

ISO 21287, Series CCL-IC

- Ø 16-63 mm
- Ports M5, G 1/8
- Single-acting, retracted without pressure
- with magnetic piston
- Cushioning elastic
- Piston rod Internal thread



Standards

Compressed air connection	ISO 21287
Working pressure min./max.	Internal thread
Ambient temperature min./max.	1 ... 10 bar
Medium temperature min./max.	-20 ... 80 °C
Medium	-20 ... 80 °C
Max. particle size	Compressed air
Oil content of compressed air	50 µm
Pressure for determining piston forces	0 ... 5 mg/m³
	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	63 mm M10 G 1/8 16 mm
Stroke 5	R480668926	R480668931	R480668936	R480668941	R480668946	R480668951	R480668956
10	R480668927	R480668932	R480668937	R480668942	R480668947	R480668952	R480668957
15	R480668928	R480668933	R480668938	R480668943	R480668948	R480668953	R480668958
20	R480668929	R480668934	R480668939	R480668944	R480668949	R480668954	R480668959
25	R480668930	R480668935	R480668940	R480668945	R480668950	R480668955	R480668960

Technical data

Piston Ø	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm	63 mm
Retracting piston force	12 N	13 N	25 N	35 N	43 N	82 N	82 N
Extracting piston force	115 N	185 N	284 N	472 N	749 N	1155 N	1882 N
Spring force min. - max.	12 N	13 N	25 N	35 N	43 N	82 N	82 N
Impact energy	0,11 J	0,15 J	0,2 J	0,4 J	0,52 J	0,64 J	0,75 J
Weight 0 mm stroke	0,08 kg	0,12 kg	0,152 kg	0,29 kg	0,383 kg	0,563 kg	0,775 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.	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

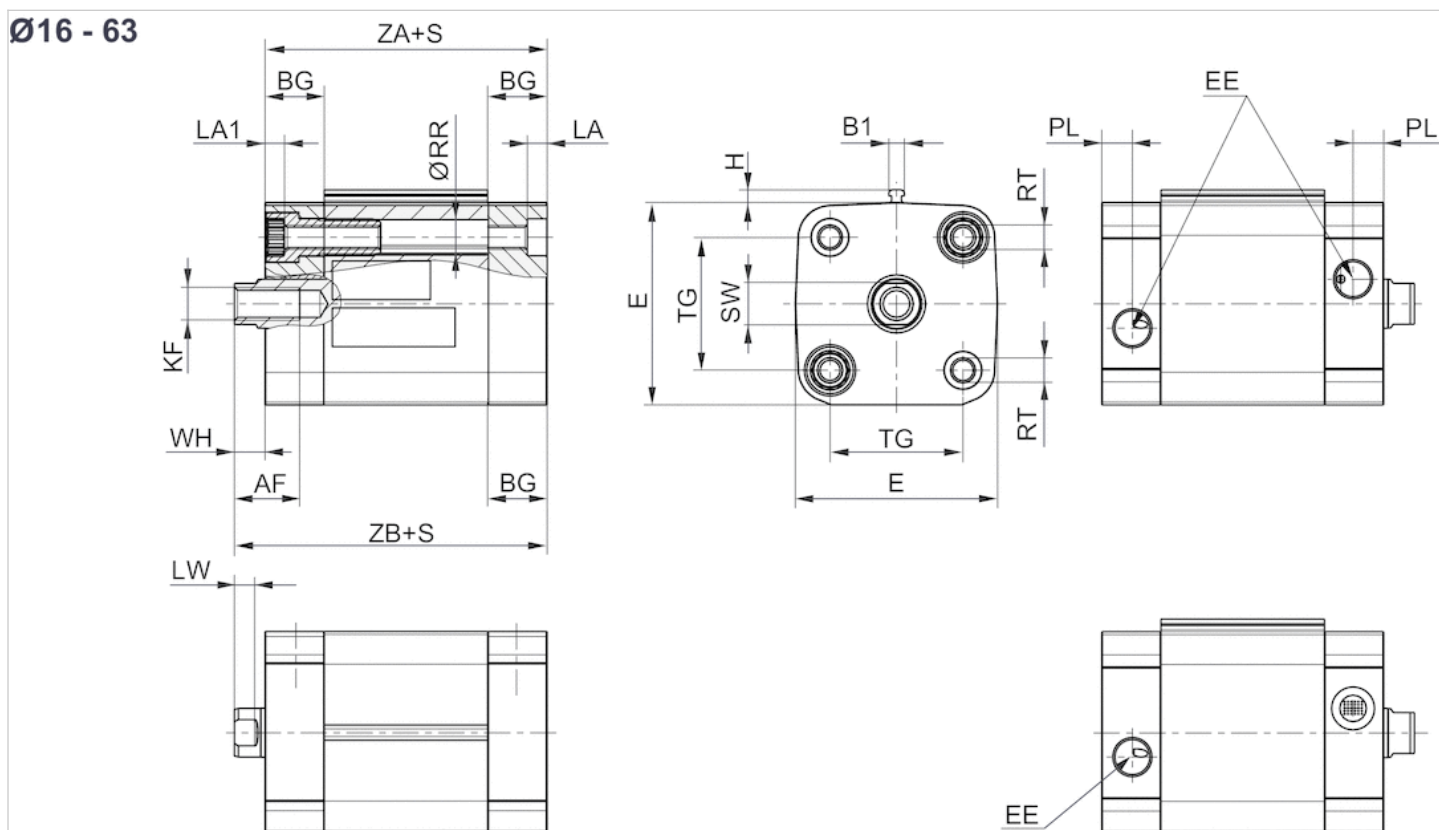
Further options can be generated in the Internet configurator.

Technical information

Material	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum, anodized
End cover	Aluminum, anodized
Scraper	Polyurethane
Lubricant	ISO 21469 (NSF-H1)

Dimensions

Dimensions



S = stroke

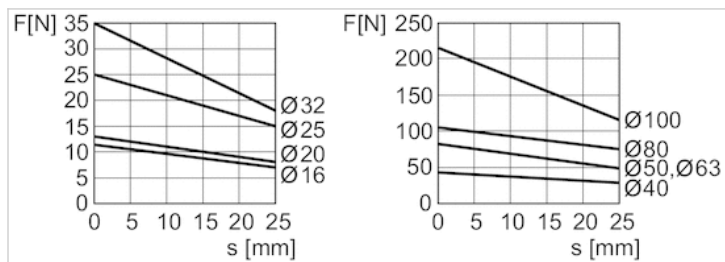
Dimensions

Piston Ø	AF	B1	BG 1)	E	EE	H	KF	LA	LA1	LW	PL	RR 1)	RT	SW	TG	WH	ZA+S	ZB+S
16 mm	10	3.8	15	29	M5	3.1	M4	3.5	3.5	3.2	5	3.2	M4	7	18 ±0,5	4.8 ±1,4	36	40.8
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	37	43
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 ±1,6	39	45
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	44	51
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	45	52
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 ±0,5	8 ±1,6	45.5	53.5
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 ±0,5	8 ±1,6	49	57

1) min.

Diagrams

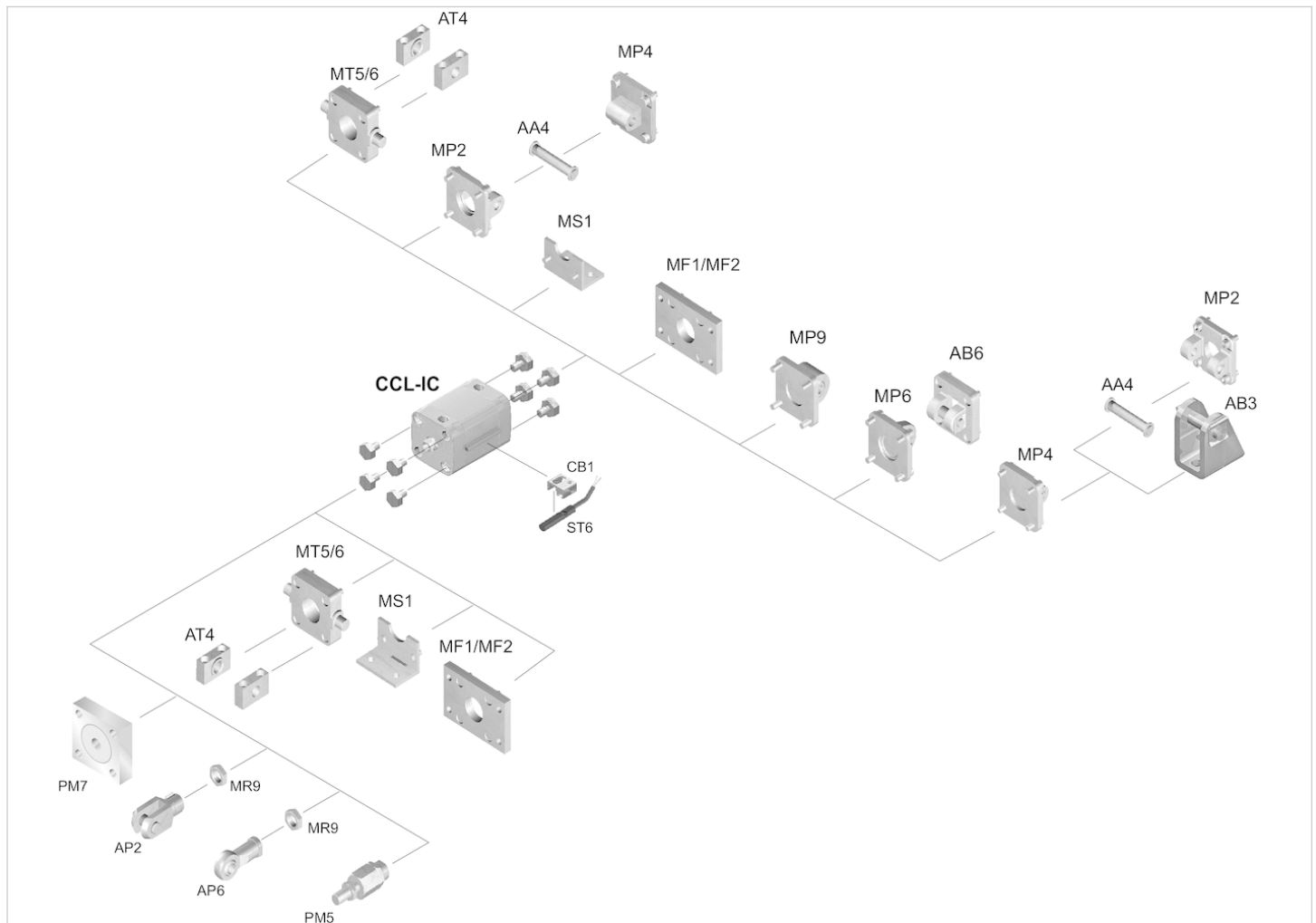
Extracting piston force



F = spring return force, s = return stroke

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.