

# Compact cylinder ISO 21287, Series CCI

- Ø 16 mm
- Ports M5
- double-acting
- with magnetic piston
- Cushioning elastic
- Piston rod External 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/m <sup>3</sup>
Pressure for determining piston forces	6.3 bar

## Technical data

	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm
Piston Ø	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm
Piston rod thread	M6x1	M8x1,25	M8x1,25	M10x1,25	M10x1,25	M12x1,25
Ports	M5	M5	M5	G 1/8	G 1/8	G 1/8
Piston rod Ø	8 mm	10 mm	10 mm	12 mm	12 mm	16 mm
Stroke 5	R422001742	R422001743	R422001744	R422001745	R422001746	R422001747
10	R422001752	R422001753	R422001754	R422001755	R422001756	R422001757
15	R422001762	R422001763	R422001764	R422001765	R422001766	R422001767
20	R422001772	R422001773	R422001774	R422001775	R422001776	R422001777
25	R422001782	R422001783	R422001784	R422001785	R422001786	R422001787

	63 mm	80 mm	100 mm
Piston Ø	63 mm	80 mm	100 mm
Piston rod thread	M12x1,25	M16x1,5	M16x1,5
Ports	G 1/8	G 1/8	G 1/8
Piston rod Ø	16 mm	20 mm	25 mm
Stroke 5	R422001748	R422001749	R422001750
10	R422001758	R422001759	R422001760
15	R422001768	R422001769	R422001770
20	R422001778	R422001779	R422001780
25	R422001788	R422001789	R422001790

## 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 T135°C X can be generated in the Internet configurator.

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

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

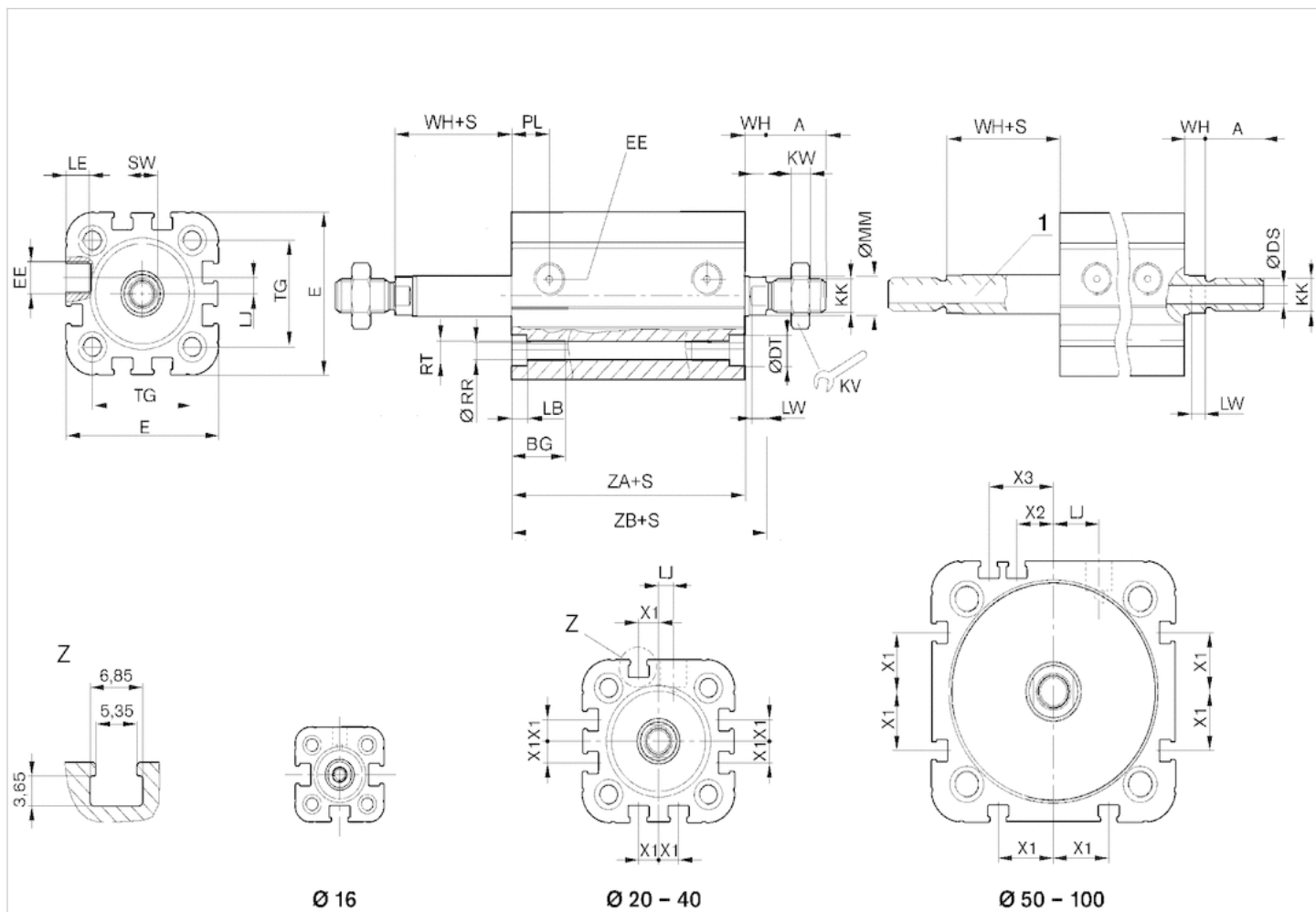
Piston Ø	80 mm	100 mm
Retracting piston force	2397 N	3886 N
Extracting piston force	2397 N	3886 N
Impact energy	1,8 J	2,5 J
Weight 0 mm stroke	1,33 kg	2,43 kg
Weight +10 mm stroke	0,14 kg	0,206 kg
Stroke max.	500 mm	500 mm

## 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
16 mm	12	15	2	6	29.3	M5	M6 / M5	10	3	3.5	4.5	0	1.6	4
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
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
32 mm	19	17	4.5	8.6	50	G 1/8	M10x1,25 / G 1/8	17	5	5	7.5	4.85	2.5	4.5
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
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
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
80 mm	28	20	8	15	96	G 1/8	M16x1,5 / M16x1,5	24	8	5	7.5	22	3.5	7
100 mm	28	20	8	15	116	G 1/8	M16x1,5 / M16x1,5	24	8	5	7.5	27	3.5	7

Piston Ø	MM f8	PL	RR	RT 6H	SW	TG	WH 2)	X1	X2	X3	ZA	ZB 2)
16 mm	8	8	3.3	M4	7	18	4,8 ±0,9	-	-	-	34,9 ±0,1	39,7 ±0,8
20 mm	10	10	4.2	M5	8	22	6,3 ±0,9	4.2	-	-	37,3 ±0,1	43,6 ±0,8
25 mm	10	10	4.2	M5	8	26	5,6 ±0,9	4.5	-	-	39 ±0,1	44,5 ±0,9

Piston Ø	MM f8	PL	RR	RT 6H	SW	TG	WH 2)	X1	X2	X3	ZA	ZB 2)
32 mm	12	12	5.1	M6	10	32.5	7,4 ±0,9	6.5	–	–	44 ±0,1	51,4 ±1
40 mm	12	12	5.1	M6	10	38	7,4 ±0,9	11	–	–	45 ±0,1	52,4 ±1
50 mm	16	12	6.7	M8	13	46.5	8,4 ±0,9	13	4	13	45,5 ±0,1	53,6 ±1
63 mm	16	12	6.7	M8	13	56.5	8,5 ±0,9	18	12	21	49 ±0,1	57,4 ±1
80 mm	20	14	8.5	M10	16	72	9,8 ±1	18	16.5	25.5	54,7 ±0,1	64,4 ±1
100 mm	25	16.5	8.5	M10	21	89	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