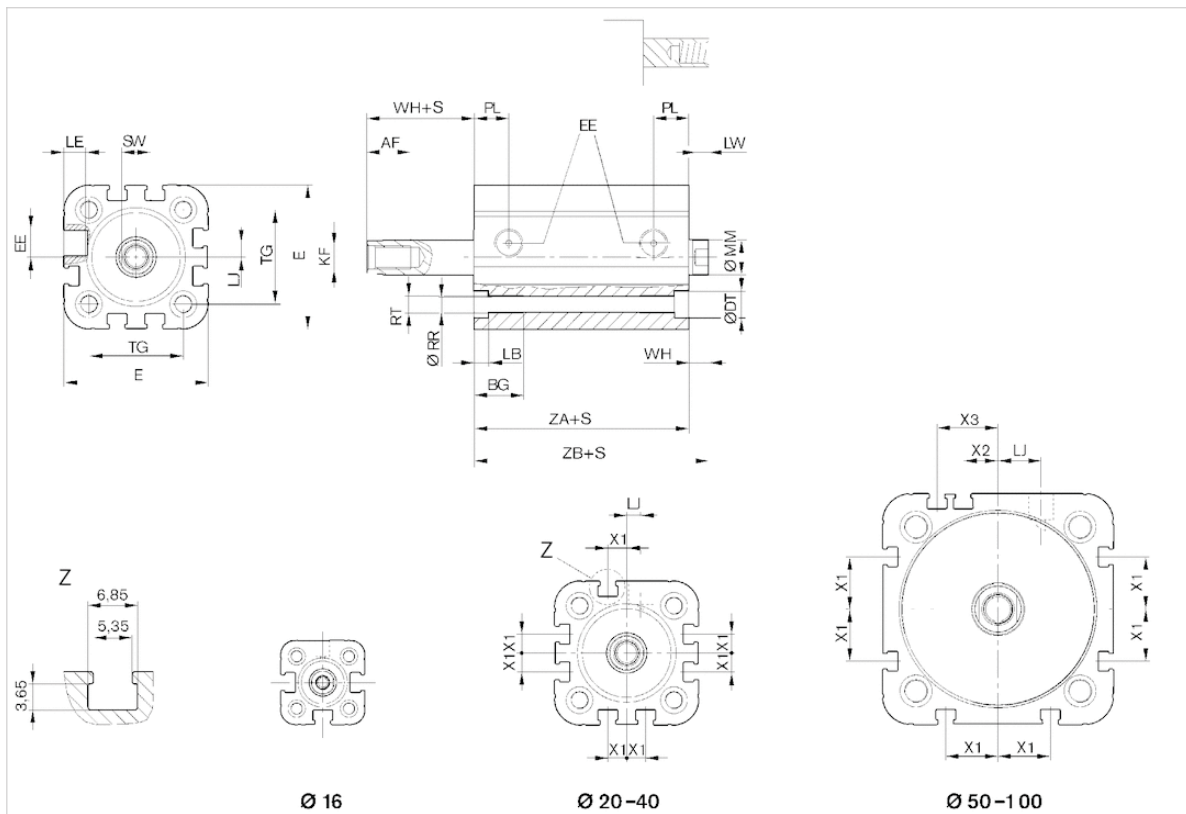
The operating temperature range for ATEX-certified cylinders is - 20 °C ... 50 °C .

Technical information

Material	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Scraper	Polyurethane

Dimensions

Ø 16 mm ... 100 mm



S = stroke

Dimensions

Piston Ø	AF	BG	DT	E	EE	KF	LB	LE	LJ	LW	MM f8	PL	RR	RT 6H	SW	TG	WH 3)	X1	X2	X3	ZA
16 mm	10	15	6	29.3	M5	M4	3.5	4.5	—	4	8	8	3.3	M4	7	18	4,8 ±0,9	—	—	—	34,9 ±0,1
20 mm	12	15.5	7.5	36.3	M5	M6	4.5	4.5	4.5	4	10	10	4.2	M5	8	22	6,3 ±0,9	4.2	—	—	37,3 ±0,1
25 mm	12	15.5	8	40.3	M5	M6	4.5	4.5	4	4	10	10	4.2	M5	8	26	5,6 ±0,9	4.5	—	—	39 ±0,1
32 mm	12	17	9.2	50	G 1/8	M8	5	7.5	4.85	4.5	12	12	5.1	M6	10	32.5	7,4 ±0,9	6.5	—	—	44 ±0,1
40 mm	12	17	9.2	58	G 1/8	M8	5	7.5	9.85	4.5	12	12	5.1	M6	10	38	7,4 ±0,9	11	—	—	45 ±0,1
50 mm	16 1)	17	11	68.3	G 1/8	M10	5	7.5	12	6	16	12	6.7	M8	13	46.5	8,4 ±0,9	13	4	13	45,5 ±0,1
63 mm	16 1)	17	11	80	G 1/8	M10	5	7.5	14.8	6	16	12	6.7	M8	13	56.5	8,5 ±0,9	18	12	21	49 ±0,1
80 mm	20 2)	20	15	96	G 1/8	M12	5	7.5	22	7	20	14	8.5	M10	16	72	9,8 ±1	18	16.5	25.5	54,7 ±0,1
100 mm	20 2)	20	15	116	G 1/8	M12	5	7.5	27	7	25	16.5	8.5	M10	21	89	9,8 ±1	20	20	29	67 ±0,1

Piston Ø	ZB 3)
16 mm	39,7 ±0,8
20 mm	43,6 ±0,8
25 mm	44,5 ±0,9
32 mm	51,4 ±1

PDF creation date: 23.07.2018

Piston Ø	ZB 3)
40 mm	52,4 ±1
50 mm	53,6 ±1
63 mm	57,4 ±1
80 mm	64,4 ±1
100 mm	76,7 ±1

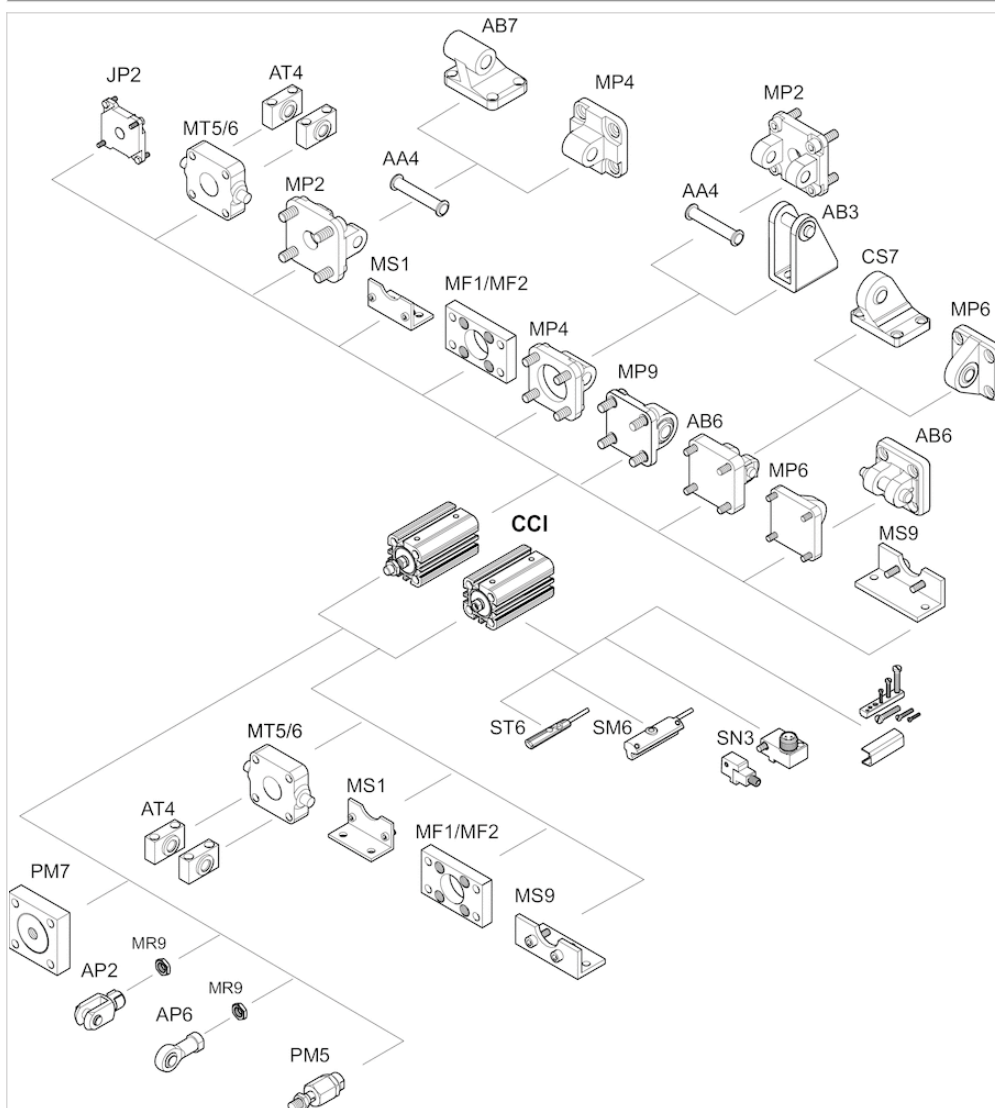
1) Stroke 5 mm: AF= 11 mm

2) Stroke 5 mm: AF= 15 mm

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

Accessories overview

Overview drawing



Due to the high possible forces, not all add-on parts are suitable for CCI tandem (see CCI-TD accessories overview).

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.