

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 External thread



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	6.3 bar

Technical data

Piston Ø	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm	63 mm
Piston rod thread	M6x1	M8x1,25	M8x1,25	M10x1,25	M10x1,25	M12x1,25	M12x1,25
Ports	M5	M5	M5	G 1/8	G 1/8	G 1/8	G 1/8
Piston rod Ø	8 mm	10 mm	10 mm	12 mm	12 mm	16 mm	16 mm
Stroke 5	R480668891	R480668896	R480668901	R480668906	R480668911	R480668916	R480668921
10	R480668892	R480668897	R480668902	R480668907	R480668912	R480668917	R480668922
15	R480668893	R480668898	R480668903	R480668908	R480668913	R480668918	R480668923
20	R480668894	R480668899	R480668904	R480668909	R480668914	R480668919	R480668924
25	R480668895	R480668900	R480668905	R480668910	R480668915	R480668920	R480668925

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	0,085 kg	0,146 kg	0,178 kg	0,313 kg	0,406 kg	0,602 kg	0,814 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.

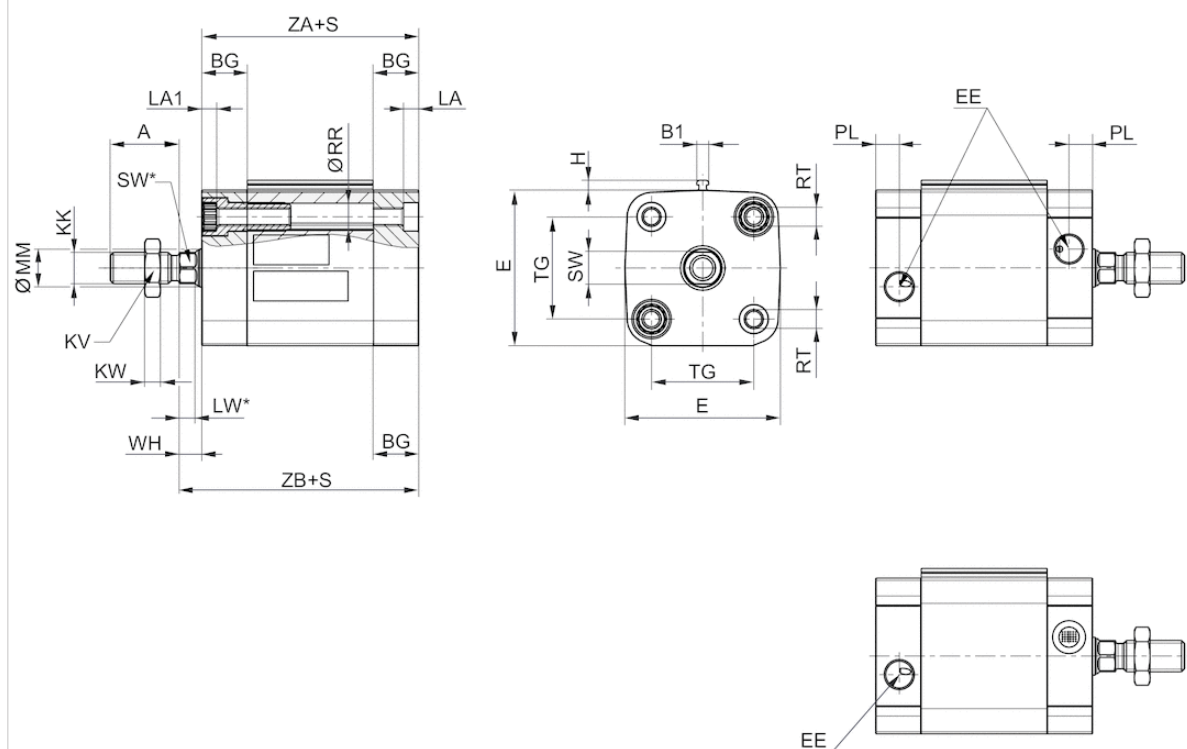
Technical information

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

Ø16 - 63



S = stroke

Dimensions

Piston Ø	A	B1	BG 1)	E	EE	H	KK	KV	KW	LA	LA1	LW	LW*	MM f8	PL	RR 1)	RT	SW	SW*	TG	WH
16 mm	12	3.8	15	29	M5	3.1	M6	10	3.2	3.5	3.5	3.2	3.2	8	5	3.2	M4	7	7	18 ±0,4	4,8 ±1,4
20 mm	16	3.8	15	36.5	M5	3.1	M8	13	4	4.8	4.6	3.7	3.7	10	5	4.1	M5	8	8	22 ±0,4	6 ±1,4
25 mm	16	3.8	15	40.5	M5	3.1	M8	13	4	4.8	4.6	3.7	3.7	10	5	4.1	M5	8	8	26 ±0,4	6 ±1,6
32 mm	19	3.8	16	49.5	G1/8	3.1	M10x1,25	17	5	4.8	4.8	5	5*	12	7.5	5.1	M6	10	10*	32,5 ±0,5	7 ±1,6
40 mm	19	3.8	16	57.5	G1/8	3.1	M10x1,25	17	5	4.8	4.8	5	5*	12	7.5	5.1	M6	10	10*	38 ±0,5	7 ±1,6
50 mm	22	3.8	16	69.5	G1/8	3.1	M12x1,5	18	6	4.8	4.8	5.7	4,8*	16	7.5	6.4	M8	13	13*	46,5 ±0,6	8 ±1,6
63 mm	22	3.8	16	79.5	G1/8	3.1	M12x1,5	18	6	4.8	4.8	5.7	4,8*	16	7.5	6.4	M8	13	13*	56,5 ±0,7	8 ±1,6

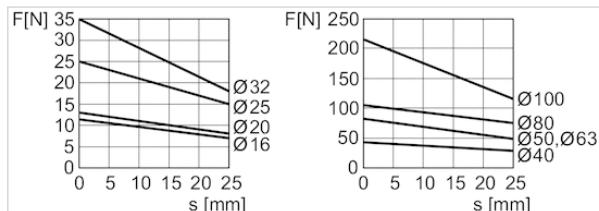
Piston Ø	ZA +S	ZB+S
16 mm	36	40.8
20 mm	37	43
25 mm	39	45
32 mm	44	51
40 mm	45	52
50 mm	45.5	53.5
63 mm	49	57

1) min.

* Hexagonal key required

Diagrams

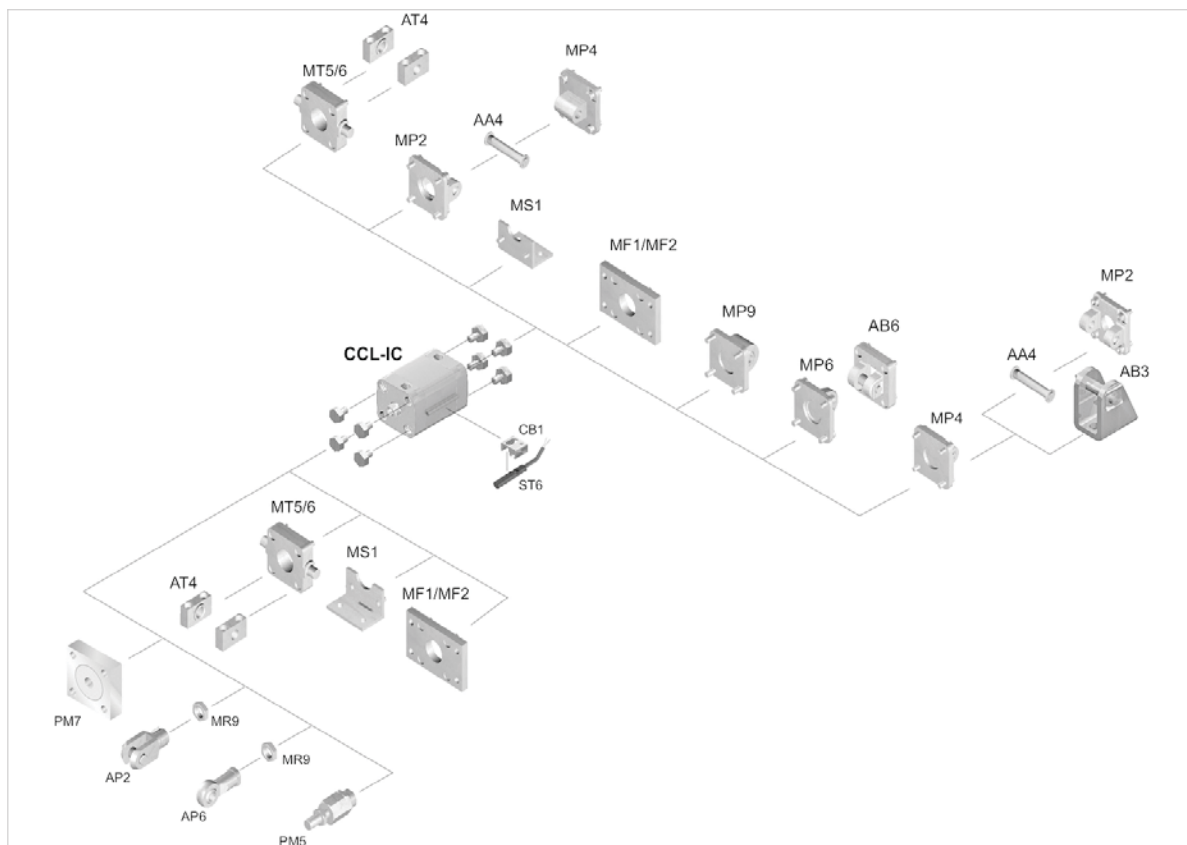
Extracting piston force



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.