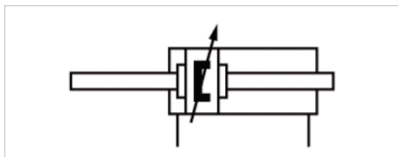


ISO 15552, series CCL-IS

- Ø 32-125 mm
- Ports G 1/8, G 1/4, G 3/8, G 1/2
- double-acting
- with magnetic piston
- Cushioning pneumatically, adjustable
- Piston rod External thread
- Piston rod through
- ATEX optional
- suitable for use in food processing
- Optionally heat-resistant



Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	1,5 ... 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	32 mm M10x1,25 G 1/8 12 mm	40 mm M12x1,25 G 1/4 16 mm	50 mm M16x1,5 G 1/4 20 mm	63 mm M16x1,5 G 3/8 20 mm	80 mm M20x1,5 G 3/8 25 mm	100 mm M20x1,5 G 1/2 25 mm	125 mm M27x2 G 1/2 32 mm
Stroke 25	R480193041	R480193160	R480140572	R480161345	R480193182	R480193187	R480193196
50	R480164229	R480191357	R480178656	R480192685	R480190899	R480193188	R480193200
80	R480189168	R480193161	R480193169	R480140270	R480193183	R480193189	R480193201
100	R480181243	R480193162	R480178406	R480193176	R480140266	R480173536	R480193202
125	R480193155	R480193163	R480140573	R480068035	R480178891	R480193190	R480178609
160	R480156543	R480193164	R480193170	R480193177	R480183597	R480193191	R480193203
200	R480193156	R480193165	R480193171	R480153420	R480193184	R480193192	R480193204
250	R480185615	R480190116	R480193172	R480193178	R480174928	R480179848	R480193205
320	R480193157	R480193166	R480193173	R480193179	R480193185	R480193193	R480193206
400	R480193158	R480193167	R480193174	R480193180	R480189967	R480193194	R480193207
500	R480193159	R480193168	R480193175	R480193181	R480193186	R480193195	R480193208

Technical data

Piston Ø	32 mm	40 mm	50 mm	63 mm	80 mm
Retracting piston force	435 N	665 N	1039 N	1766 N	2857 N
Cushioning length	11,5 mm	15 mm	17 mm	16,5 mm	19,5 mm
Cushioning energy	4,8 J	9 J	15 J	27 J	54 J
Weight 0 mm stroke	0,71 kg	1,11 kg	1,72 kg	2,15 kg	3,95 kg
Weight +10 mm stroke	0,046 kg	0,067 kg	0,09 kg	0,105 kg	0,14 kg
Stroke max.	1500 mm	1500 mm	1500 mm	1500 mm	1500 mm
Material, front cover	Aluminum, anodized	Aluminum, anodized	Aluminum, anodized	Aluminum, anodized	Aluminum, anodized

Piston Ø	100 mm	125 mm
Retracting piston force	4639 N	7224 N
Cushioning length	19,5 mm	22 mm
Cushioning energy	88 J	140 J
Weight 0 mm stroke	5,25 kg	8,92 kg
Weight +10 mm stroke	0,193 kg	0,22 kg
Stroke max.	1500 mm	1500 mm
Material, front cover	Aluminum, anodized	Aluminum, anodized

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
ATEX-certified cylinders with identification II 2G c IIB T4 / II 2D c IP65 T125°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 PTFE.

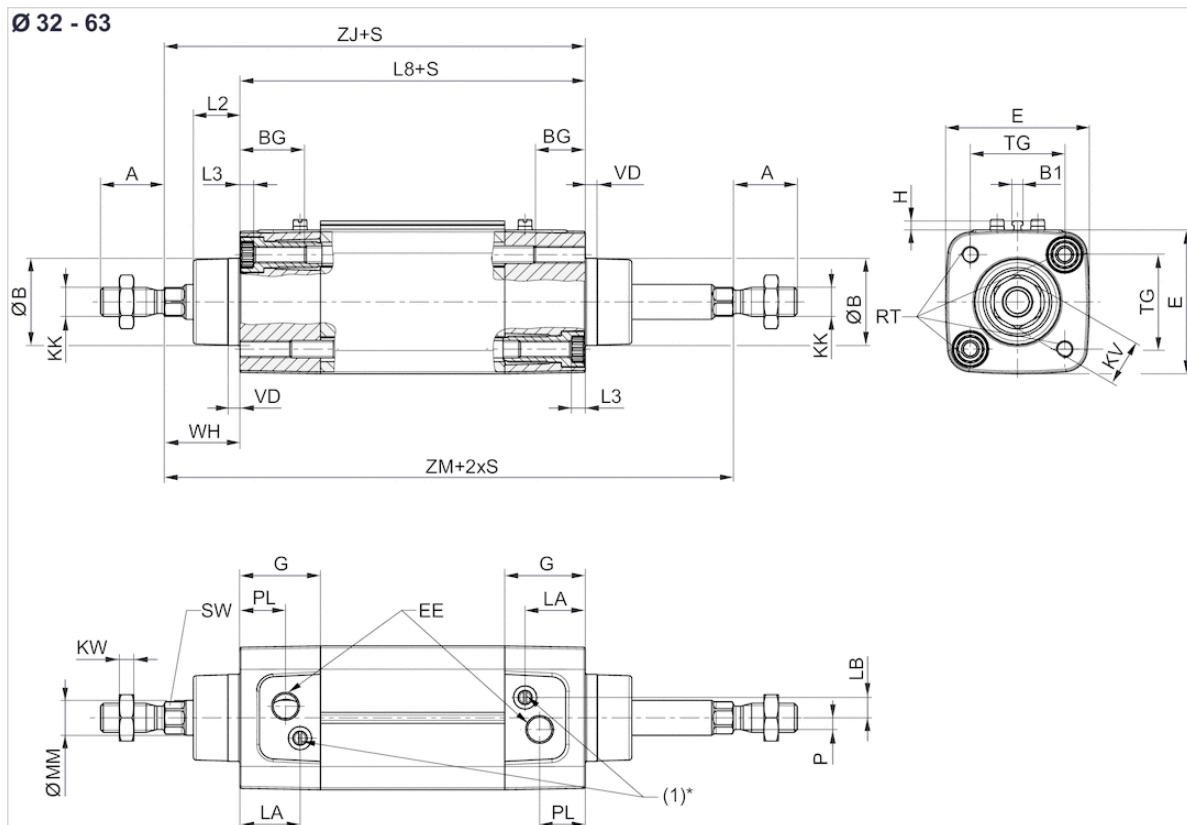
Further options can be generated in the Internet configurator.

Technical information

Material	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum, anodized, Die-cast aluminum, anodized
End cover	Aluminum, anodized, Die-cast aluminum, anodized
Scraper	Polyester
Tie-rods	Stainless steel
Lubricant	ISO 21469 (NSF-H1)

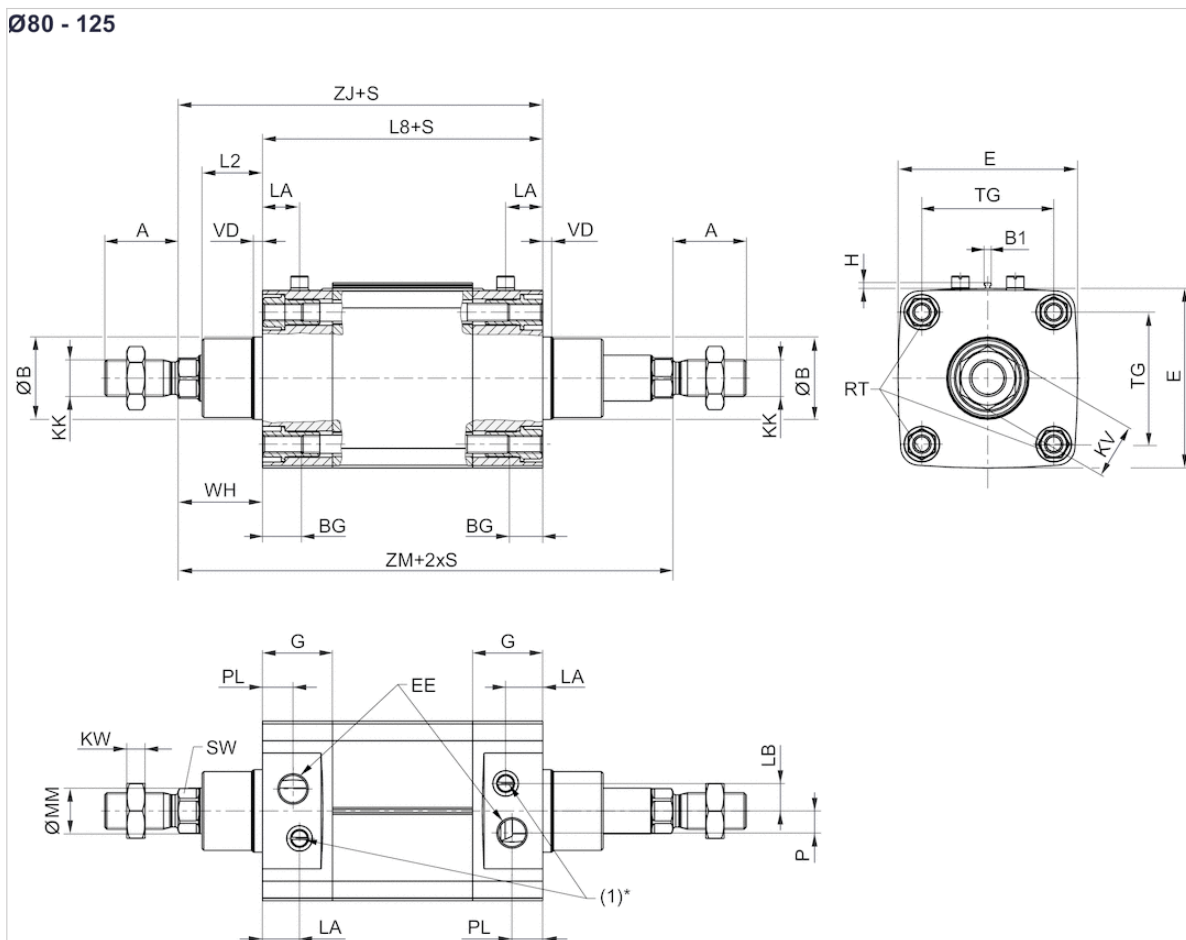
Dimensions

Dimensions



S = stroke

* The flow control screw (1) only has a function in cylinders with adjustable cushioning.



S = stroke

* The flow control screw (1) only has a function in cylinders with adjustable cushioning.

Dimensions

Piston Ø	A	ØB / ØBA d11	B1	BG 1)	E	EE	G	H	KK	KV	KW	L2	L3 2)	L8	LA	LB	MM f8	P
32 mm	22	30	3.8	16	49.5	G1/8	27.75	3.1	M10x1,25	16	5	16	5	94 ±0,4	20.75	7	12	4
40 mm	24	35	3.8	16	57.5	G1/4	33.25	3.1	M12x1,25	18	6	18.25	5	105 ±0,7	22.75	8	16	5
50 mm	32	40	3.8	16	69.5	G1/4	31	3.1	M16x1,5	24	8	25	5	106 ±0,7	20	12	20	7.7
63 mm	32	45	3.8	16	79.5	G3/8	38.25	3.1	M16x1,5	24	8	25	5	121 ±0,8	27.25	11	20	11
80 mm	40	45	3.8	17	98	G3/8	38.25	3.1	M20x1,5	30	10	33	-	128 ±0,8	20.25	15	25	12
100 mm	40	55	3.8	17	115.5	G1/2	42.25	3.1	M20x1,5	30	10	36	-	138 ±1	24.25	14	25	17
125 mm	54	60	3.8	20	145	G1/2	54	3.1	M27x2	41	13.5	45	-	160 ±1	25.5	4	32	27.5

Piston Ø	PL	RT	SW	TG	VA	VD	WH	ZJ	ZM
32 mm	15.75	M6	10	32,5 ±0,5	4	4	26 ±1,4	120	146
40 mm	16.75	M6	13	38 ±0,5	4	5	30 ±1,4	135	165
50 mm	16	M8	17	46,5 ±0,6	4	5	37 ±1,4	143	180
63 mm	19.25	M8	17	56,5 ±0,7	4	5	37 ±1,8	158	195
80 mm	16.75	M10	22	72 ±0,7	4	5	46 ±1,8	174	220

PDF creation date: 23.07.2018

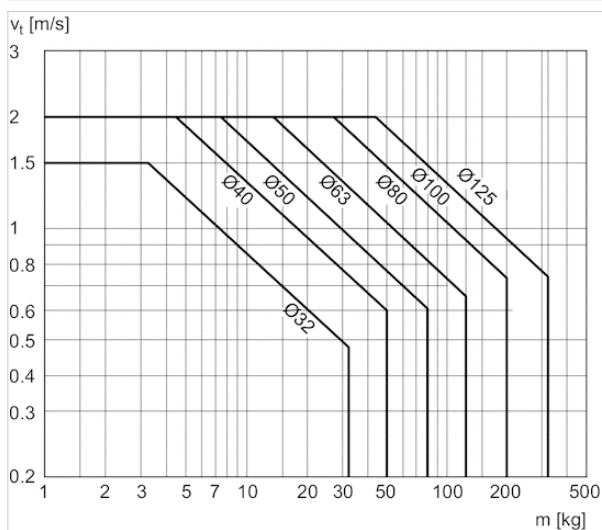
Piston Ø	PL	RT	SW	TG	VA	VD	WH	ZJ	ZM
100 mm	19.25	M10	22	89 ±0,7	4	5	51 ±1,8	189	240
125 mm	20	M12	27	110 ±1,1	6	6	65 ±2,2	225	290

1) min.

2) max.

Diagrams

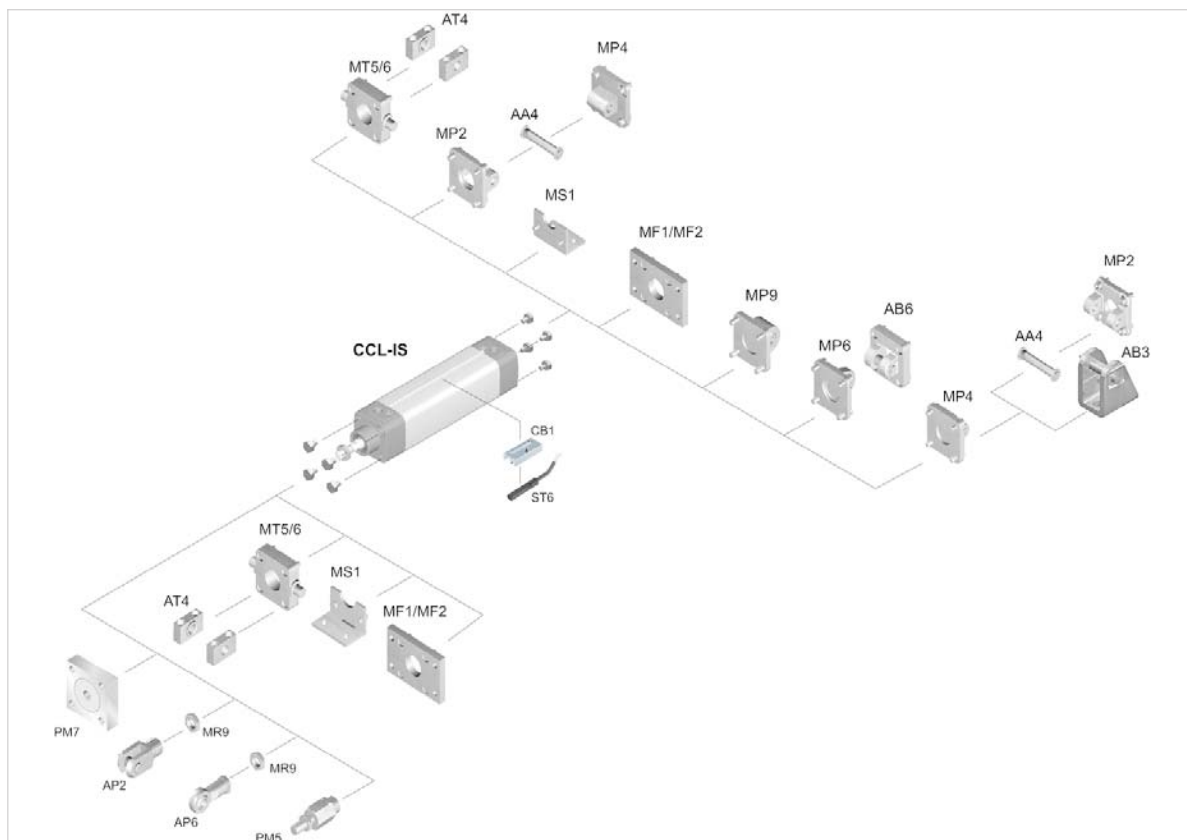
Cushioning diagram



V = velocity [m/s]
 m = mass

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.