

# ISO 21287, Series CCL-IC

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



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

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	R480668787	R480668796	R480668805	R480668814	R480668827	R480668840
10	R480668788	R480668797	R480668806	R480668815	R480668828	R480668841
15	R480668789	R480668798	R480668807	R480668816	R480668829	R480668842
20	R480668790	R480668799	R480668808	R480668817	R480668830	R480668843
25	R480668791	R480668800	R480668809	R480668818	R480668831	R480668844
30	R480668792	R480668801	R480668810	R480668819	R480668832	R480668845
40	R480668793	R480668802	R480668811	R480668820	R480668833	R480668846
50	R480668794	R480668803	R480668812	R480668821	R480668834	R480668847
60	R480668795	R480668804	R480668813	R480668822	R480668835	R480668848
80	-	-	-	R480668823	R480668836	R480668849
100	-	-	-	R480668824	R480668837	R480668850
125	-	-	-	R480668825	R480668838	R480668851
150	-	-	-	R480668826	R480668839	R480668852

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	R480668853	-	R480668878
10	R480668854	R480668866	R480668879
15	R480668855	R480668867	R480668880
20	R480668856	R480668868	R480668881
25	R480668857	R480668869	R480668882
30	R480668858	R480668870	R480668883
40	R480668859	R480668871	R480668884
50	R480668860	R480668872	R480668885
60	R480668861	R480668873	R480668886
80	R480668862	R480668874	R480668887
100	R480668863	R480668875	R480668888
125	R480668864	R480668876	R480668889
150	R480668865	R480668877	R480668890

## Technical data

Piston Ø	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm	63 mm
Retracting piston force	95 N	148 N	260 N	435 N	720 N	1110 N	1837 N
Extracting piston force	127 N	198 N	309 N	507 N	792 N	1237 N	1964 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	0,079 kg	0,119 kg	0,15 kg	0,286 kg	0,378 kg	0,551 kg	0,762 kg
Weight +10 mm stroke	0,016 kg	0,019 kg	0,021 kg	0,035 kg	0,04 kg	0,055 kg	0,062 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	2969 N	4639 N
Extracting piston force	3167 N	4948 N
Impact energy	1,8 J	2,5 J
Weight 0 mm stroke	1,34 kg	2,25 kg
Weight +10 mm stroke	0,087 kg	0,108 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.

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 material for heat-resistant scraper and seal variants (ambient temperature: - 10 °C - 120 °C ) is fluorocautchouc.

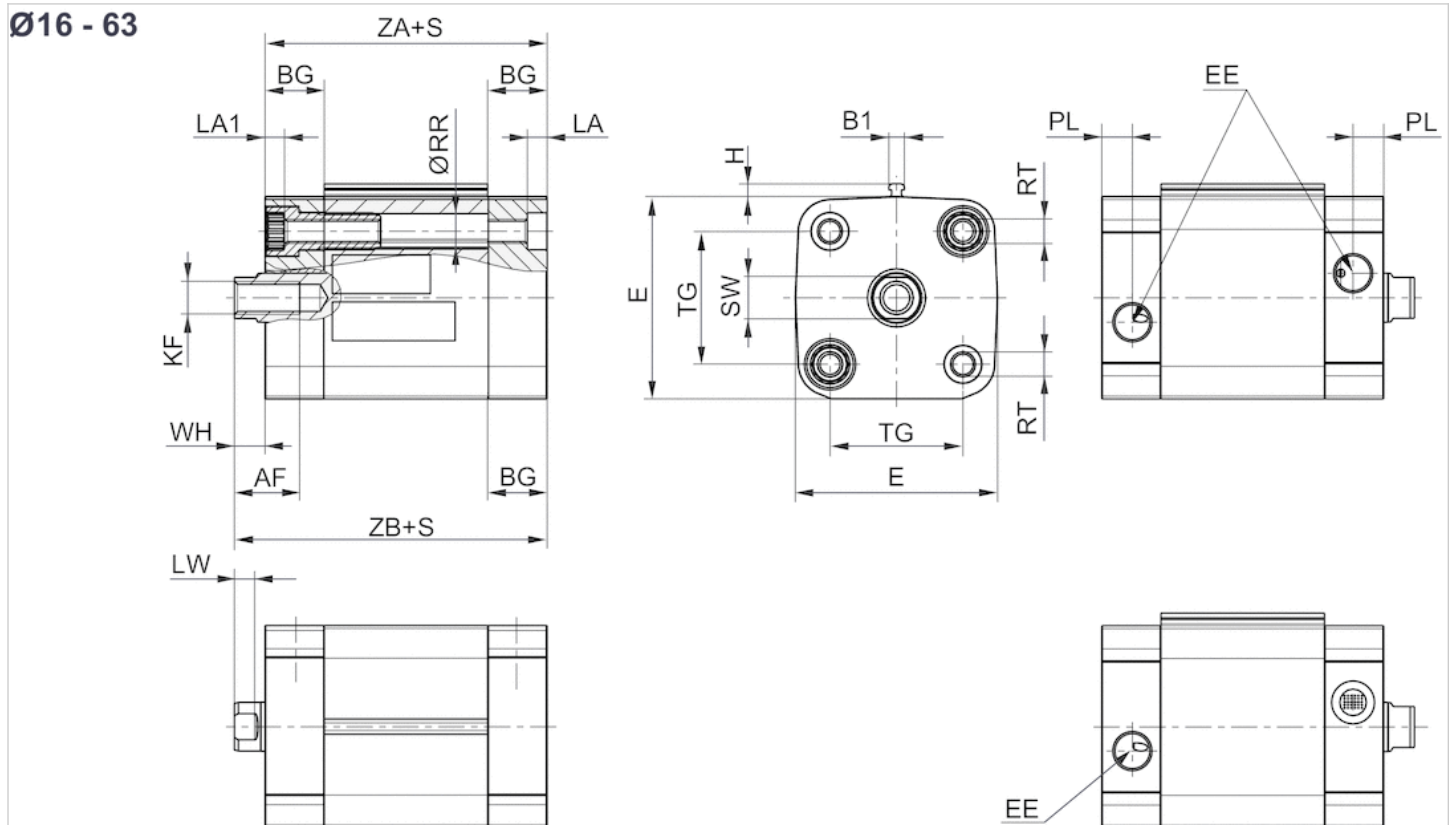
Further options can be generated in the Internet configurator.

## Technical information

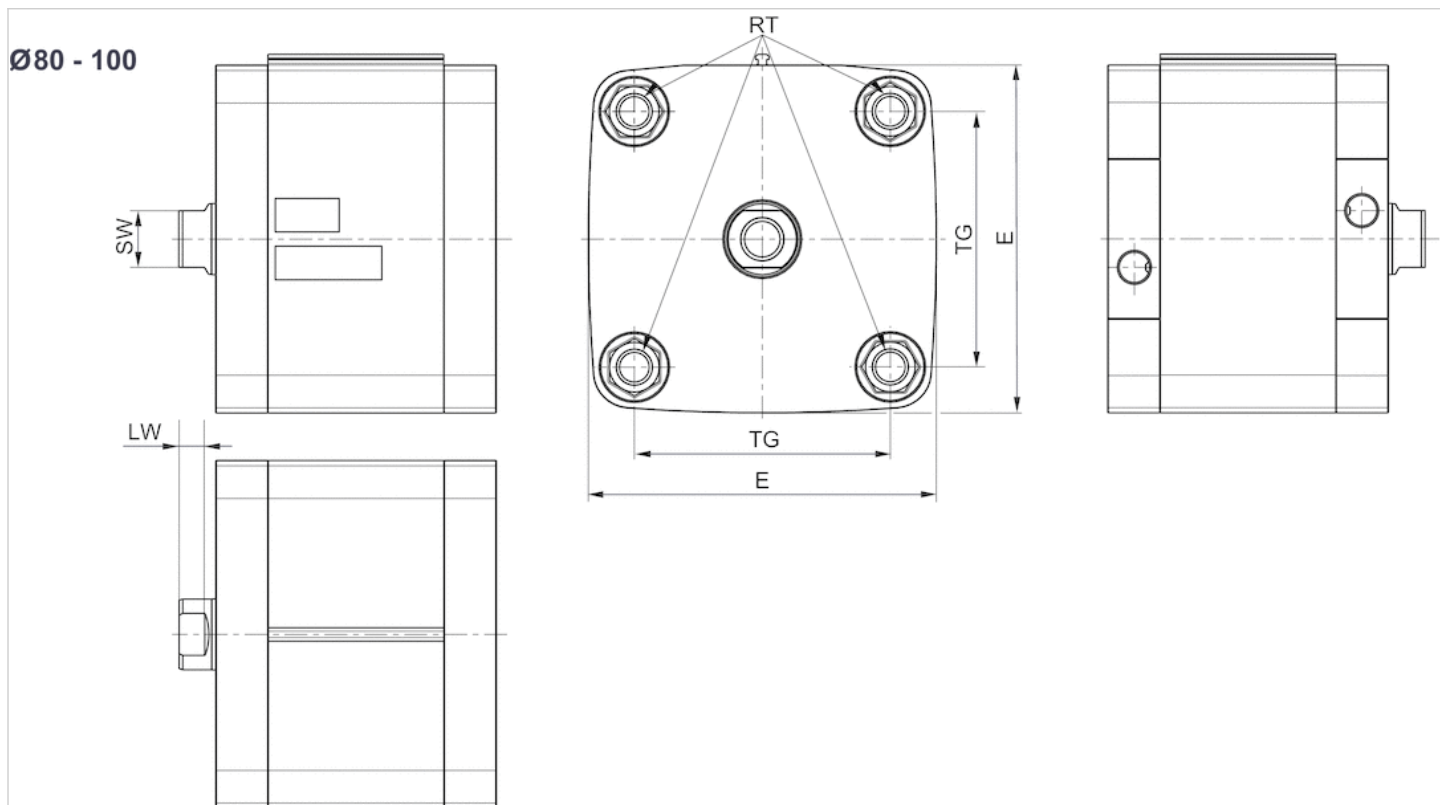
Material	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum, anodized
End cover	Aluminum, anodized
Scraper	Polyurethane

## Dimensions

### Dimensions



S = stroke



## Dimensions

Piston Ø	AF	B1	BG 1)	E	EE	H	KF	LA	LA1	LW	PL	RR 1)	RT	SW	TG	WH
16 mm	10	3.8	15	29	M5	3.1	M4	3.5	3.5	3.2	5	3.2	M4	7	18 ±0,4	4,8 ±1,4
20 mm	10	3.8	15	36.5	M5	3.1	M6	4.8	4.6	3.7	5	4.1	M5	8	22 ±0,4	6 ±1,4
25 mm	10	3.8	15	40.5	M5	3.1	M6	4.8	4.6	3.7	5	4.1	M5	8	26 ±0,4	6 ±1,4
32 mm	12	3.8	16	49.5	G1/8	3.1	M8	4.8	4.8	5	7.5	5.1	M6	10	32,5 ±0,5	7 ±1,6
40 mm	12	3.8	16	57.5	G1/8	3.1	M8	4.8	4.8	5	7.5	5.1	M6	10	38 ±0,5	7 ±1,6
50 mm	16	3.8	16	69.5	G1/8	3.1	M10	4.8	4.8	5.7	7.5	6.4	M8	13	46,5 ±0,6	8 ±1,6
63 mm	16	3.8	16	79.5	G1/8	3.1	M10	4.8	4.8	5.7	7.5	6.4	M8	13	56,5 ±0,7	8 ±1,6
80 mm	20	3.8	17	98**	G1/8	3.1	M12	0	0	7	7.5	8.4	M10	16	72 ±0,7	10 ±2
100 mm	20	3.8	17	115.5	G1/8	3.1	M12	0	0	7.5	7.5	8.4	M10	21	89 ±0,7	10 ±2

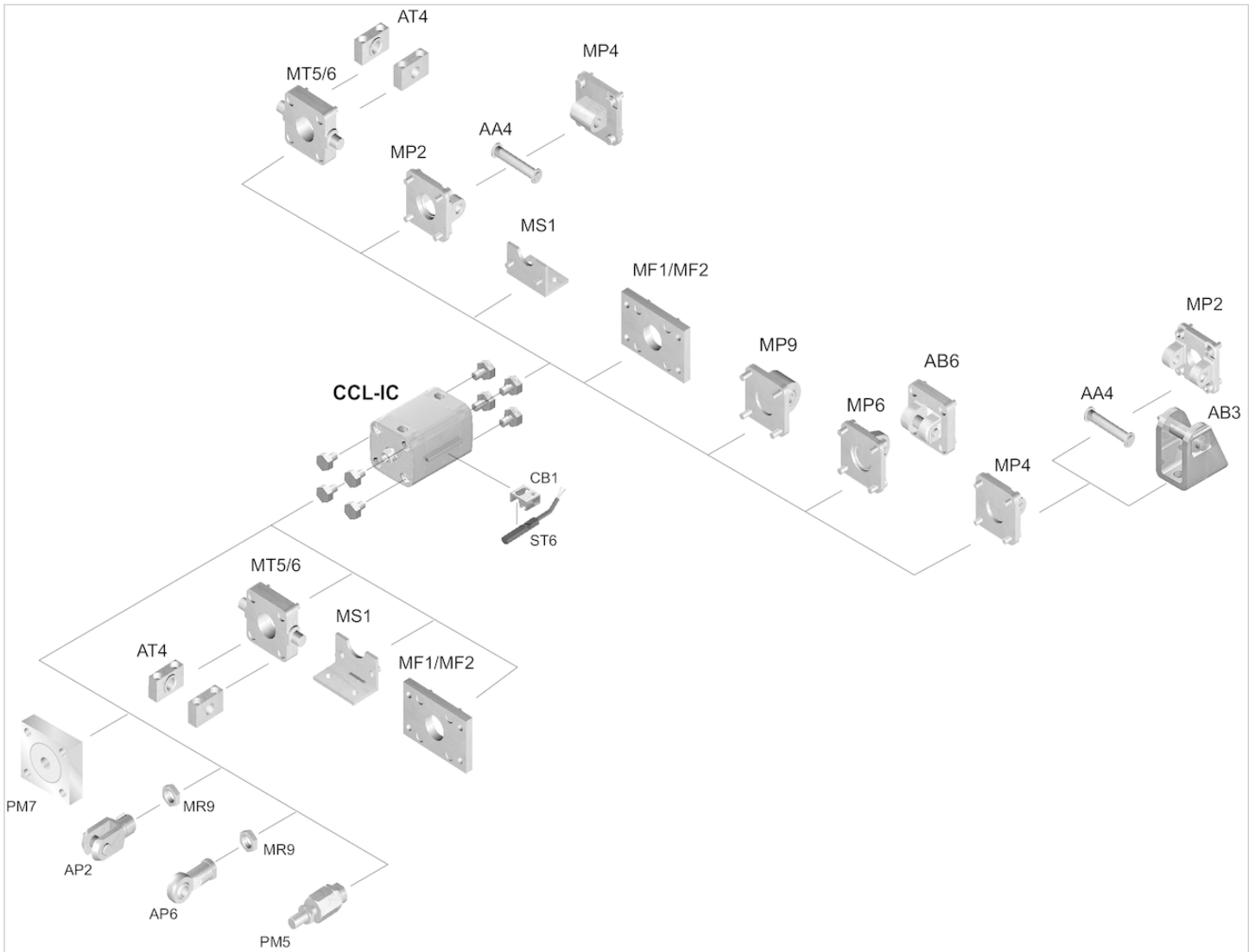
Piston Ø	ZA +S	ZB +S
16 mm	36	40.8
20 mm	37	43
25 mm	39	45
32 mm	44	51
40 mm	45	52
50 mm	45.5	53.5
63 mm	49	57
80 mm	54	64
100 mm	67	77

1) min.

\*\* ISO 21287: 96

# 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.