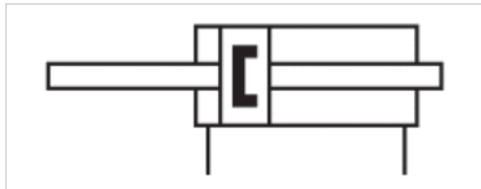


Compact cylinder ISO 21287, Series CCI

- ISO 21287
- 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
Certificates	ATEX optional
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	6.3 bar



Technical data

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

Piston Ø Piston rod thread Ports Piston rod Ø	63 mm M10 G 1/8 16 mm	80 mm M12 G 1/8 20 mm	100 mm M12 G 1/8 25 mm
Stroke 5	R422001698	R422001699	R422001700
10	R422001708	R422001709	R422001710

Piston Ø Piston rod thread Ports Piston rod Ø	63 mm M10 G 1/8 16 mm	80 mm M12 G 1/8 20 mm	100 mm M12 G 1/8 25 mm
15	R422001718	R422001719	R422001720
20	R422001728	R422001729	R422001730
25	R422001738	R422001739	R422001740

Technical data

Piston Ø	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm	63 mm
Retracting piston force	91 N	137 N	216 N	364 N	560 N	871 N	1478 N
Extracting piston force	91 N	137 N	216 N	364 N	560 N	871 N	1478 N
Impact energy	0,15 J	0,2 J	0,3 J	0,5 J	0,7 J	1 J	1,3 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
Weight +10 mm stroke	0,02 kg	0,029 kg	0,032 kg	0,052 kg	0,06 kg	0,087 kg	0,103 kg
Stroke max.	300 mm	300 mm	300 mm	300 mm	300 mm	300 mm	300 mm

Piston Ø	80 mm	100 mm
Retracting piston force	2397 N	3886 N
Extracting piston force	2397 N	3886 N
Impact energy	1,8 J	2,5 J
Weight 0 mm stroke	1,18 kg	2,28 kg
Weight +10 mm stroke	0,14 kg	0,206 kg
Stroke max.	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 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.

Piston Ø 50/63, stroke 5 mm: AF= 11 mm

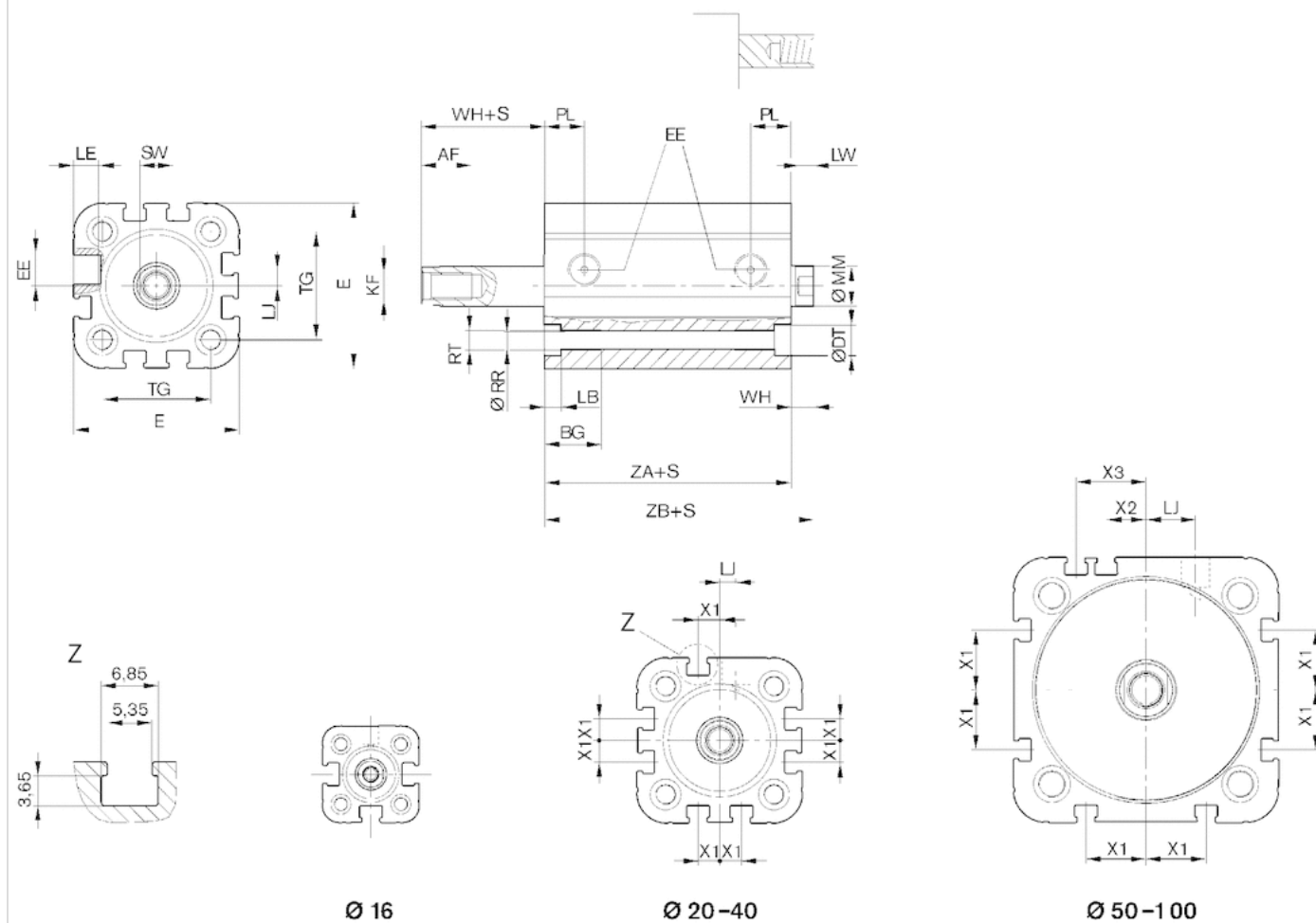
Piston Ø 80/100, stroke 5 mm: AF= 15 mm

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

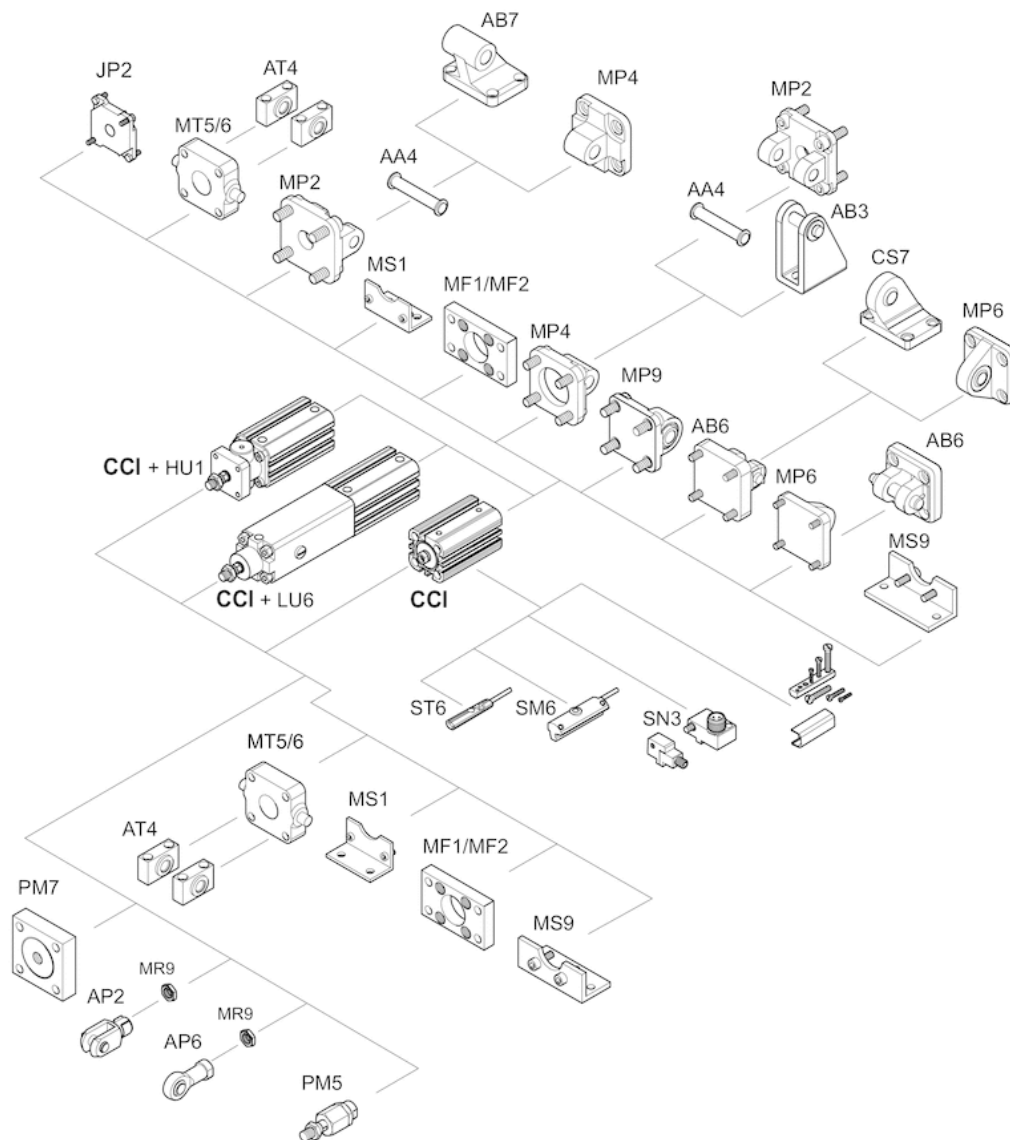
Piston Ø	AF	BG	DT	E	EE	KF	LB	LE	LJ	LW	MM f8	PL	RR	RT 6H	SW	TG	WH
16 mm	10	15	6	29.3	M5	M4	3.5	4.5	—	4	8	8	3.3	M4	7	18	4,8 ±0,9
20 mm	12	15.5	7.5	36.3	M5	M6	4.5	4.5	4.5	4	10	10	4.2	M5	8	22	5,6 ±0,9
25 mm	12	15.5	8	40.3	M5	M6	4.5	4.5	4	4	10	10	4.2	M5	8	26	5,6 ±0,9
32 mm	12	17	8.6	50	G 1/8	M8	5	7.5	4.85	4.5	12	12	5.1	M6	10	32.5	7,4 ±0,9
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
50 mm	16	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

Piston Ø	AF	BG	DT	E	EE	KF	LB	LE	LJ	LW	MM f8	PL	RR	RT 6H	SW	TG	WH
63 mm	16	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
80 mm	20	20	15	96	G 1/8	M12	5	7.5	22	7	20	14	8.5	M10	16	72	9,8 ±1
100 mm	20	20	15	116	G 1/8	M12	5	7.5	27	7	25	16.5	8.5	M10	21	89	9,8 ±1

Piston Ø	X1	X2	X3	ZA	ZB
16 mm	–	–	–	34,9 ±0,1	39,7 ±0,8
20 mm	4.2	–	–	37,3 ±0,1	43,6 ±0,8
25 mm	4.5	–	–	39 ±0,1	44,5 ±0,9
32 mm	6.5	–	–	44 ±0,1	51,4 ±1
40 mm	11	–	–	45 ±0,1	52,4 ±1
50 mm	13	4	13	45,5 ±0,1	53,6 ±1
63 mm	18	12	21	49 ±0,1	57,4 ±1
80 mm	18	16.5	25.5	54,7 ±0,1	64,4 ±1
100 mm	20	20	29	67 ±0,1	76,7 ±1

Accessories overview

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.

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