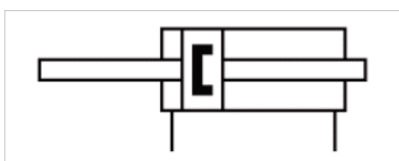


Compact cylinder ISO 21287, Series CCI

- Ø 16-100 mm
- Ports M5, G 1/8
- double-acting
- with magnetic piston
- Cushioning elastic
- Piston rod External 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 Piston rod thread Ports Piston rod Ø	16 mm M6x1 M5 8 mm	20 mm M8x1,25 M5 10 mm	25 mm M8x1,25 M5 10 mm	32 mm M10x1,25 G 1/8 12 mm	40 mm M10x1,25 G 1/8 12 mm	50 mm M12x1,25 G 1/8 16 mm	63 mm M12x1,25 G 1/8 16 mm	80 mm M16x1,5 G 1/8 20 mm
Stroke 5	R422001742	R422001743	R422001744	R422001745	R422001746	R422001747	R422001748	R422001749
10	R422001752	R422001753	R422001754	R422001755	R422001756	R422001757	R422001758	R422001759
15	R422001762	R422001763	R422001764	R422001765	R422001766	R422001767	R422001768	R422001769
20	R422001772	R422001773	R422001774	R422001775	R422001776	R422001777	R422001778	R422001779
25	R422001782	R422001783	R422001784	R422001785	R422001786	R422001787	R422001788	R422001789

Piston Ø Piston rod thread Ports Piston rod Ø	100 mm M16x1,5 G 1/8 25 mm
Stroke 5	R422001750
10	R422001760
15	R422001770
20	R422001780

Piston Ø Piston rod thread Ports Piston rod Ø	100 mm M16x1,5 G 1/8 25 mm
25	R422001790

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	0,072 kg	0,145 kg	0,166 kg	0,293 kg	0,366 kg	0,552 kg	0,797 kg	1,331 kg	2,428 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.

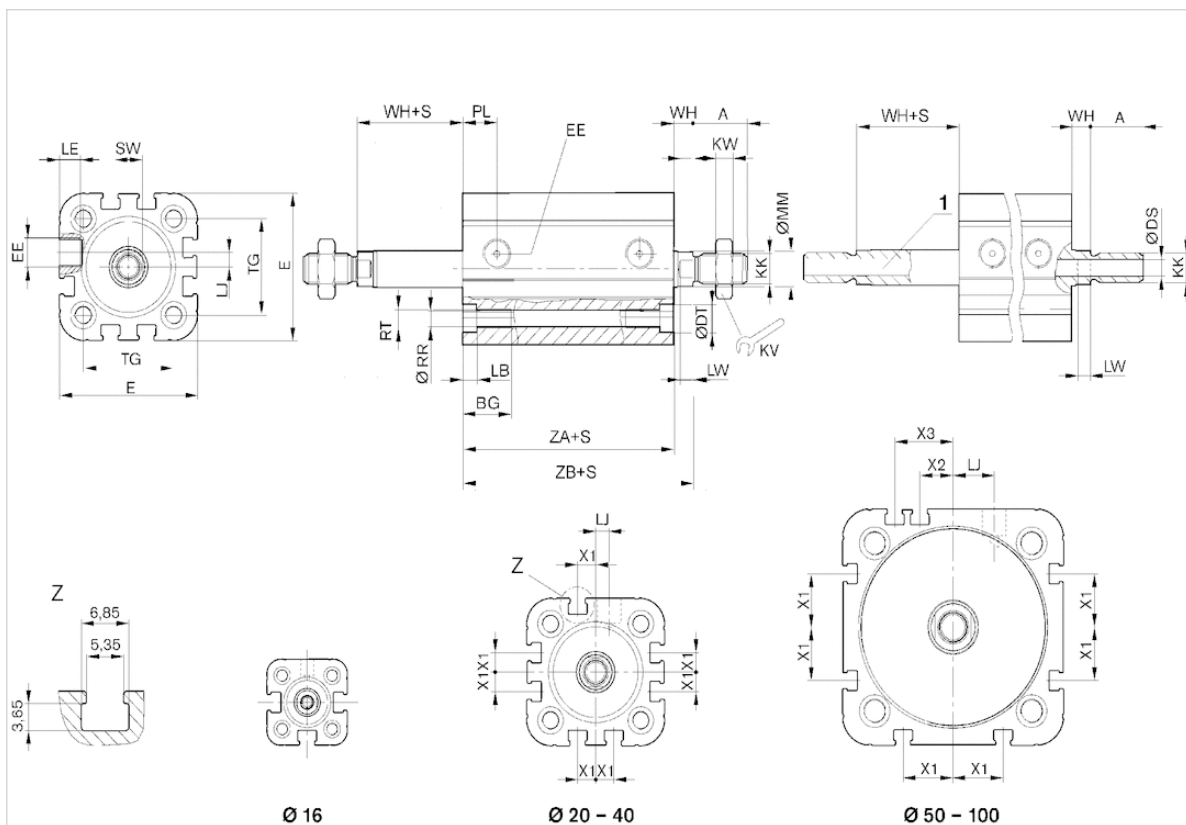
The operating temperature range for ATEX-certified cylinders is - 20 °C ... 50 °C .

Technical information

Material	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Nut for piston rod	Steel, galvanized
Scraper	Polyurethane

Dimensions

Ø 16 mm ... 100 mm



1) Hollow piston rod (to be generated by Internet configurator)
S = stroke

Dimensions

Piston Ø	A 1)	BG	Ø DS	DT	E	EE	KK 3)	KV	KW	LB	LE	LJ	LK	LW	MM f8	PL	RR	RT 6H	SW	TG
16 mm	12	15	2	6	29.3	M5	M6 / M5	10	3	3.5	4.5	0	1.6	4	8	8	3.3	M4	7	18
20 mm	16	15.5	3.8	7.5	36.3	M5	M8 / G 1/8	13	4	4.5	4.5	4.5	2.5	4	10	10	4.2	M5	8	22
25 mm	16	15.5	3.8	8	40.3	M5	M8 / G 1/8	13	4	4.5	4.5	4	2.5	4	10	10	4.2	M5	8	26
32 mm	19	17	4.5	9.2	50	G 1/8	M10x1,25 / G 1/8	17	5	5	7.5	4.85	2.5	4.5	12	12	5.1	M6	10	32.5
40 mm	19	17	4.5	9.2	58	G 1/8	M10x1,25 / G 1/8	17	5	5	7.5	9.85	2.5	4.5	12	12	5.1	M6	10	38
50 mm	22	17	6	11	68.3	G 1/8	M12x1,25 / G 1/4	19	6	5	7.5	12	3.5	6	16	12	6.7	M8	13	46.5
63 mm	22	17	6	11	80	G 1/8	M12x1,25 / G 1/4	19	6	5	7.5	14.8	3.5	6	16	12	6.7	M8	13	56.5
80 mm	28	20	8	15	96	G 1/8	M16x1,5 / M16x1,5	24	8	5	7.5	22	3.5	7	20	14	8.5	M10	16	72
100 mm	28	20	8	15	116	G 1/8	M16x1,5 / M16x1,5	24	8	5	7.5	27	3.5	7	25	16.5	8.5	M10	21	89

Piston Ø	WH 2)	X1	X2	X3	ZA	ZB 2)
16 mm	4,8 ±0,9	—	—	—	34,9 ±0,1	39,7 ±0,8
20 mm	6,3 ±0,9	4.2	—	—	37,3 ±0,1	43,6 ±0,8
25 mm	5,6 ±0,9	4.5	—	—	39 ±0,1	44,5 ±0,9

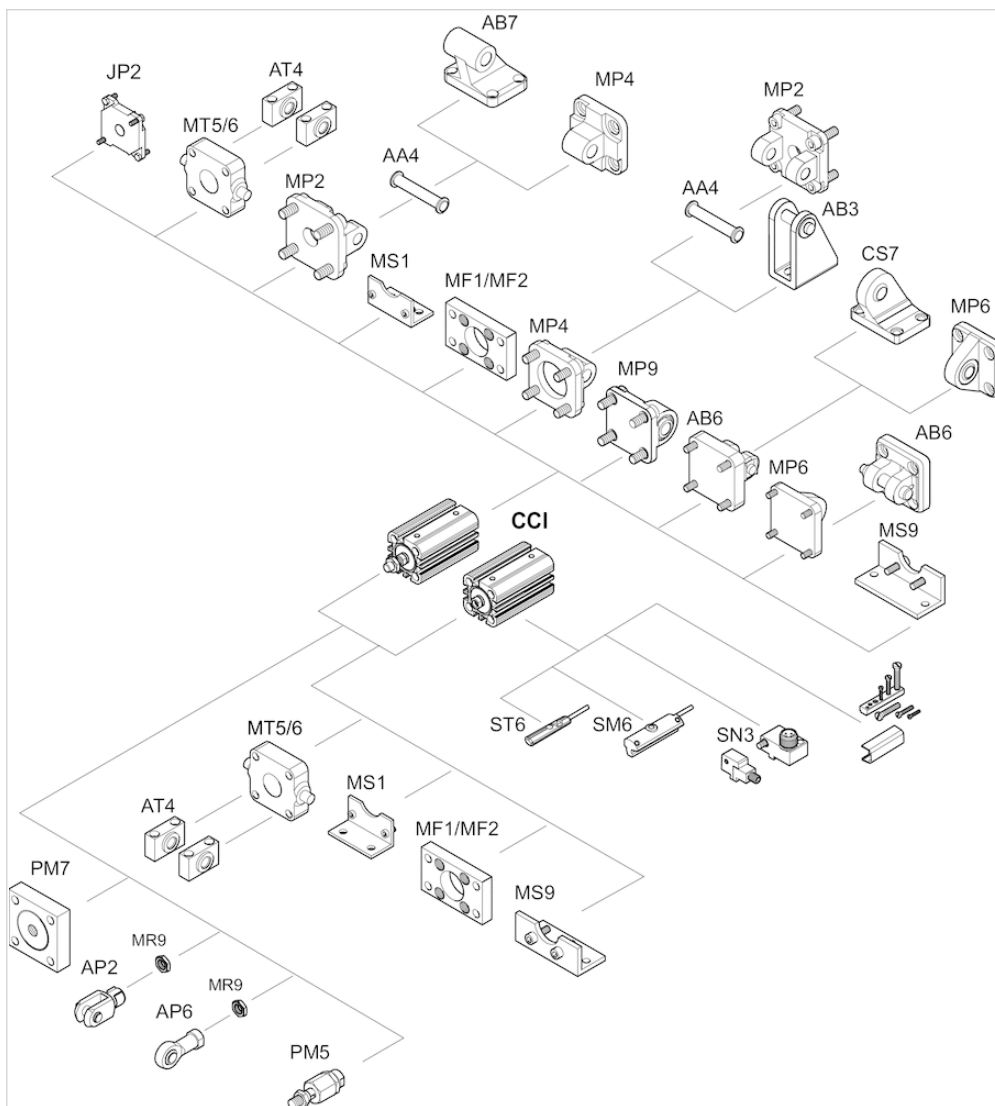
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Piston Ø	WH 2)	X1	X2	X3	ZA	ZB 2)
32 mm	7,4 ±0,9	6.5	–	–	44 ±0,1	51,4 ±1
40 mm	7,4 ±0,9	11	–	–	45 ±0,1	52,4 ±1
50 mm	8,4 ±0,9	13	4	13	45,5 ±0,1	53,6 ±1
63 mm	8,5 ±0,9	18	12	21	49 ±0,1	57,4 ±1
80 mm	9,8 ±1	18	16.5	25.5	54,7 ±0,1	64,4 ±1
100 mm	9,8 ±1	20	20	29	67 ±0,1	76,7 ±1

- 1) With cylinders with external thread extension, dimension "A" is increased by the value of the thread extension.
- 2) With cylinders with a piston rod extension, dimensions "WH" and "ZB" are increased by the value of the piston rod extension.
- 3) Solid piston rod/hollow piston rod

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.