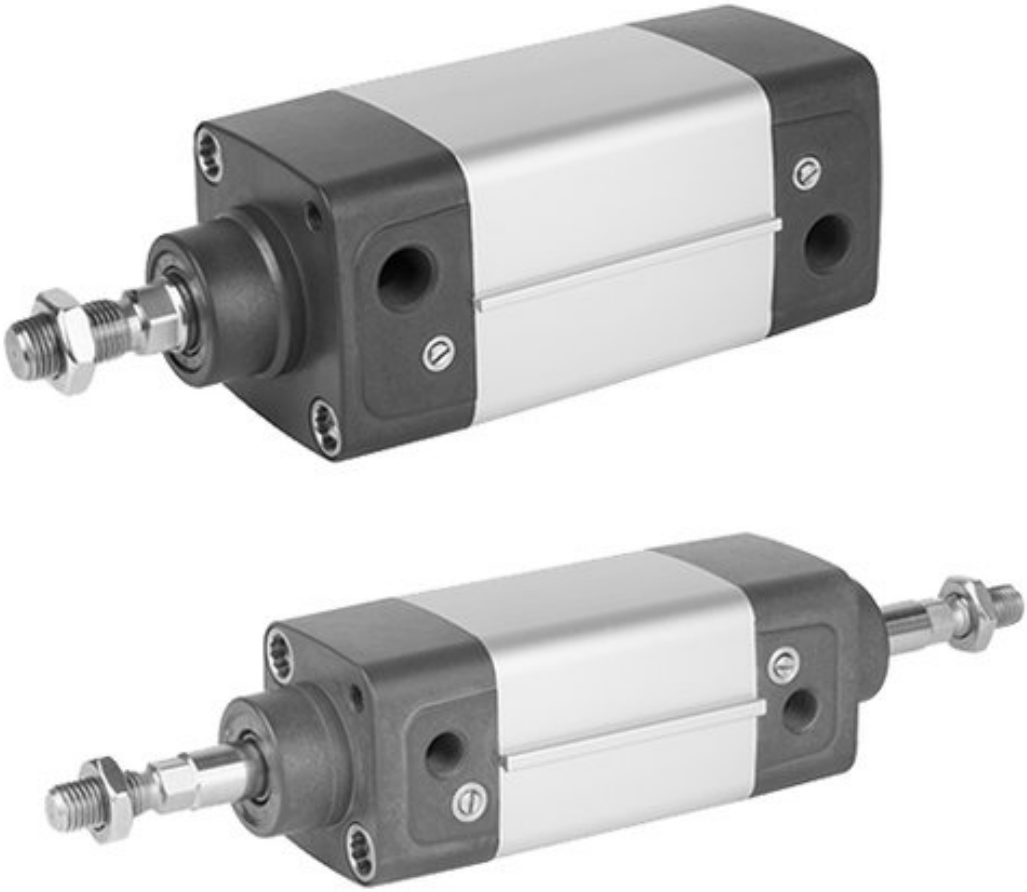
ISO 15552, series CCL-IS



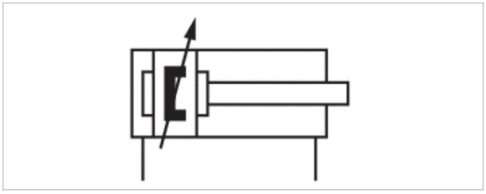
AVENTICS™ ISO 15552, series CCL-IS

EMERSON.

ISO 15552, series CCL-IS

- Ø 25-125 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
- ATEX optional
- suitable for use in food processing
- Optionally heat-resistant

Standards	ISO 15552
Certificates	ATEX optional
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	25 mm M10x1,25 G 1/8 12 mm	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
Stroke 25	R480671114	R480060005	R480060018	R480060026	R480060036	R480060060
50	R480671115	R480058830	R480059528	R480060027	R480058890	R480060061
80	R480671116	R480060006	R480060019	R480060028	R480060037	R480060063
100	R480671117	R480059075	R480060020	R480060029	R480060038	R480060064
125	R480671118	R480060007	R480060021	R480060030	R480060039	R480059699
160	R480671119	R480060008	R480059526	R480060031	R480060040	R480060065
200	R480671120	R480060009	R480060022	R480060032	R480060041	R480059532
250	R480671121	R480060010	R480060023	R480060033	R480060043	R480060066
320	R480671122	R480060011	R480060024	R480060034	R480060042	R480060067
400	R480671123	R480060012	R480059529	R480058941	R480060044	R480060068
500	R480671124	R480060013	R480060025	R480060035	R480060045	R480060069

Piston Ø Piston rod thread Ports Piston rod Ø	100 mm M20x1,5 G 1/2 25 mm	125 mm M27x2 G 1/2 32 mm
Stroke 25	R480060070	R480060080
50	R480060071	R480060081
80	R480060072	R480060082
100	R480060073	R480060083
125	R480060074	R480060084
160	R480060075	R480060085
200	R480060076	R480060086
250	R480058909	R480060087
320	R480060077	R480140649
400	R480060078	R480060089
500	R480060079	R480060091

Technical data

Piston Ø	25 mm	32 mm	40 mm	50 mm	63 mm	80 mm	100 mm
Retracting piston force	260 N	435 N	665 N	1039 N	1766 N	2857 N	4639 N
Extracting piston force	309 N	507 N	792 N	1237 N	1964 N	3167 N	4948 N
Cushioning length	11 mm	16.5 mm	19 mm	17 mm	16.5 mm	19.5 mm	19.5 mm
Cushioning energy	2.3 J	4.8 J	9 J	15 J	27 J	54 J	88 J
Weight 0 mm stroke	0.33 kg	0.61 kg	0.92 kg	1.37 kg	1.77 kg	3.23 kg	4.42 kg
Weight +10 mm stroke	0.025 kg	0.036 kg	0.049 kg	0.065 kg	0.076 kg	0.081 kg	0.133 kg
Stroke max.	1500 mm	1600 mm	1900 mm	2100 mm	2500 mm	2800 mm	2800 mm

Piston Ø	125 mm
Retracting piston force	7224 N
Extracting piston force	7731 N
Cushioning length	22 mm
Cushioning energy	140 J
Weight 0 mm stroke	6.69 kg
Weight +10 mm stroke	0.127 kg
Stroke max.	2750 mm

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Ø25 not according to ISO 15552
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.
ATEX-certified cylinders with identification II 2G Ex h IIB T4 Gb / II 2D Ex h IIIB T135°C Db_X can be generated in the Internet configurator.
Ø25 not according to ISO 15552

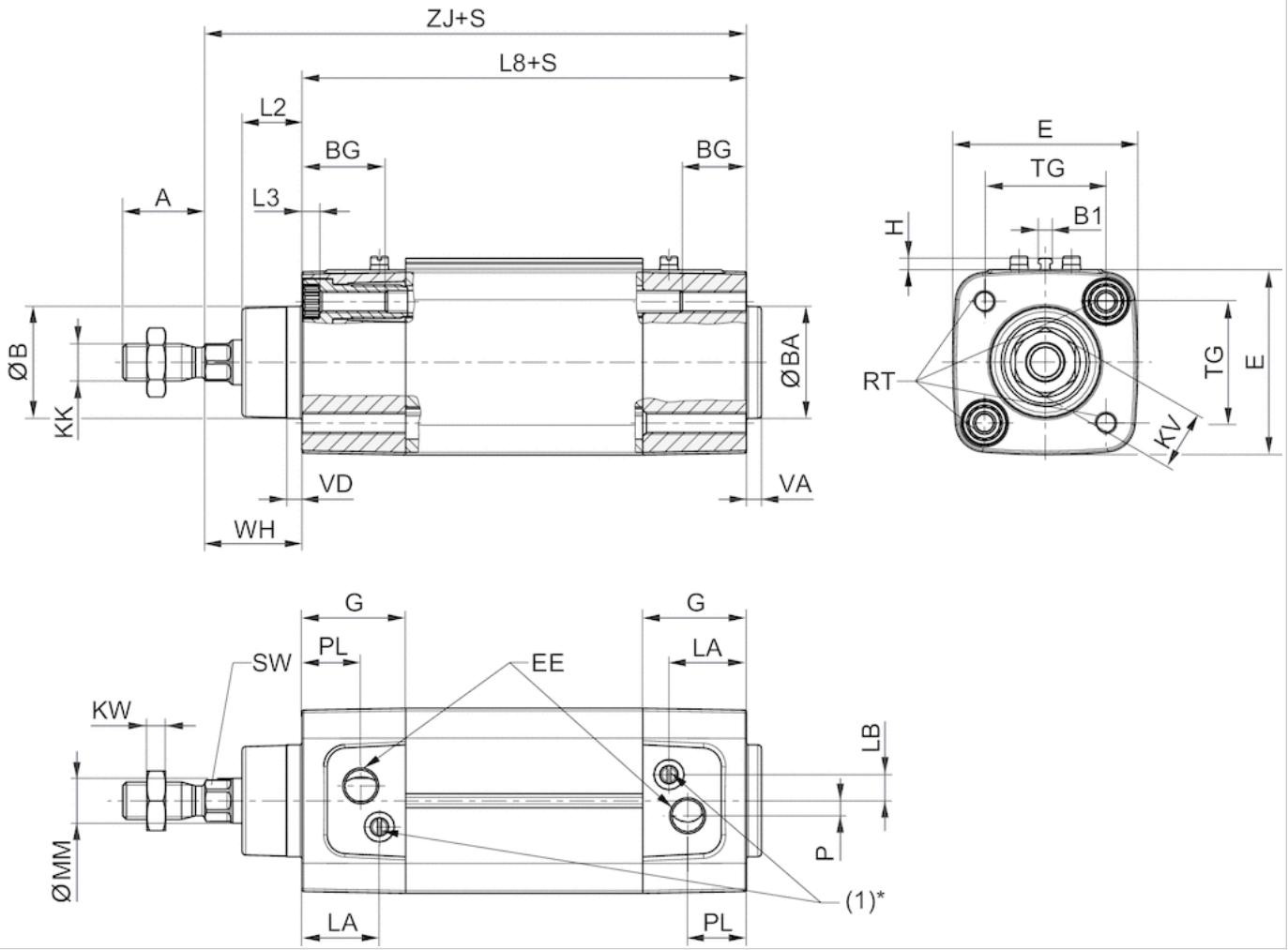
Technical information

Material	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum, anodized
End cover	Aluminum, anodized
Scraper	Polyester
Tie-rods	Stainless steel

Dimensions

Dimensions

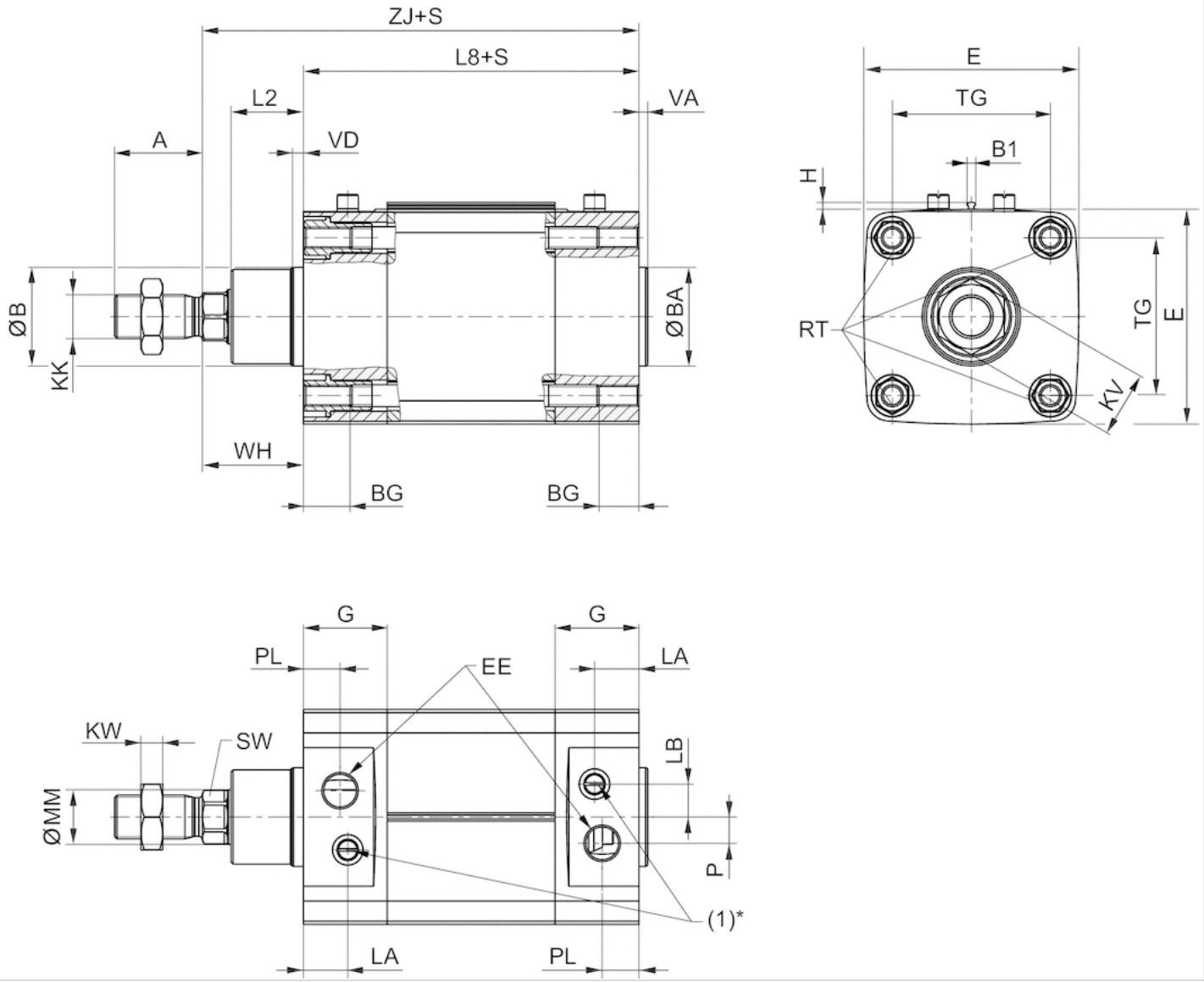
Ø 25 - 63



S = stroke

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

Ø80 - 125



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

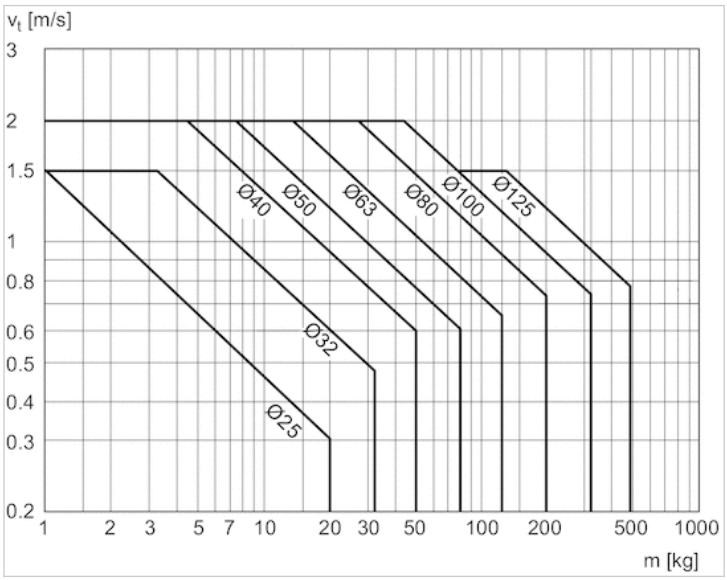
Dimensions

Piston Ø	A	ØB / ØBA d11	B1	BG mm	E	EE	G	H	KK	KV	KW	L2	L3 max.
25 mm	22	24	3.8	12.5	40.5	G1/8	20	3.1	M10x1,25	16	5	16	5
32 mm	22	30	3.8	16	49.5	G1/8	27.75	3.1	M10x1,25	16	5	16	5
40 mm	24	35	3.8	16	57.5	G1/4	33.25	3.1	M12x1,25	18	6	18.25	5
50 mm	32	40	3.8	16	69.5	G1/4	31	3.1	M16x1,5	24	8	25	5
63 mm	32	45	3.8	16	79.5	G3/8	38,25	3.1	M16x1,5	24	8	25	5
80 mm	40	45	3.8	17	98	G3/8	38,25	3.1	M20x1,5	30	10	33	-
100 mm	40	55	3.8	17	115,5	G1/2	42,25	3.1	M20x1,5	30	10	36	-
125 mm	54	60	3.8	20	145	G1/2	54	3.1	M27x2	41	13,5	45	-

Piston Ø	L8	LA	LB	MM f8	P	PL	RT	SW	TG	VA	VD	WH	ZJ
25 mm	74 ±0,4	13.5	6	12	4.5	10.3	M5	10	26 ±0,4	-	-	24 ±1,4	98
32 mm	94 ±0,4	20.75	7	12	4	15.75	M6	10	32,5 ±0,5	4	4	26 ±1,4	120
40 mm	105 ±0,7	22.75	8	16	5	16.75	M6	13	38 ±0,5	4	5	30 ±1,4	135
50 mm	106 ±0,7	20	12	20	7,7	16	M8	17	46,5 ±0,6	4	5	37 ±1,4	143
63 mm	121 ±0,8	27,25	11	20	11	19,25	M8	17	56,5 ±0,7	4	5	37 ±1,8	158
80 mm	128 ±0,8	20,25	15	25	12	16,75	M10	22	72 ±0,7	4	5	46 ±1,8	174
100 mm	138 ±1	24,25	14	25	17	19,25	M10	22	89 ±0,7	4	5	51 ±1,8	189
125 mm	160 ±1	25,5	4	32	27,5	20	M12	27	110 ±1,1	6	6	65 ±2,2	225

Diagrams

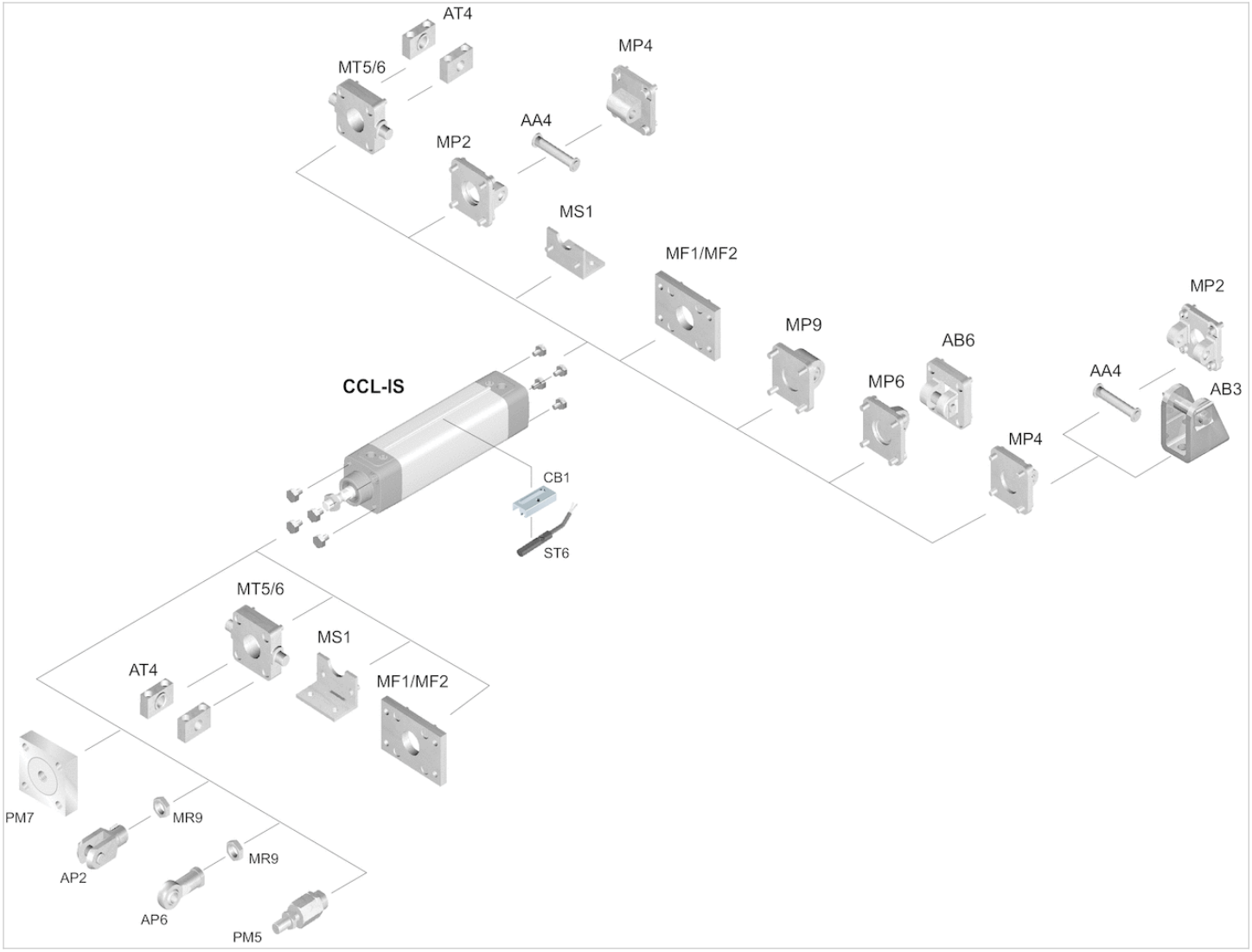
Cushioning diagram



V = velocity [m/s]
m = mass

Accessories overview

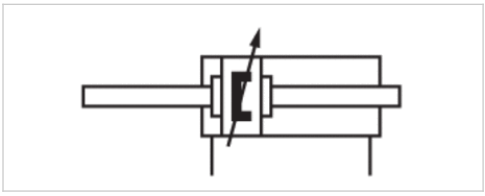
Overview drawing



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.

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
Certificates	ATEX optional
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
Stroke 25	R480193041	R480193160	R480140572	R480161345	R480193182	R480193187
50	R480164229	R480191357	R480178656	R480192685	R480190899	R480193188
80	R480189168	R480193161	R480193169	R480140270	R480193183	R480193189
100	R480181243	R480193162	R480178406	R480193176	R480140266	R480173536
125	R480193155	R480193163	R480140573	R480068035	R480178891	R480193190
160	R480156543	R480193164	R480193170	R480193177	R480183597	R480193191
200	R480193156	R480193165	R480193171	R480153420	R480193184	R480193192
250	R480185615	R480190116	R480193172	R480193178	R480174928	R480179848
320	R480193157	R480193166	R480193173	R480193179	R480193185	R480193193
400	R480193158	R480193167	R480193174	R480193180	R480189967	R480193194
500	R480193159	R480193168	R480193175	R480193181	R480193186	R480193195

Piston Ø Piston rod thread Ports Piston rod Ø	125 mm M27x2 G 1/2 32 mm
Stroke 25	R480193196
50	R480193200
80	R480193201
100	R480193202
125	R480178609
160	R480193203
200	R480193204
250	R480193205
320	R480193206
400	R480193207
500	R480193208

Technical data

Piston Ø	32 mm	40 mm	50 mm
Retracting piston force	435 N	665 N	1039 N
Cushioning length	11.5 mm	15 mm	17 mm
Cushioning energy	4.8 J	9 J	15 J
Weight 0 mm stroke	0.71 kg	1.11 kg	1.72 kg
Weight +10 mm stroke	0.046 kg	0.067 kg	0.09 kg
Material, front cover	Aluminum anodized	Aluminum anodized	Aluminum anodized
Stroke max.	1500 mm	1500 mm	1500 mm

Piston Ø	63 mm	80 mm	100 mm
Retracting piston force	1766 N	2857 N	4639 N
Cushioning length	16.5 mm	19.5 mm	19.5 mm
Cushioning energy	27 J	54 J	88 J
Weight 0 mm stroke	2.15 kg	3.95 kg	5.25 kg
Weight +10 mm stroke	0.105 kg	0.14 kg	0.193 kg
Material, front cover	Aluminum anodized	Aluminum anodized	Aluminum anodized
Stroke max.	1500 mm	1500 mm	1500 mm

Piston Ø	125 mm
Retracting piston force	7224 N
Cushioning length	22 mm
Cushioning energy	140 J
Weight 0 mm stroke	8.92 kg
Weight +10 mm stroke	0.22 kg
Material, front cover	Aluminum anodized
Stroke max.	1500 mm

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 Ex h IIB T4 Gb / II 2D Ex h IIIB T135°C Db_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.

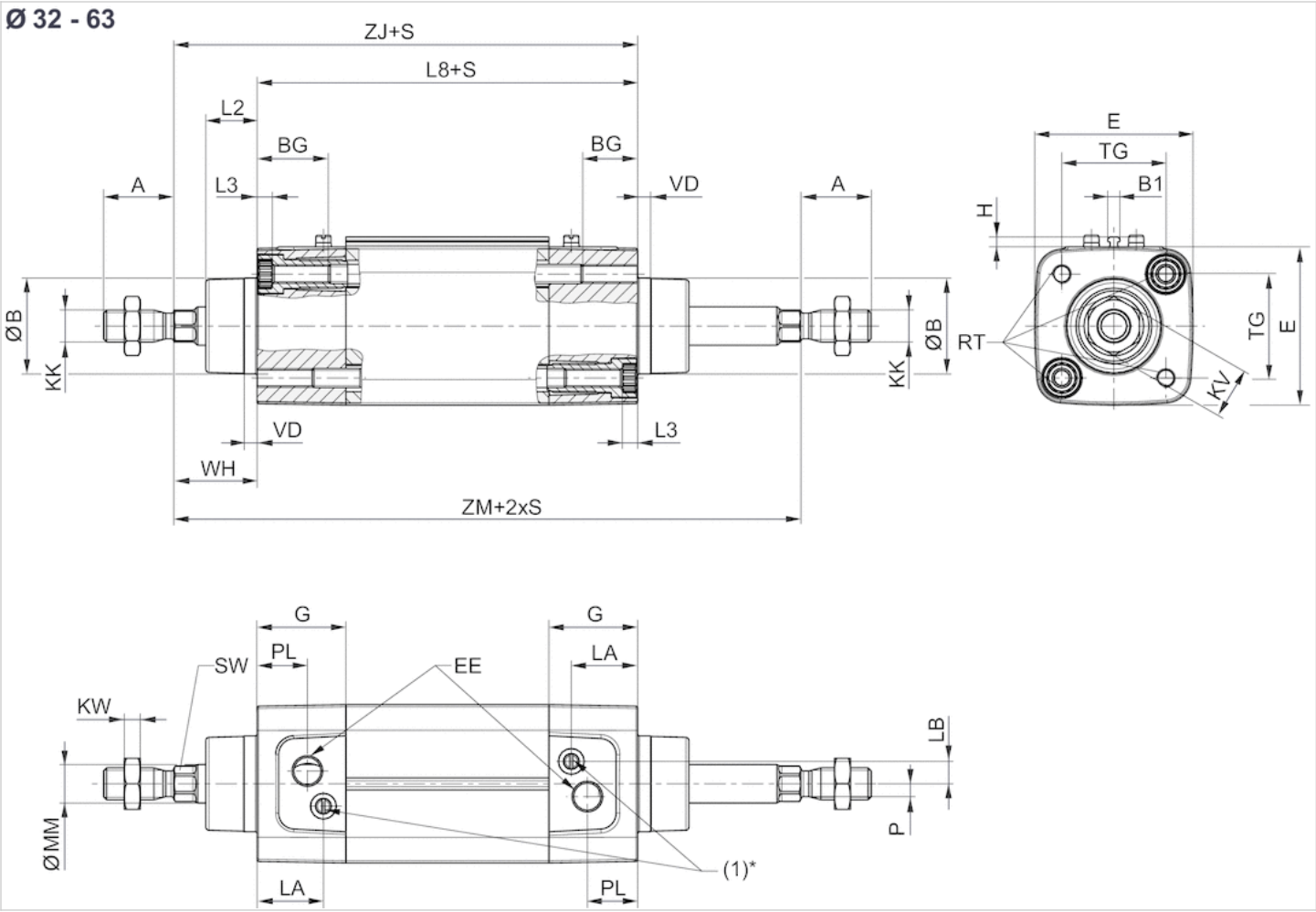
Further options can be generated in the Internet configurator.

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

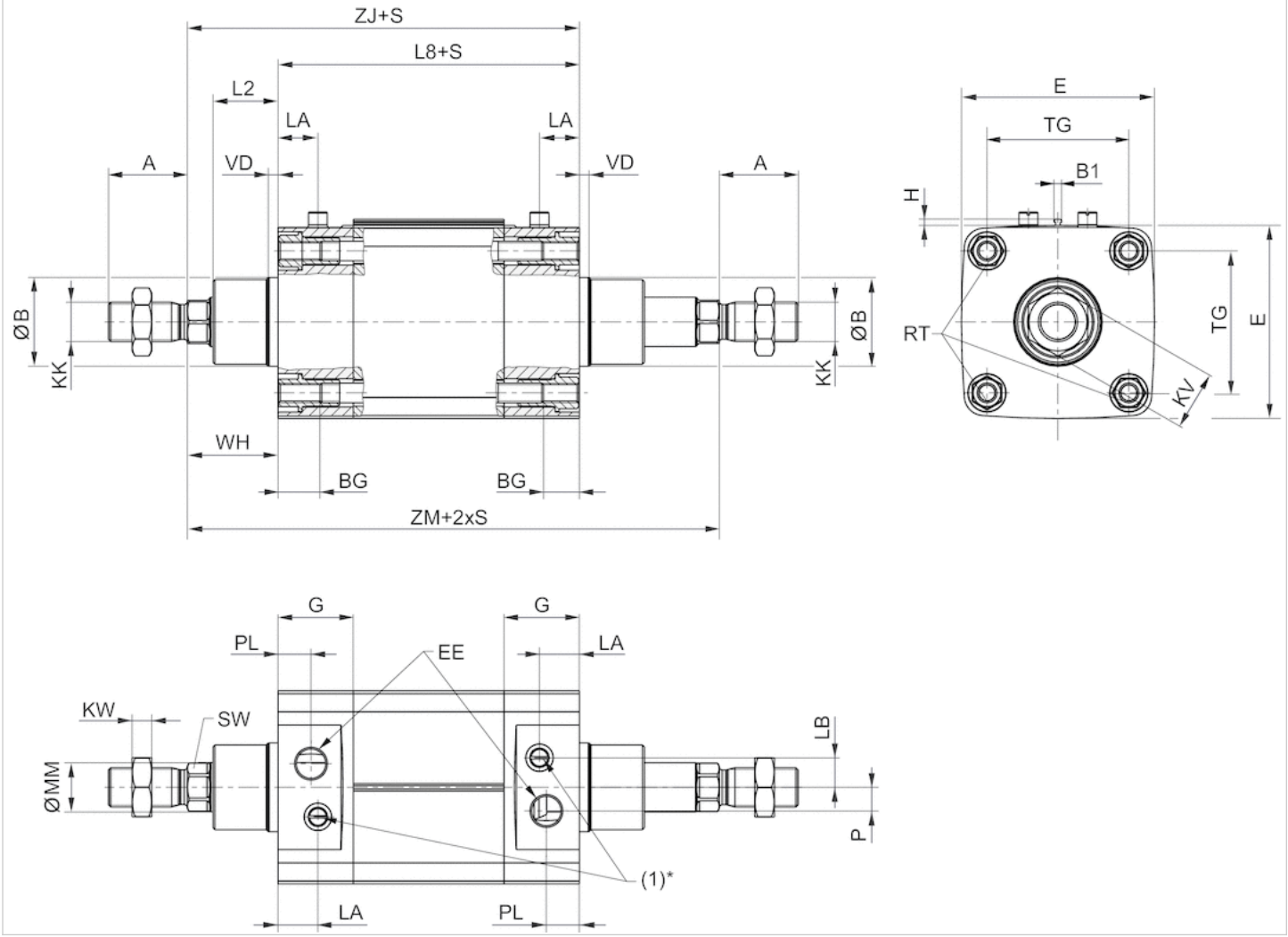
Dimensions

Dimensions



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

Ø80 - 125



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

Dimensions

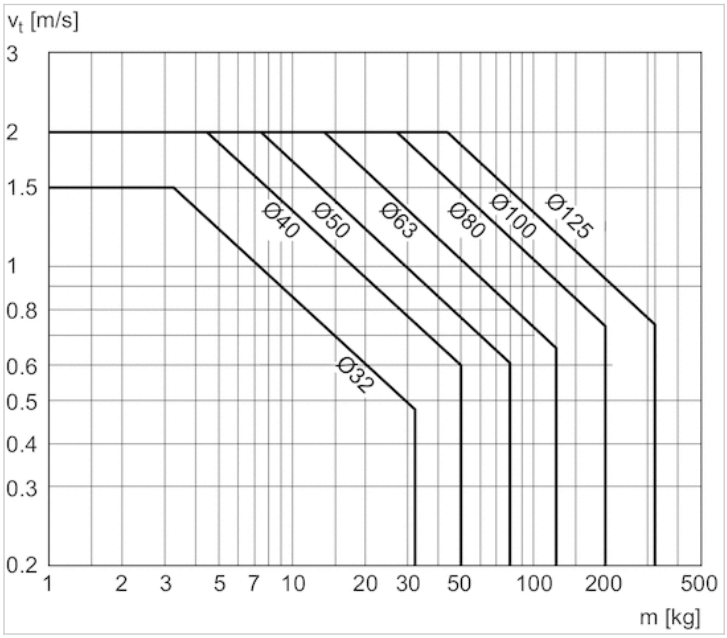
Piston Ø	A	ØB / ØBA d11	B1	BG min.	E	EE	G	H	KK	KV	KW	L2	L3 max.
32 mm	22	30	3.8	16	49.5	G1/8	27.75	3.1	M10x1,25	16	5	16	5
40 mm	24	35	3.8	16	57.5	G1/4	33.25	3.1	M12x1,25	18	6	18.25	5
50 mm	32	40	3.8	16	69.5	G1/4	31	3.1	M16x1,5	24	8	25	5
63 mm	32	45	3.8	16	79.5	G3/8	38.25	3.1	M16x1,5	24	8	25	5
80 mm	40	45	3.8	17	98	G3/8	38.25	3.1	M20x1,5	30	10	33	-
100 mm	40	55	3.8	17	115.5	G1/2	42.25	3.1	M20x1,5	30	10	36	-
125 mm	54	60	3.8	20	145	G1/2	54	3.1	M27x2	41	13.5	45	-

Piston Ø	L8	LA	LB	MM f8	P	PL	RT	SW	TG	VA	VD	WH	ZJ	ZM
32 mm	94 ±0,4	20.75	7	12	4	15.75	M6	10	32,5 ±0,5	4	4	26 ±1,4	120	146
40 mm	105 ±0,7	22.75	8	16	5	16.75	M6	13	38 ±0,5	4	5	30 ±1,4	135	165
50 mm	106 ±0,7	20	12	20	7.7	16	M8	17	46,5 ±0,6	4	5	37 ±1,4	143	180

Piston Ø	L8	LA	LB	MM f8	P	PL	RT	SW	TG	VA	VD	WH	ZJ	ZM
63 mm	121 ±0,8	27.25	11	20	11	19.25	M8	17	56,5 ±0,7	4	5	37 ±1,8	158	195
80 mm	128 ±0,8	20.25	15	25	12	16.75	M10	22	72 ±0,7	4	5	46 ±1,8	174	220
100 mm	138 ±1	24.25	14	25	17	19.25	M10	22	89 ±0,7	4	5	51 ±1,8	189	240
125 mm	160 ±1	25.5	4	32	27.5	20	M12	27	110 ±1,1	6	6	65 ±2,2	225	290

Diagrams

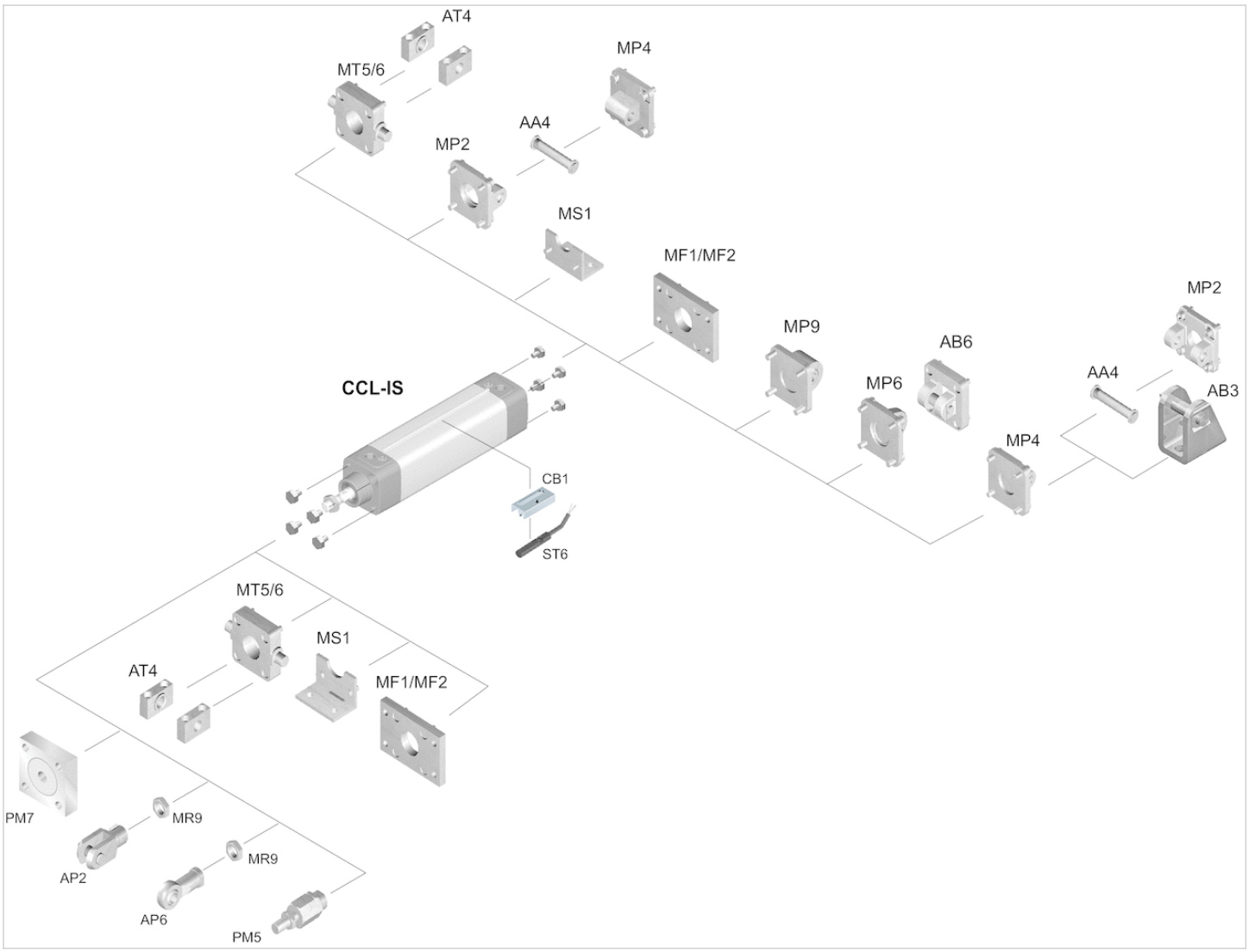
Cushioning diagram



V = velocity [m/s]
m = mass

Accessories overview

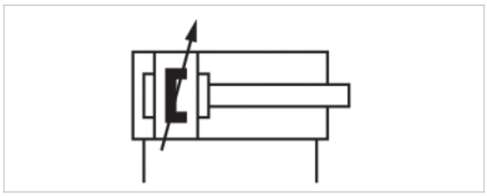
Overview drawing



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.

ISO 15552, CCL-IS-MS series

- Modular sealing system
- Ø 32-125 mm



Standards

ISO 15552

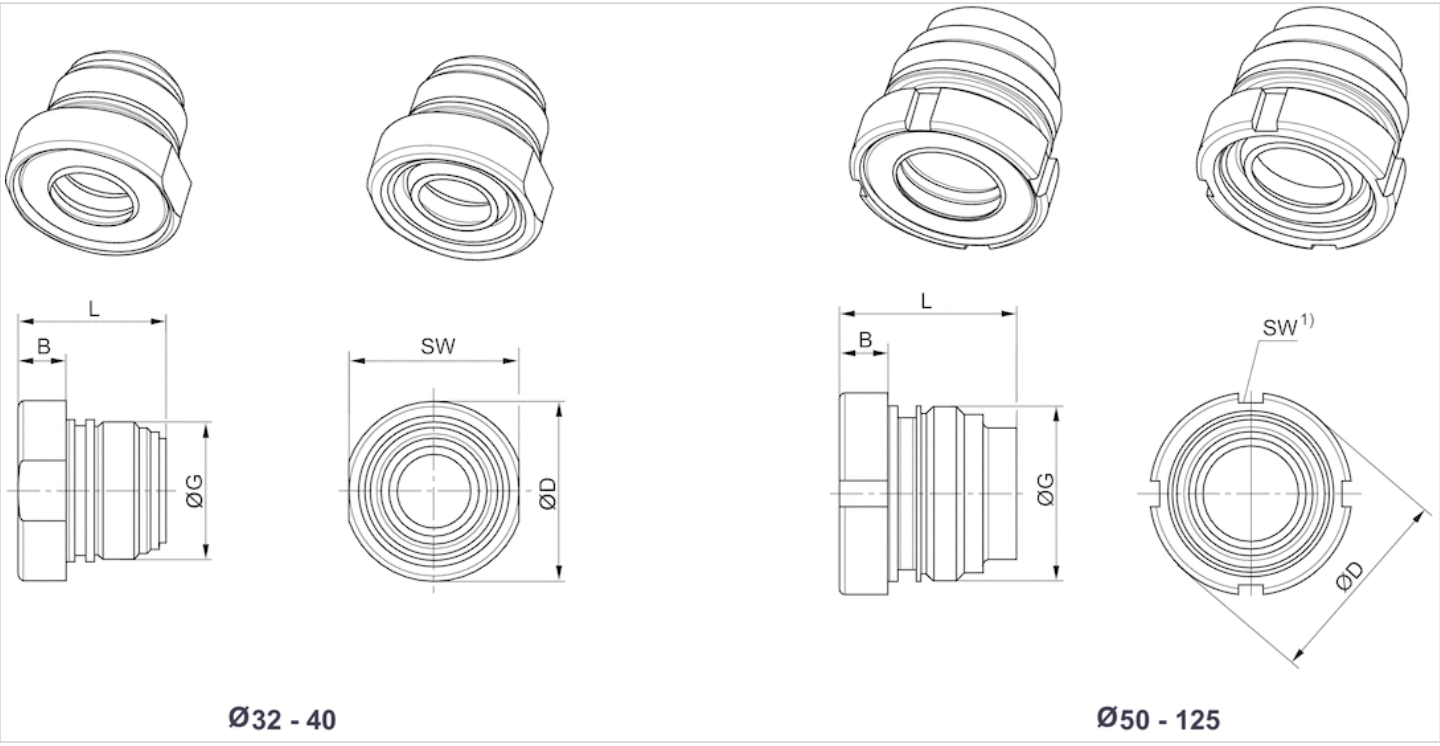
For additional technical data please see the relevant data sheets for the standard version.

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).

Dimensions

Dimensions in mm



1) Can be mounted with hook wrench in accordance with DIN 1810 A

Dimensions

Piston Ø	32
Seal	Acrylonitrile butadiene rubber
Scraper	Polyester elastomer
Ambient temperature min./max.	-20 °C ... + 80 °C

Acrylonitrile butadiene rubber	Fluorocaoutchouc
Polytetrafluorethylene	Polytetrafluorethylene
-20 °C ... + 80 °C	-10 °C ... + 120 °C

40-125	
Acrylonitrile butadiene rubber	Acrylonitrile butadiene rubber
Polyester elastomer	Polytetrafluorethylene
-20 °C ... + 80 °C	-20 °C ... + 80 °C

Fluorocaoutchouc	Acrylonitrile butadiene rubber	Fluorocaoutchouc
Polytetrafluorethylene	Brass	Brass
-10 °C ... + 120 °C	-20 °C ... + 80 °C	-10 °C ... + 120 °C

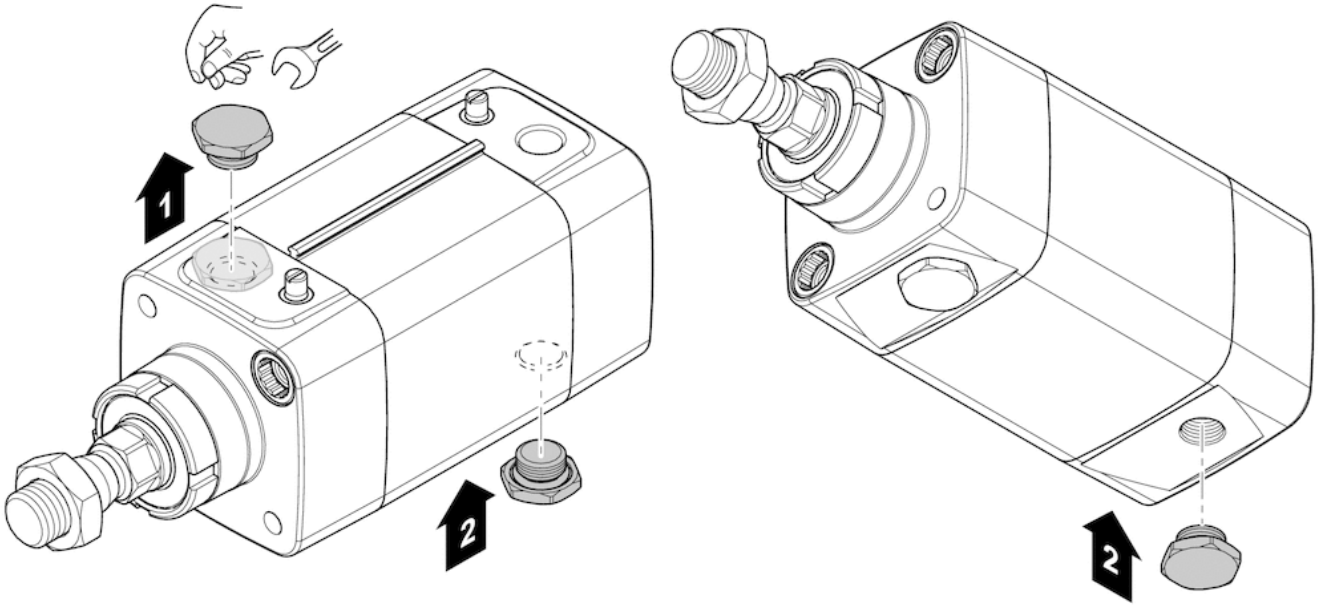
Dimensions

Ø	B	ØD	G	L	SW
32	6.7	24.5	M22x1	23	23
40	9.2	34	M26x1,5	28.1	32
50, 63	9	38.5	M33x2	33.5	40-42
80, 100	10	44	M40x2	44	45-50
125	12	57	M50x2	56	58-62

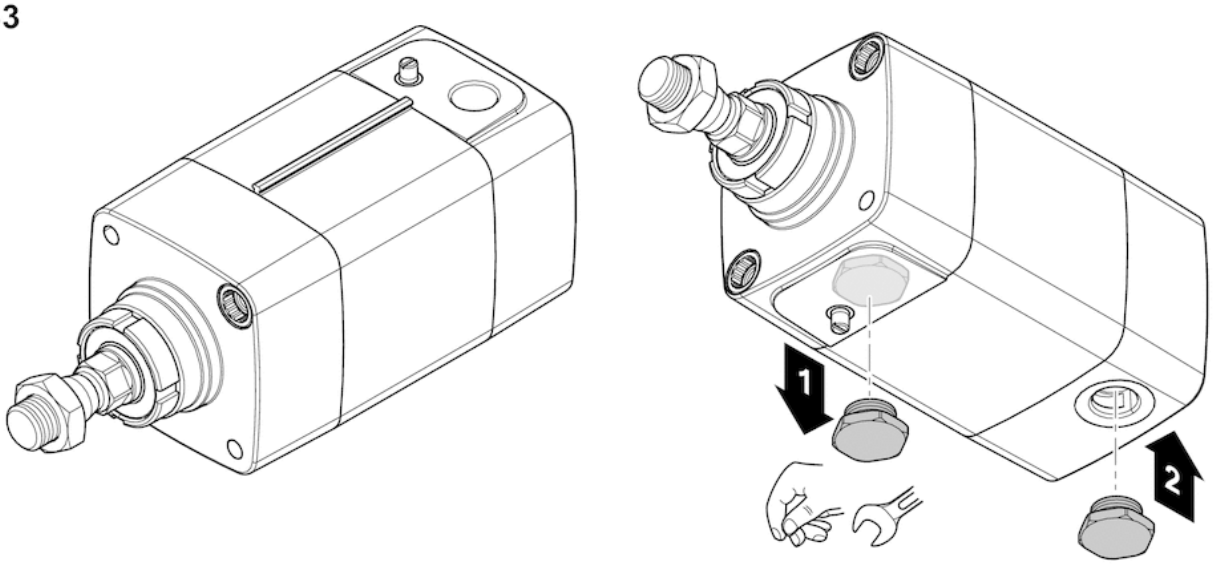
Dimensions

Option to convert from ports on one side (ports on base/ BB) to ports on both sides (ports on cover and base/ AB)

D32 - 100

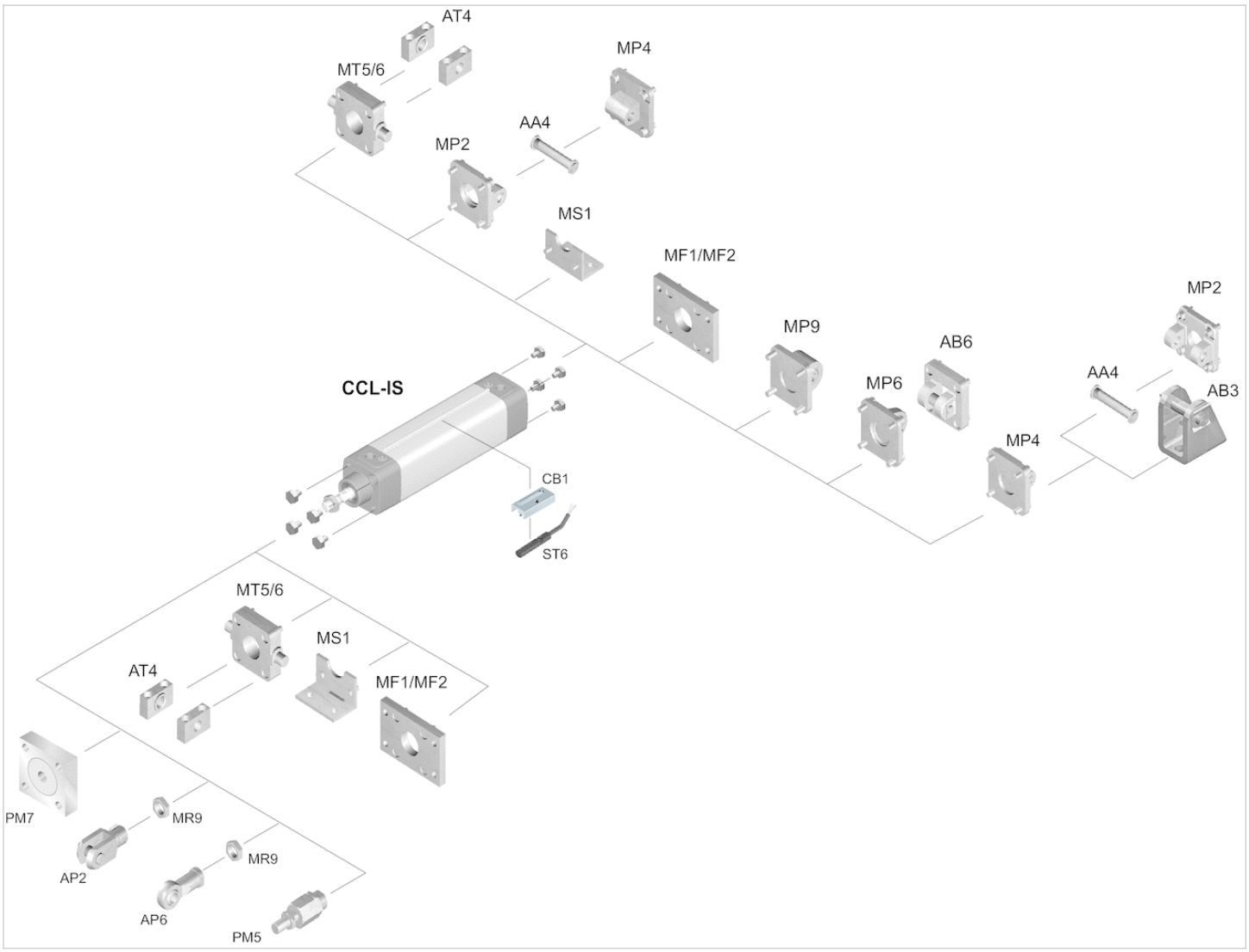


D63



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.

Clevis mounting AB6, Series CM1

- Cylinder mounting in accordance with ISO 15552
- Suitable piston Ø 32 40 50 63 80 100 125 mm

Standards ISO 15552

Technical data

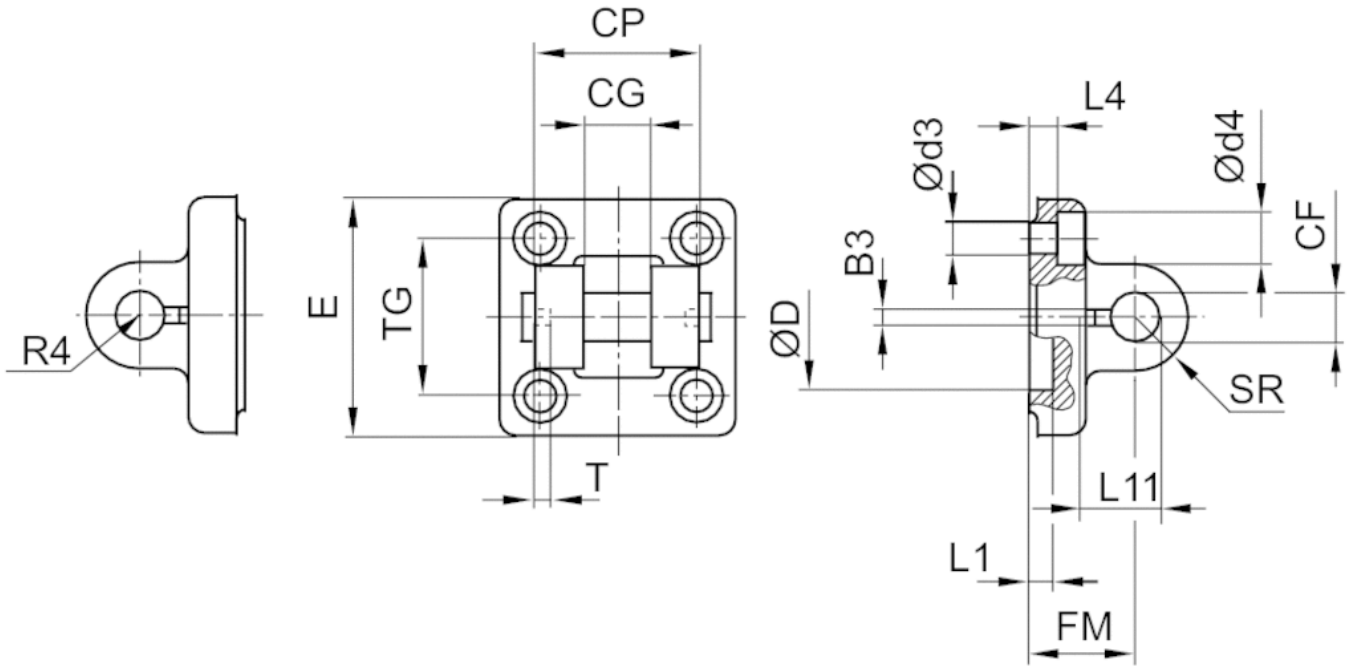
Part No.	Piston Ø	Swivel bearing Ø
1827001593	32 mm	10 mm
1827001594	40 mm	12 mm
1827001595	50 mm	16 mm
1827002024	63 mm	16 mm
1827001597	80 mm	20 mm
1827001598	100 mm	20 mm
1827001599	125 mm	30 mm

Scope of delivery: clevis mounting incl. pivot pins and mounting screws

Technical information

Material	
Material	Aluminum (forged)
Screws	Steel
	galvanized

Dimensions



Dimensions

Part No.	Piston Ø	B3 ±0,2	Ø CF F7	CG D10	CP d12	Ø d3	Ø d4	Ø D	E	FM ±0,2
1827001593	32 mm	3.3	10	14	34	6.6	11	30	49	22
1827001594	40 mm	4.3	12	16	40	6.6	11	35	55	25
1827001595	50 mm	4.3	16	21	45	9	15	40	67	27
1827002024	63 mm	4.3	16	21	51	9	15	45	77	32
1827001597	80 mm	4.3	20	25	65	11	18	45	97	36
1827001598	100 mm	4.3	20	25	75	11	18	55	117	41
1827001599	125 mm	6.3	30	37	97	14	20	60	140	50

L1 min.	L4 ±0,5	L11 –0,5	R4	SR	T ±0,2	TG
4.5	5.5	16.5	17	11	3	32,5 ±0,2
4.5	5.5	18	20	12	4	38 ±0,2
4.5	6.5	23	22	15	4	46,5 ±0,2
4.5	6.5	23	25	15	4	56,5 ±0,2
4.5	10	27	30	20	4	72 ±0,2
4.5	10	27	32	20	4	89 ±0,2
7	10	40	42	26	6	110 ±0,3

Clevis mounting AB3, Series CM1

- Suitable piston Ø 20, 25 32 mm

The delivered product may vary from that in the illustration.

Technical data

Part No.	Piston Ø	Swivel bearing Ø	Fig.
3323420000	20, 25 mm	8 mm	Fig. 2
3323432000	32 mm	10 mm	Fig. 1

Scope of delivery: clevis mounting incl. pivot pins

Technical information

Material	
Material	Stainless steel

Dimensions

Fig. 1

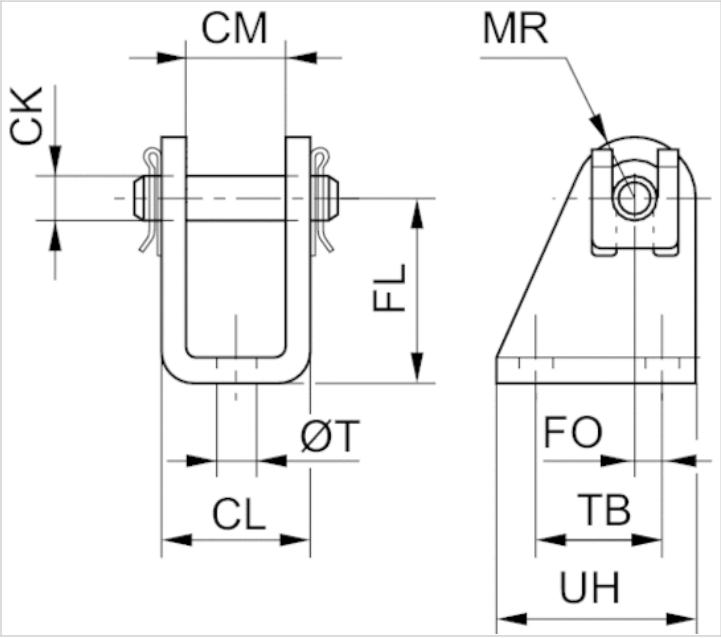
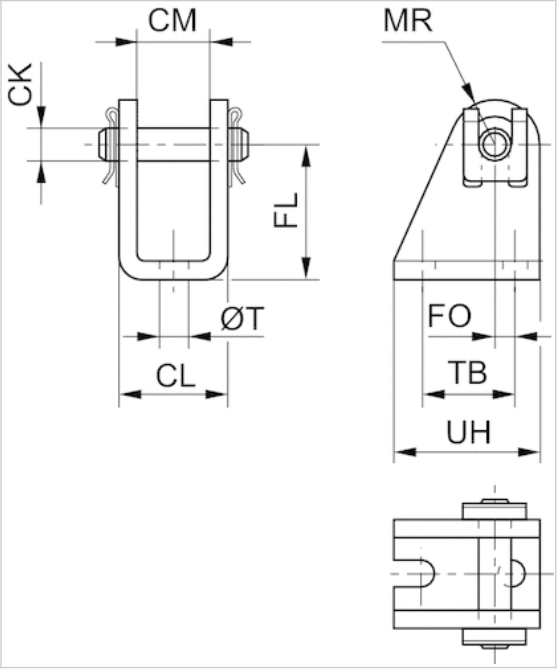


Fig. 2



Dimensions

Part No.	Piston Ø	Fig.	CM	Ø CK	CL	FL	FO	MR	Ø T	TB	UH
3323420000	20, 25 mm	Fig. 2	16	8	24	30	4,0	10	6.6	22	34
3323432000	32 mm	Fig. 1	26	10	36	32	6,0	12	6.6	24	36

Clevis mounting MP2, Series CM1

- corrosion-resistant
- Cylinder mounting in accordance with ISO 15552
- Suitable piston Ø 32 40 50 63 80 100 125 mm

Standards	ISO 15552
Weight	See table below

Technical data

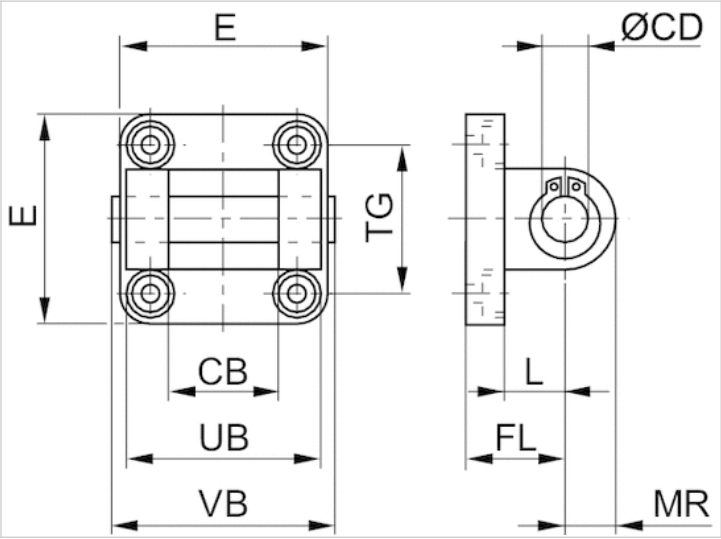
Part No.	Piston Ø	Swivel bearing Ø	Weight
3682903590	32 mm	10 mm	0.107 kg
3682904590	40 mm	12 mm	0.157 kg
3682905590	50 mm	12 mm	0.232 kg
3682906590	63 mm	16 mm	0.345 kg
3682908590	80 mm	16 mm	0.574 kg
3682910590	100 mm	20 mm	0.88 kg
R412025571	125 mm	20 mm	1.72 kg

Scope of delivery: clevis mounting incl. pivot pins and mounting screws

Technical information

Material	
Material	Aluminum (forged)
	anodized
Screws	Stainless steel
Bearing	Plastic

Dimensions



Dimensions

Part No.	CB H14	Ø CD H9	E max.	FL	L min.	MR	UB h14	VB	TG
3682903590	26	10	47	22 ±0,2	12	10	45	50	32,5 ±0,2
3682904590	28	12	54	25 ±0,2	15	12	52	57	38,0 ±0,2
3682905590	32	12	65	27 ±0,2	15	12	60	65	46,5 ±0,2
3682906590	40	16	75	32 ±0,2	20	15	70	76	56,5 ±0,2
3682908590	50	16	94	36 ±0,2	20	17	90	96	72,0 ±0,2
3682910590	60	20	112	41 ±0,2	25	21	110	117	89,0 ±0,2
R412025571	70	25	138	50	30	26	130	140	110,0 ±0,3

Rear eye MP4-HD, Series CM1

- Suitable for robust mechanical engineering applications, for clevis mounting MP2 and AB3
- Cylinder mounting in accordance with ISO 21287 ISO 15552
- Suitable piston Ø 25 32 40 50 63 80 100 125 mm

Standards See table below

Technical data

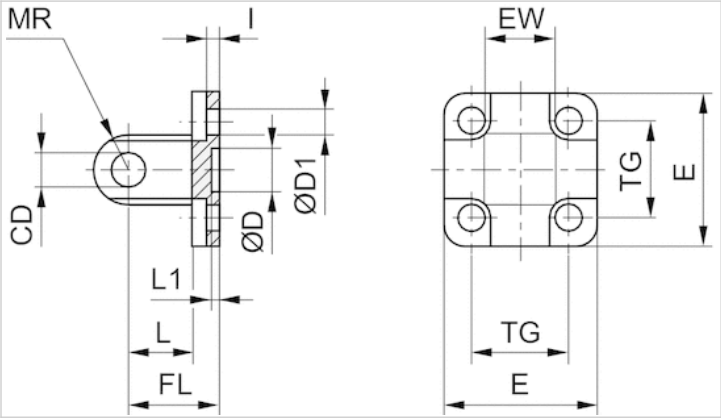
Part No.	Piston Ø	Swivel bearing Ø	Standardization	Housing material	Surface
1827002301	25 mm	8 mm	ISO 21287	Steel	galvanized
1827001283	32 mm	10 mm	ISO 15552	Aluminum (forged)	-
1827001284	40 mm	12 mm	ISO 15552	Aluminum (forged)	-
1827001285	50 mm	12 mm	ISO 15552	Aluminum (forged)	-
1827020086	63 mm	16 mm	ISO 15552	Aluminum (forged)	-
1827001287	80 mm	16 mm	ISO 15552	Aluminum (forged)	-
1827001288	100 mm	20 mm	ISO 15552	Aluminum (forged)	-
1827004866	125 mm	25 mm	ISO 15552	Aluminum (forged)	-

Scope of delivery: clevis incl. mounting screws

Technical information

Material	
Material	Steel Aluminum (forged)
	galvanized
Screws	Steel
	galvanized

Dimensions



Dimensions

Part No.	Piston Ø	CD H9	Ø D	Ø D1	E	EW	FL ±0,2	I ±0,5	L min.	L1 min.
1827002301	25 mm	8	12 H13	5.5	40	16 –0,2/–0,6	20	2.6	14	3
1827001283	32 mm	10	30 H11	6.6	48	26 –0,2/–0,6	22	5.5	12	4.5
1827001284	40 mm	12	35 H11	6.6	53	28 –0,2/–0,6	25	5.5	15	4.5
1827001285	50 mm	12	40 H11	9	63	32 –0,2/–0,6	27	6.5	15	4.5
1827020086	63 mm	16	45 H11	9	73	40 –0,2/–0,6	32	6.5	20	4.5
1827001287	80 mm	16	45 H11	11	98	50 –0,2/–0,6	36	10	20	4.5
1827001288	100 mm	20	55 H11	11	115	60 –0,2/–0,6	41	10	25	4.5
1827004866	125 mm	25	60 H11	14	140	70 –0,5/–1,2	50	10	30	7

MR max.	TG
8	26 ±0,4
10	32,5 ±0,2
12	38 ±0,2
12	46,5 ±0,2
16	56,5 ±0,2
16	72 ±0,2
20	89 ±0,2
26	110 ±0,3

Rear eye MP6, Series CM1

- With ball joint and foot
- Cylinder mounting in accordance with ISO 21287 ISO 15552
- Suitable piston Ø 25 32 40 50 63 80 100 125 mm

Standards	See table below
Weight	See table below

Technical data

Part No.	Piston Ø	Swivel bearing Ø	Standardization	Housing material
3663602000	25 mm	10 mm	ISO 21287	Aluminum (anodized)
2798060320	32 mm	10 mm	ISO 15552	Aluminum (forged and anodized)
2798060400	40 mm	12 mm	ISO 15552	Aluminum (forged and anodized)
R412025637	50 mm	16 mm	ISO 15552	Aluminum (forged and anodized)
2798060630	63 mm	16 mm	ISO 15552	Aluminum (forged and anodized)
R412025638	80 mm	20 mm	ISO 15552	Aluminum (forged and anodized)
2798061000	100 mm	20 mm	ISO 15552	Aluminum (forged and anodized)
R412025572	125 mm	30 mm	ISO 15552	Aluminum (forged and anodized)

Part No.	Bearing material, inner ring	Bearing material, outer ring	Weight
3663602000	Stainless steel	Stainless steel with PTFE coating	0.1 kg
2798060320	Stainless steel	Stainless steel with PTFE coating	0.1 kg
2798060400	Stainless steel	Stainless steel with PTFE coating	0.1 kg
R412025637	Stainless steel	Stainless steel with PTFE coating	0.2 kg
2798060630	Stainless steel	Stainless steel with PTFE coating	0.4 kg
R412025638	Stainless steel	Stainless steel with PTFE coating	0.5 kg
2798061000	Stainless steel	Stainless steel with PTFE coating	0.9 kg
R412025572	Stainless steel	Stainless steel with PTFE coating	1.46 kg

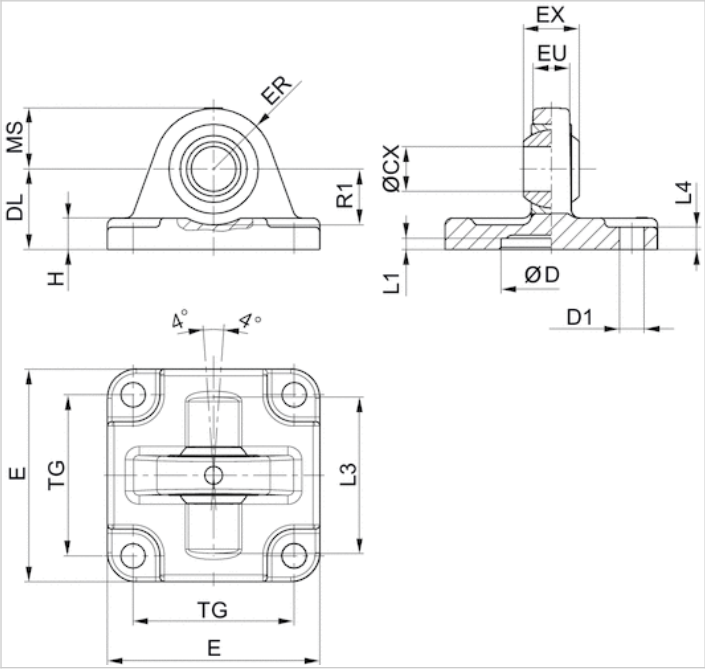
Scope of delivery: clevis incl. mounting screws

Technical information

Material	
Material	Aluminum (anodized) Aluminum (forged and anodized)
Screws	Stainless steel

Material	
Bearing	Stainless steel

Dimensions



Dimensions

Part No.	Piston Ø	ØCX H7	ØD H11	ØD1 H13	DL ±0,2	E	EX –0,1	ER	EU	H	L1 min.	L3
3663602000	25 mm	10	18	5,5	20	40	9	14	8	6	3	–
2798060320	32 mm	10	30	6,6	22	46	14	17	12,5	6.5	4.5	–
2798060400	40 mm	12	35	6,6	25	52	16	20	12	8	4.5	–
R412025637	50 mm	16	40	9	27	64	21	22	14	9	4.5	48
2798060630	63 mm	16	45	9	32	74	21	25	15	11	4,5	–
R412025638	80 mm	20	45	11	36	94	25	30	17	12	4.5	70
2798061000	100 mm	20	55	11	41	114	25	32	20	15	4,5	–
R412025572	125 mm	30	60	13,5	50	138	37	-	25	-	7	-

L4	MS -0,5	R1 min.	TG
3	14	–	26
5,5	15,5	16,5	32,5
5,5	18	19,5	38
6,5	21	19	46,5
6,5	23	25,5	56,5
10	28	24	72
10	30	31	89
10	40	32	110 ±0,3

Rear eye MP9, Series CM1

- With rubber bushing
- Cylinder mounting in accordance with ISO 21287 ISO 15552
- Suitable piston Ø 25 32 40 50 63 80 100 125 mm

Standards	See table below
Weight	See table below

Technical data

Part No.	Piston Ø	Swivel bearing Ø	Standardization	Housing material	Bearing material
3683202000	25 mm	10 mm	ISO 21287	Die-cast aluminum	Bronze
3683203000	32 mm	10 mm	ISO 15552	Aluminum (forged)	Bronze
3683204000	40 mm	12 mm	ISO 15552	Aluminum (forged)	Bronze
3683205000	50 mm	12 mm	ISO 15552	Aluminum (forged)	Bronze
3683206000	63 mm	16 mm	ISO 15552	Aluminum (forged)	Bronze
3683208000	80 mm	16 mm	ISO 15552	Aluminum (forged)	Bronze
3683210000	100 mm	20 mm	ISO 15552	Aluminum (forged)	Bronze
R412015973	125 mm	25 mm	ISO 15552	Aluminum (forged)	steel, galvanized

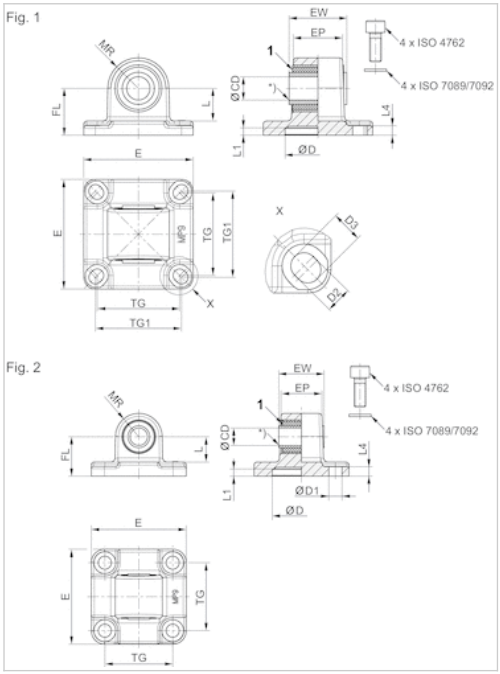
Part No.	Weight	Fig.
3683202000	0.063 kg	Fig. 1
3683203000	0.092 kg	Fig. 2
3683204000	0.143 kg	Fig. 1
3683205000	0.217 kg	Fig. 2
3683206000	0.411 kg	Fig. 1
3683208000	0.64 kg	Fig. 2
3683210000	0.956 kg	Fig. 1
R412015973	1.37 kg	Fig. 2

Scope of delivery: clevis incl. mounting screws

Technical information

Material	
Material	Die-cast aluminum Aluminum (forged)
Bearing	Bronze steel, galvanized

Dimensions



1) Rubber bushing

Dimensions

Part No.	Piston Ø	CD H11	CD H9	E	EW	EP	TG	TG1 ±0,2	FL ±0,2	L 1)	MR	L1	L4
3683202000	25 mm	10	-	40	17.5	14,5	26	27	20	14.8	12,5	3	3
3683203000	32 mm	10	-	46	25.5	18,9	32.5	–	22	13.8	12.5	5	5.5
3683204000	40 mm	-	12	53	27	23,5	38	40	25	16.3	15	5	5.5
3683205000	50 mm	-	12	65	31	28	46.5	–	27	17.3	16	5	6.5
3683206000	63 mm	-	16	75	39.5	33.5	56.5	59	32	22.3	21	5	6.5
3683208000	80 mm	-	16	94.5	49.5	43	72	–	36	21.8	22	5	10
3683210000	100 mm	-	20	114	59.5	54	89	90	41	25.8	25	5	10
R412015973	125 mm	-	25	138	69.5	60	110	–	50	33.8	34	7.5	10

D H11	D1 H13	D2 -0,2	D3 -0,2	Fig.
18	–	5,5	6,2	Fig. 1
30	6.6	–	–	Fig. 2
35	–	6.6	8	Fig. 1
40	9	–	–	Fig. 2
45	6.6	–	–	Fig. 1
45	11	–	–	Fig. 2
55	–	11	11.7	Fig. 1
60	13.5	–	–	Fig. 2

Trunnion mounting MT5, MT6, Series CM1

- for mounting to the cylinder cover or base
- Suitable piston Ø 25 32 40 50 63 80 100 125 mm
- for series CCL-IC/-IS CCI, CVI, CCL-IC/-IS, PRA/TRB CVI, CCL-IS, PRA, TRB

Weight

See table below

The delivered product may vary from that in the illustration.

Technical data

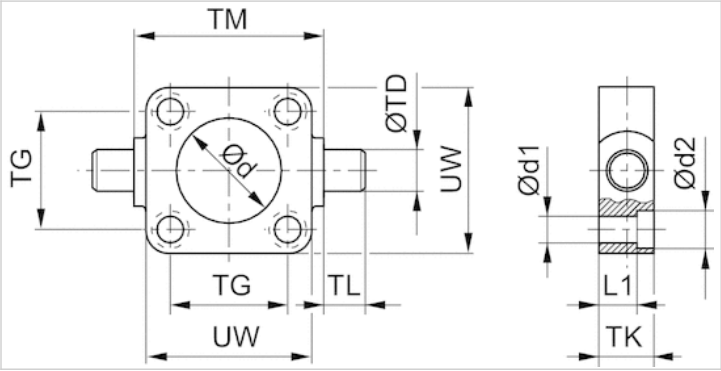
Part No.	Piston Ø	Housing material	Surface	Weight
R412026354	25 mm	Aluminum	anodized	-
1827001609	32 mm	Nodular graphite iron	galvanized	0.29 kg
1827001610	40 mm	Nodular graphite iron	galvanized	0.5 kg
1827001611	50 mm	Nodular graphite iron	galvanized	0.7 kg
1827002046	63 mm	Nodular graphite iron	galvanized	1.1 kg
1827001613	80 mm	Nodular graphite iron	galvanized	1.5 kg
1827001614	100 mm	Nodular graphite iron	galvanized	2.7 kg
1827001615	125 mm	Nodular graphite iron	galvanized	3.8 kg

Scope of delivery: trunnion mounting incl. mounting screws

Technical information

Material	
Material	Aluminum Nodular graphite iron
	anodized galvanized
Screws	Steel
	galvanized

Dimensions



Dimensions

Part No.	Piston Ø	Ø d H11	Ø d1	Ø d2	L1	TD e9	TG ±0,2	TK	TL h14	TM h14	UW
R412026354	25 mm	24	5.5	10	8	12	26	14	12	42	39
1827001609	32 mm	30	6.6	11	7.5	12	32.5	16	12	50	48
1827001610	40 mm	35	6.6	11	7.5	16	38	20	16	63	56
1827001611	50 mm	40	9	15	10	16	46.5	24	16	75	65
1827002046	63 mm	45	9	15	10	20	56.5	24	20	90	75
1827001613	80 mm	45	11	18	16	20	72	28	20	110	100
1827001614	100 mm	55	11	18	25.5	25	89	38	25	132	120
1827001615	125 mm	60	14	20	34	25	110	46	25	160	145

Bearing AT4, Series CM1

- for trunnion mounting MT4, MT5, MT6
- Cylinder mounting in accordance with ISO 15552
- Suitable piston Ø 20, 25, 32 40, 50 63, 80 100, 125 mm
- for series CCI, CCL-IC, ICL, KPZ, PRA/TRB CCI, CCL-IC, KPZ, PRA/TRB

Standards ISO 15552

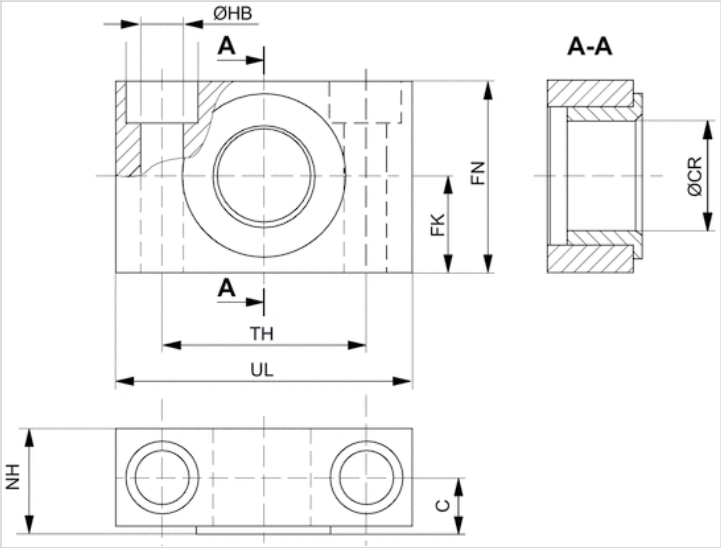
Technical data

Part No.	Piston Ø	Swivel bearing Ø	Scope of delivery
1827001603	20, 25, 32 mm	12 mm	2 piece
1827001604	40, 50 mm	16 mm	2 piece
1827001605	63, 80 mm	20 mm	2 piece
1827001606	100, 125 mm	25 mm	2 piece

Technical information

Material	
Material	Steel
	galvanized
Guide bushing	Sintered bronze

Dimensions



Dimensions

Part No.	Piston Ø	UL	NH	TH	C	CR H9	HB H13	FN	FK	Plain bearing
1827001603	20, 25, 32 mm	46	18	32 ±0,2	10.5	12	6.6	30	15 ±0,1	Sintered bronze
1827001604	40, 50 mm	55	21	36 ±0,2	12	16	9	36	18 ±0,1	Sintered bronze
1827001605	63, 80 mm	65	23	42 ±0,2	13	20	11	40	20 ±0,1	Sintered bronze
1827001606	100, 125 mm	75	28.5	50 ±0,2	16	25	14	50	25 ±0,1	Sintered bronze

Flange mounting MF1, MF2, Series CM1

- Cylinder mounting in accordance with ISO 15552
- Suitable piston Ø 32 40 50 63 80 100 125 mm

Standards ISO 15552

Technical data

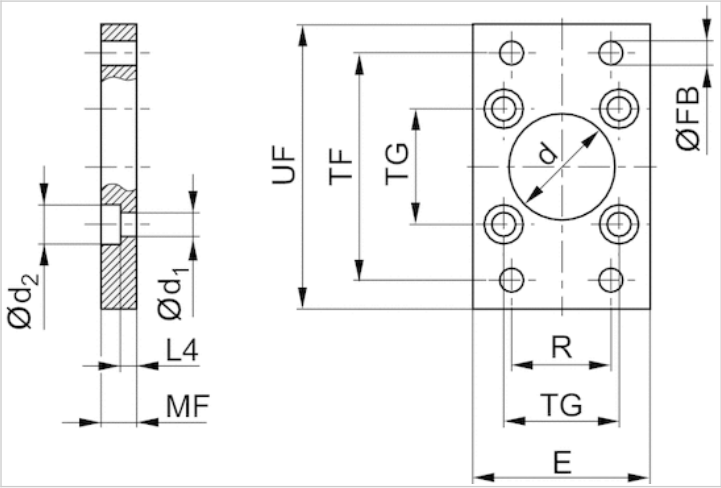
Part No.	Piston Ø	Swivel bearing Ø
1827001277	32 mm	30 mm
1827001278	40 mm	35 mm
1827001279	50 mm	40 mm
1827001499	63 mm	45 mm
1827001281	80 mm	45 mm
1827001282	100 mm	55 mm
1827004861	125 mm	60 mm

Scope of delivery: flange mounting incl. mounting screws

Technical information

Material	
Material	Steel
	galvanized
Screws	Steel
	galvanized

Dimensions



Dimensions

Part No.	Piston Ø	Ød H11	Ød1	Ød2	E max.	ØFB	L4	MF	R	TF	TG	UF
1827001277	32 mm	30	6.6	11	50	7	4.5	10	32	64	32,5 ±0,2	80
1827001278	40 mm	35	6.6	11	55	9	4.5	10	36	72	38 ±0,2	90
1827001279	50 mm	40	9	15	65	9	6	12	45	90	46,5 ±0,2	110
1827001499	63 mm	45	9	15	75	9	6	12	50	100	56,5 ±0,2	125
1827001281	80 mm	45	11	18	100	12	9	16	63	126	72 ±0,2	154
1827001282	100 mm	55	11	18	120	14	9	16	75	150	89 ±0,2	186
1827004861	125 mm	60	14	20	140	16	10.5	20	90	180	110 ±0,3	220

Foot mounting MS1, Series CM1

- to mount on cylinder PRA, TRB, CCL-IS/-IC, CCI, KPZ, 167, CVI, ITS
- Cylinder mounting in accordance with ISO 15552
- Suitable piston Ø 32 40 50 63 80 100 125 mm

Standards ISO 15552

Technical data

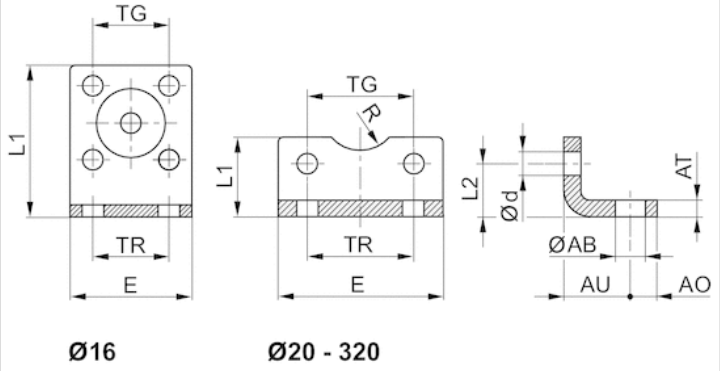
Part No.	Piston Ø	For series
1827001271	32 mm	PRA/TRB CCL-IC/-IS CCI CVI
1827001272	40 mm	PRA/TRB CCL-IC/-IS CCI CVI
1827001273	50 mm	PRA/TRB CCL-IC/-IS CCI CVI
1827001498	63 mm	PRA/TRB CCL-IC/-IS CCI CVI
1827001275	80 mm	PRA/TRB CCL-IC/-IS CCI CVI
1827001276	100 mm	CCI CCL-IC/-IS PRA/TRB CVI
1827001310	125 mm	PRA/TRB CCL-IS CVI

Scope of delivery: 2 foot mountings incl. mounting screws

Technical information

Material	
Material	Steel
	galvanized
Screws	Steel
	galvanized

Dimensions



Dimensions

Part No.	Piston Ø	ØAB	AO	AT	AU ±0,2	Ød	E	L1	L2	R	TG	TR
1827001271	32 mm	7	8	4 ±0,3	24	6.6	48	25	15.5	15	32,5 ±0,2	32
1827001272	40 mm	10	10	4 ±0,3	28	6.6	56	26	17	17.5	38 ±0,2	36
1827001273	50 mm	10	11	5 ±0,3	32	9	68	32	21.5	20	46,5 ±0,2	45
1827001498	63 mm	10	13	5 ±0,3	32	9	78	34	21.5	22.5	56,5 ±0,2	50
1827001275	80 mm	12	16	6 ±0,5	41	11	98	47	27	22.5	72 ±0,2	63
1827001276	100 mm	14.5	19	6 ±0,5	41	11	117	52	26.5	27.5	89 ±0,2	75
1827001310	125 mm	16.5	20	8 ±1,0	45	13.5	144	69	35	30	110 ±0,3	90

Bolts AA4, Series CM1

- Cylinder mounting in accordance with ISO 15552
- Suitable piston Ø 32 40 50 63 80 100 125 mm

Standards	See table below
Weight	See table below

Technical data

Part No.	Piston Ø	Standardization	Weight	Fig.
1823120020	32 mm	-	0.03 kg	Fig. 1
1823120021	40 mm	-	0.05 kg	Fig. 1
1823120022	50 mm	-	0.06 kg	Fig. 1
1823120023	63 mm	-	0.12 kg	Fig. 1
1823120024	80 mm	-	0.15 kg	Fig. 1
1823120025	100 mm	-	0.29 kg	Fig. 1
5236000092	125 mm	ISO 15552	0.53 kg	Fig. 2

Scope of delivery: pivot pins incl. circlips

Technical information

Material	
Material	Steel
	galvanized

Dimensions

Fig. 1

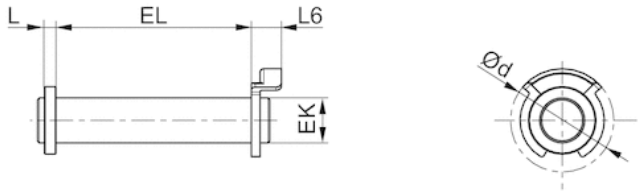
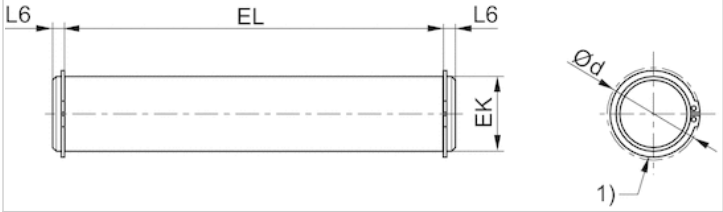


Fig. 2



1) circlip DIN 471

Dimensions

Part No.	Piston Ø	Fig.	Ø d max.	EK e8	EL	L max.	L6 max.
1823120020	32 mm	Fig. 1	20	10	45.2 +0,3	3.5	9
1823120021	40 mm	Fig. 1	22	12	52.2 +0,3	4	9
1823120022	50 mm	Fig. 1	22	12	60.2 +0,3	4	9
1823120023	63 mm	Fig. 1	28	16	70.2 +0,3	4.5	11
1823120024	80 mm	Fig. 1	28	16	90.2 +0,3	4.5	11
1823120025	100 mm	Fig. 1	38	20	110.2 +0,3	5	11
5236000092	125 mm	Fig. 2	34.2	25	132 +0,5	-	3.75

Blanking screw

- M4 M5 M6 M8 M10 M12

Technical data

Part No.	Port G	Delivery unit	Fig.
R412024762	M4	4 piece	Fig. 1
R412024763	M5	4 piece	Fig. 1
R402003749	M6	4 piece	Fig. 1
R402003750	M8	4 piece	Fig. 1
R402003751	M10	4 piece	Fig. 2
R402003752	M12	4 piece	Fig. 2

Technical information

Material	
Material	Stainless steel

Dimensions

Fig. 1

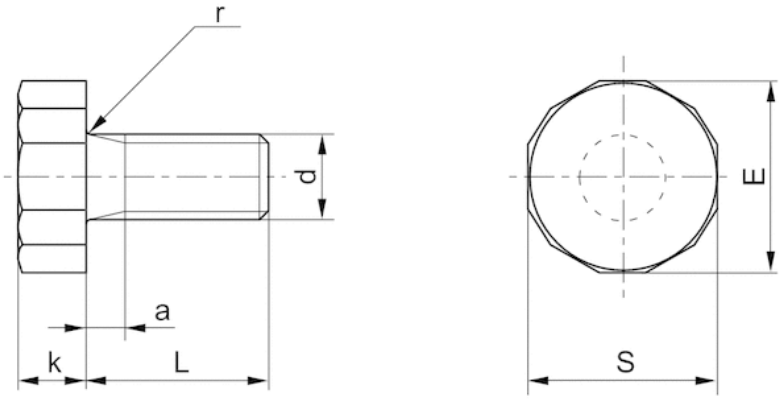
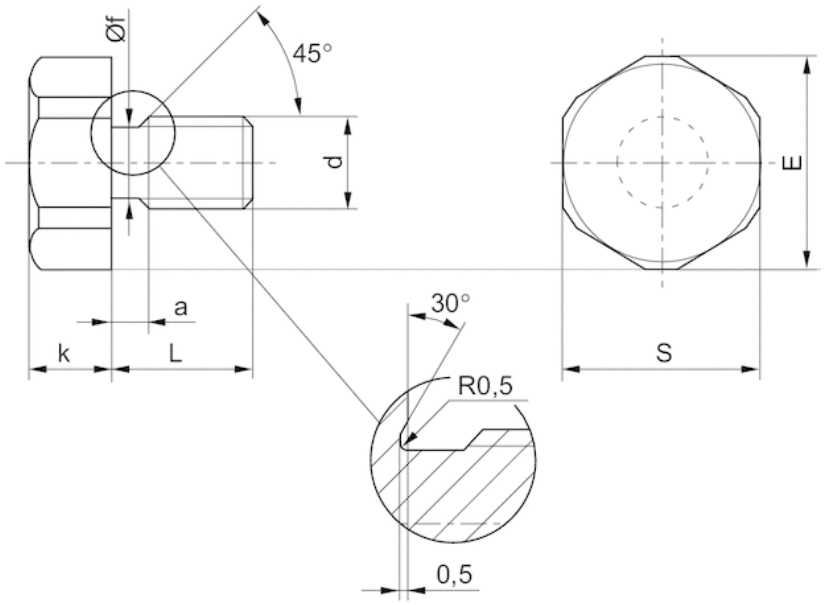


Fig. 2



Dimensions in mm

Part No.	a	d	E	k	L	S	r
R412024762	2	M4	9.8	3.9	10	9.8	0.5
R412024763	3	M5	11	4	12	12	0.5
R402003749	3	M6	14	5.3	16	13	0.7
R402003750	3	M8	18	6.4	17	16	0.7
R402003751	4	M10	24	7,9	8.8	15	21
R402003752	4	M12	30	9,5	11.5	18	27

Piston rod nut MR9

Weight See table below

Technical data

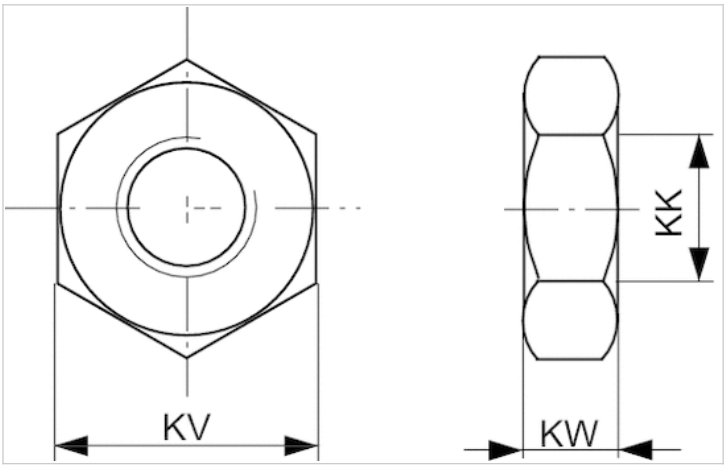
Part No.	Suitable piston rod thread	Material	Weight	
8103190464	M10x1,25	Stainless steel	0.008 kg	-
3590304000	M12x1,25	Stainless steel	0.02 kg	-
3590305000	M16x1,5	Stainless steel	0.03 kg	1)
3590308000	M20x1,5	Stainless steel	0.05 kg	-
2990600312	M27x2	Stainless steel, acid-proof	0.07 kg	-

1) 3590305000 can also be used as an MR3, nut for cylinder mounting.

Technical information

Material	
	Stainless steel Stainless steel, acid-proof

Dimensions



Dimensions

Part No.	KK	KV	KW
8103190464	M10x1,25	17	5
3590304000	M12x1,25	19	6
3590305000	M16x1,5	24	8
3590308000	M20x1,5	30	10
2990600312	M27x2	41	13.5

Rod clevis AP2, Series CM2

- with circlip, to mount on cylinder CCL-IS/IC, CCI, SSI, CSL-RD, ICM, ICS-D2, 167

Weight See table below

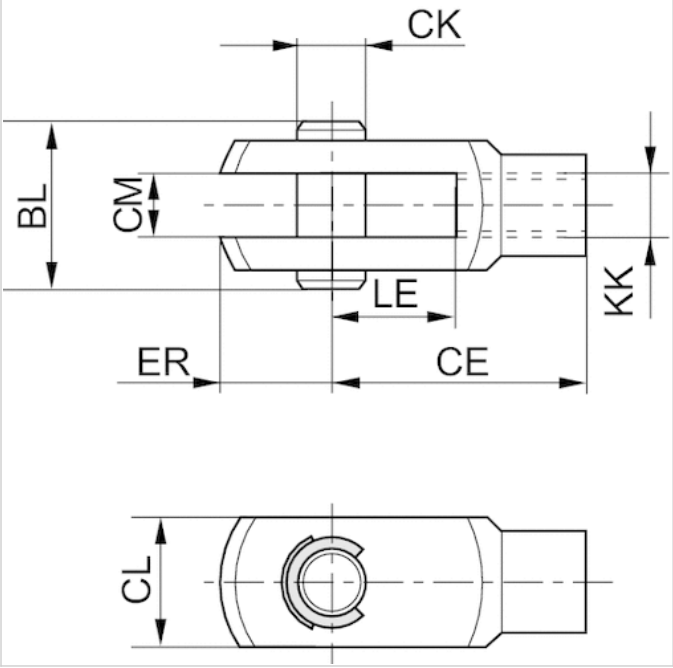
Technical data

Part No.	Suitable piston rod thread	for	Weight
3590502000	M10x1,25	CCL-IS CCL-IC CCI CSL-RD SSI ICM ICS-D2 167	0.1 kg
3590504000	M12x1,25	CCL-IS CCL-IC CCI SSI 167 ICS-D2	0.16 kg
3590505000	M16x1,5	CCL-IS ICS-D2 167	0.4 kg
3590508000	M20x1,5	CCL-IS ICS-D2 167	0.7 kg

Technical information

Material	
	Stainless steel

Dimensions



Dimensions

Part No.	KK	CE	CK e8	CL	CM B12	ER	BL	LE
3590502000	M10x1,25	40	10	20	10	12	26	20
3590504000	M12x1,25	48	12	24	12	14	31	24
3590505000	M16x1,5	64	16	32	16	19	39	32
3590508000	M20x1,5	80	20	40	20	20	49	40

Rod clevis AP2, Series CM2

- to mount on cylinder PRA, TRB, CCI, MNI, ICM, KPZ, KHZ, 167, CVI, RPC, RDC, ITS

Weight 2 kg

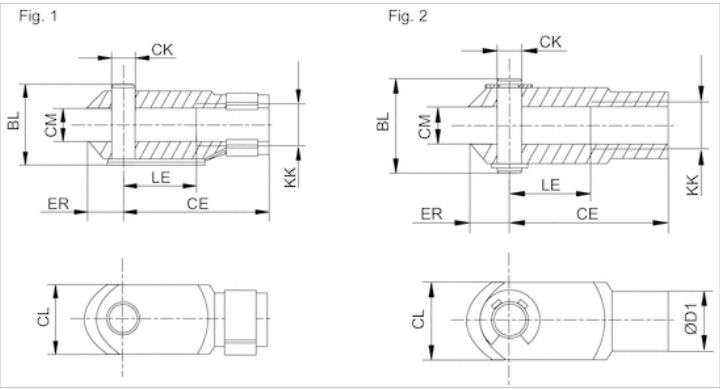
Technical data

Part No.	Suitable piston rod thread	for	Fig.
1827001493	M27x2	PRA TRB CCL-IS 167 CVI	Fig. 2

Technical information

Material	
	Steel
	galvanized

Dimensions



Dimensions

Part No.	KK	BL	CE	ØCK e11	CL	CM	ØD1	ER	LE	Fig.
1827001493	M27x2	68	110	30	55	30	48	38	54	Fig. 2

Ball eye rod end AP6, series CM2

- with flange, to mount on cylinder CCL-IS/IC, SSI, CSL-RD, ICM, ICS-D2

Weight See table below

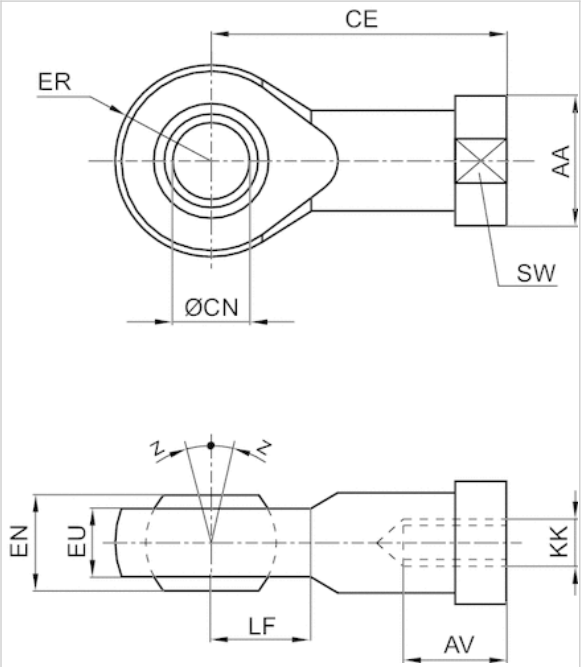
Technical data

Part No.	Suitable piston rod thread	for	Swivel bearing Ø	Weight
8958209032	M10x1,25	CCL-IS CCL-IC SSI CSL-RD ICM ICS-D2	254 mm	0.09 kg
8958209042	M12x1,25	CCL-IS CCL-IC SSI ICS-D2	304.8 mm	0.12 kg
8958209052	M16x1,5	CCL-IS CCL-IC SSI ICS-D2	406.4 mm	0.23 kg
8958209062	M20x1,5	CCL-IS SSI ICS-D2	508 mm	0.41 kg
8958209072	M27x2	CCL-IS	762 mm	1.24 kg

Technical information

Material	
	Stainless steel

Dimensions



Dimensions

Part No.	KK	AA	AV min.	CE	Ø CN H7	EN –0,1	ER	EU max.	LF	SW	Z [°] max.
8958209032	M10x1,25	19	15	43	10	14	14	10.5	14	17	6,5
8958209042	M12x1,25	22	18	50	12	16	16	12	16	19	6,5
8958209052	M16x1,5	27	24	64	16	21	21	15	21	22	7,5
8958209062	M20x1,5	34	30	77	20	25	25	18	25	30	7,5
8958209072	M27x2	50	45	110	30	37	35	25	35	41	7,5

Compensating coupling PM5, series CM2

- to mount on cylinder PRA, TRB, CCL-IS/-IC, CCI, SSI, MNI, KPZ, KHZ, 167, CVI, RPC, RDC, ITS, spherical

Weight See table below

Technical data

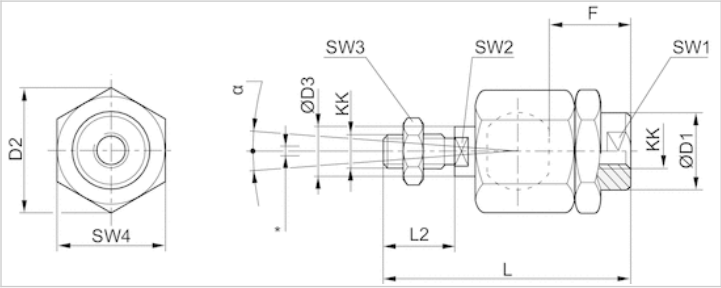
Part No.	Suitable piston rod thread	for
R412026142	M10x1,25	PRA TRB CCL-IS CCL-IC CCI SSI KPZ 167 CVI RPC
R412026143	M12x1,25	PRA TRB CCI CCL-IS CCL-IC SSI KPZ 167 CVI RPC
R412026144	M16x1,5	PRA TRB CCI CCL-IS CCL-IC KPZ 167 CVI RPC RDC
R412026145	M20x1,5	PRA TRB CCL-IS SSI KPZ 167 CVI
1826409006	M27x2	PRA TRB CCL-IS CVI

Part No.	Weight
R412026142	0.21 kg
R412026143	0.21 kg
R412026144	0.65 kg
R412026145	0.68 kg
1826409006	1.7 kg

Technical information

Material	
	Steel
	galvanized

Dimensions



* Radial joint

Dimensions

Part No.	KK	Ø D1	D2	Ø D3	F	L ±2	L2	SW1	SW2	SW3	SW4	α [°]	1)	2)
R412026142	M10x1,25	22	32	14	23	74.5	23	19	12	17	30	8	0.05-0.5	0-2
R412026143	M12x1,25	22	32	14	24	75	24	19	12	19	30	7	0.05-0.5	0-2
R412026144	M16x1,5	32	45	22	30	103	30	30	20	24	41	6	0.05-0.5	0-2
R412026145	M20x1,5	32	45	22	40	119	40	30	20	30	41	6	0.05-0.5	0-2
1826409006	M27x2	62	62	28	48	147	54	32	24	41	55	8	0.05-0.2	0-2

1) Axial play

2) Radial play

Compensating coupling PM7, series CM2

- to mount on cylinder PRA, TRB, CCL-IS/-IC, CCI, SSI, KPZ, 167, CVI, RPC, ITS, with plate

Weight See table below

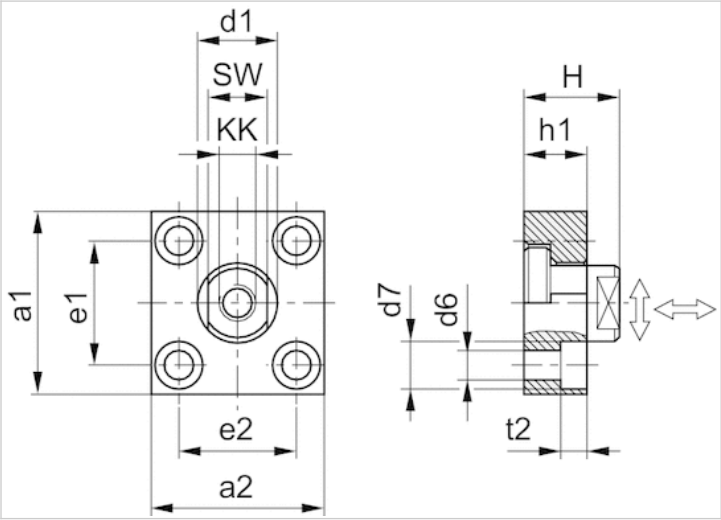
Technical data

Part No.	Suitable piston rod thread	for	Weight
1827001629	M10x1,25	PRA TRB CCL-IS CCL-IC CCI SSI KPZ RPC 167	0.3 kg
1827001630	M12x1,25	PRA TRB CCL-IS CCL-IC CCI SSI KPZ RPC 167	0.4 kg
1827001631	M16x1,5	PRA TRB CCL-IS CCL-IC CCI SSI KPZ RPC 167	0.9 kg
1827001632	M20x1,5	PRA TRB CCL-IS SSI KPZ CVI 167	1.15 kg
1827001633	M27x2	PRA TRB CCL-IS CVI	1.1 kg

Technical information

Material	
	Steel
	galvanized

Dimensions



Dimensions

Part No.	a1	a2	d1 h11	d6 H13	d7 H13	e1 H13	e2	h1	t2	H	SW
1827001629	60	37	20	6.6	11	36 ±0,15	23 ±0,15	15	7	24	17
1827001630	60	56	25	9	15	42 ±0,2	38 ±0,2	20	9	30	19
1827001631	80	80	30	11	18	58 ±0,2	58 ±0,2	20	11	32	24
1827001632	90	90	40	14	20	65 ±0,3	65 ±0,3	20	13	35	36
1827001633	90	90	40	14	20	65 ±0,3	65 ±0,3	20	13	35	36

Tightening torque for the coupling pin Ma ± 5%	Axial play min./max.	Radial play min./max.
17 Nm	0.4 0.8 mm	1.9 2.3 mm
29 Nm	0.4 0.8 mm	1.9 2.3 mm
71 Nm	0.4 0.8 mm	1.9 2.3 mm
138 Nm	0.4 0.8 mm	1.9 2.3 mm
350 Nm	0.4 20.31 mm	1.9 2.3 mm

Series CAT

- Measuring instrument for adjusting the pneumatic cushioning
- for MNI, CSL-RD, CCL-IS, ICS, RPC, PRA/TRB, ITS

Certificates	CE declaration of conformity
Ambient temperature min./max.	0 ... 40 °C
Measurement range Min.	0.2 m/s
Measurement range Max.	2 m/s
LED status display	Green Yellow Red
Protection class	IP50
Weight	0.12 kg

Technical data

Part No.	for series
R412026160	MNI, CSL-RD, CCL-IS, ICS, RPC, PRA/TRB, ITS

Scope of delivery: 1 measuring instrument, 2 fastening strips, 1 power pack 3.7 V, 1 USB charging cable, Operating instructions, QR code notice, 1 case with foam inlay

Technical information

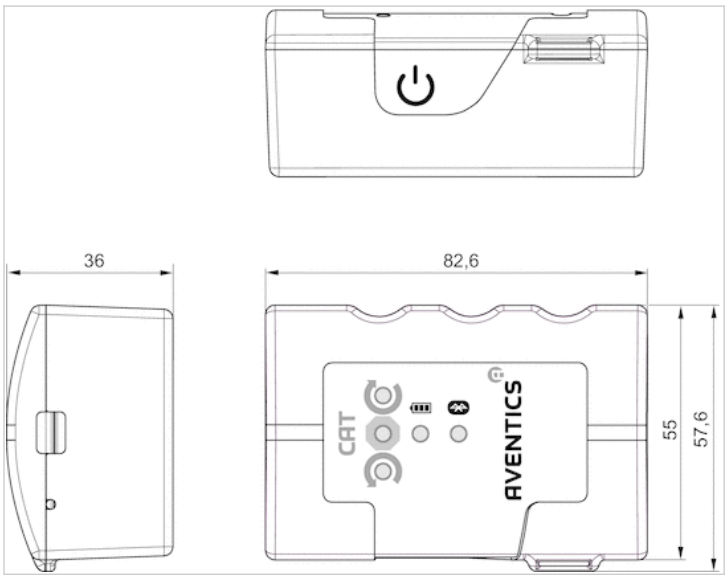
The CAT measuring instrument uses Bluetooth radio technology for wireless connection with the "Aventics" app, which is available free of charge in the Android/Play Store and/or the IOS/App Store.

Technical information

Material	
Housing	Luran S

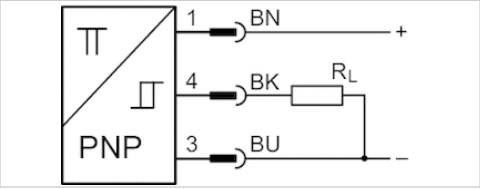
Dimensions

Dimensions



Sensor, Series ST6

- 6 mm T-slot
- with cable
- open cable ends, 3-pin
- ATEX
- UL certification, ATEX
- electronic PNP
- Direct mounting for series PRA, PRE, CCI, KPZ, SSI, GPC, CVI
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, RPC, ICS-D2, ICM, KHZ, TRR



Certificates	ATEX CE declaration of conformity cULus RoHS
ATEX class G	II 3G Ex nA IIC T4 Gc X
ATEX class D	II 3D Ex tc IIIC T135°C Dc X
Ambient temperature min./max.	-20 ... 50 °C
Protection class	IP67
Switching point precision	±0,1 mT
Quiescent current (without load)	10 mA
Min./max. DC operating voltage	10 ... 30 V DC
Switching logic	NO (make contact)
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Cable length L	3 5 m

Technical data

Part No.	for	Type of contact	Cable length L
R412022854	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP	3 m
R412022856	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP	5 m

Part No.	Voltage drop U at Imax	DC switching current, max.
R412022854	≤ 2,5 V	0.1 A
R412022856	≤ 2,5 V	0.1 A

Part No.	Max. switching frequency
R412022854	1000 Hz
R412022856	1000 Hz

Part No.	Version
R412022854	short circuit resistant Protected against polarity reversal

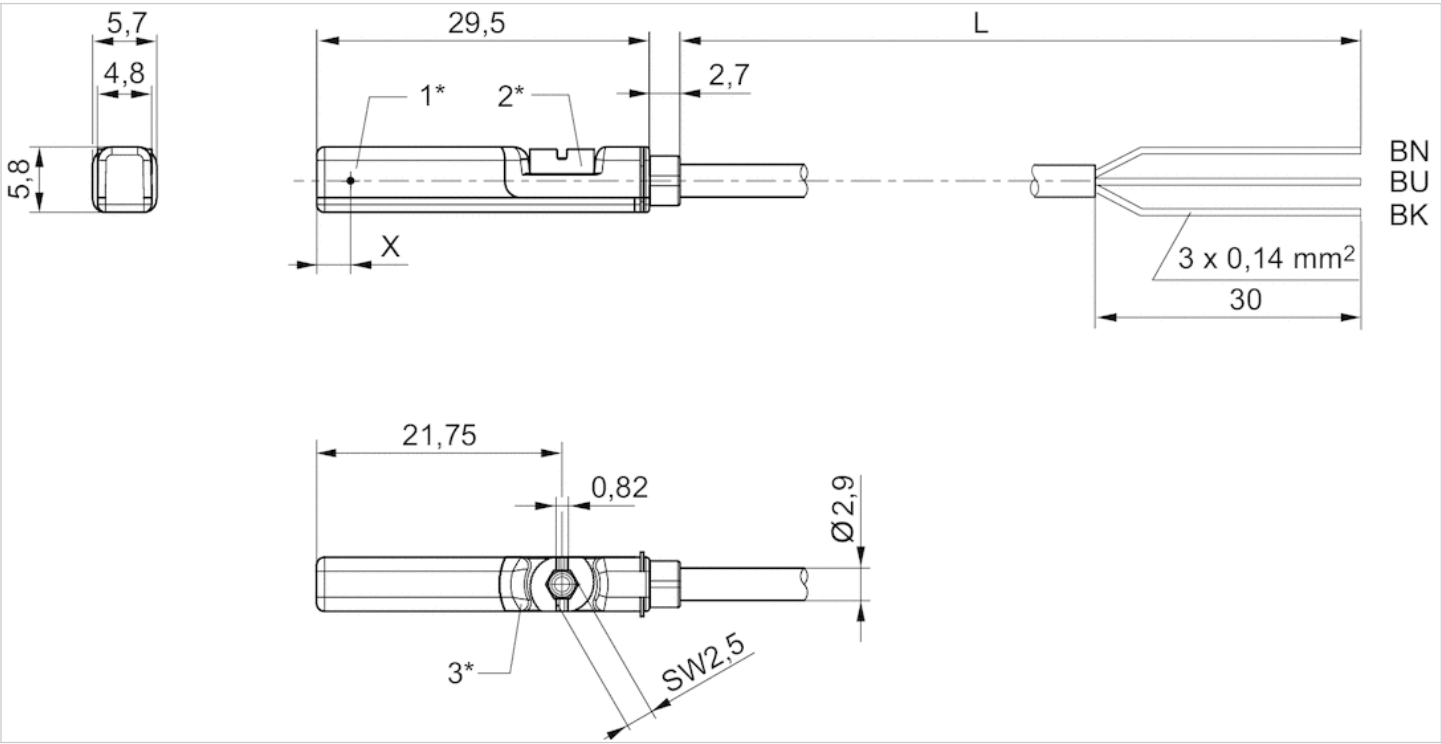
Part No.	Version
R412022856	short circuit resistant Protected against polarity reversal

Technical information

Material	
Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel

Dimensions

Fig. 2



1* = switching point 2* = locking screw 3* = LED window, transparent
L = cable length
BN = brown, BK = black, BU = blue
X = electronic: 11.6 mm

Sensor, Series ST6

- 6 mm T-slot
- with cable
- open cable ends, 2-pin open cable ends, 3-pin
- UL certification
- Reed electronic PNP electronic NPN
- Direct mounting for series PRA, PRE, CCI, KPZ, SSI, GPC, CVI
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, RPC, ICS-D2, ICM, KHZ, TRR

Ambient temperature min./max.	-30 ... 80 °C
Protection class	IP65 IP67 IP69K
Switching point precision	±0,1 mT
Nominal current, actuated state	30 mA
Quiescent current (without load)	8 mA
Min./max. DC operating voltage	See table below
Min./max. AC operating voltage	See table below
Hysteresis	≥ 0,2 mT
Switching logic	NO (make contact)
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Cable length L	3 5 10 m

Technical data

Part No.		for	Type of contact
R412022866		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412027170		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412022869		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412022870		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412022871		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412022853		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP
R412022855		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP
R412022857		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP
R412022849		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic NPN
R412022850		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic NPN

Part No.	Cable length L	Min./max. DC operating voltage	Min./max. AC operating voltage
R412022866	3 m	10 ... 230 V DC	10 ... 230 V AC
R412027170	5 m	10 ... 230 V DC	10 ... 230 V AC
R412022869	3 m	10 ... 30 V DC	10 ... 30 V AC
R412022870	5 m	10 ... 30 V DC	10 ... 30 V AC
R412022871	10 m	10 ... 30 V DC	10 ... 30 V AC
R412022853	3 m	10 ... 30 V DC	-
R412022855	5 m	10 ... 30 V DC	-
R412022857	10 m	10 ... 30 V DC	-
R412022849	3 m	10 ... 30 V DC	-
R412022850	5 m	10 ... 30 V DC	-

Part No.	Voltage drop U at Imax	DC switching current, max.
R412022866	≤ 3,5 V	0.13 A
R412027170	≤ 3,5 V	0.13 A
R412022869	I*Rs	0.3 A
R412022870	≤ 0,1 V	0.3 A
R412022871	I*Rs	0.3 A
R412022853	≤ 2,5 V	0.13 A
R412022855	≤ 2,5 V	0.13 A
R412022857	≤ 2,5 V	0.13 A
R412022849	≤ 2,5 V	0.13 A
R412022850	≤ 2,5 V	0.13 A

Part No.	AC switching current, max.	Switching capacity
R412022866	0.13 A	Reed, 2-pin: max. 10 W
R412027170	0.13 A	Reed, 2-pin: max. 10 W
R412022869	0.5 A	Reed, 3-pin: max. 6 W
R412022870	0.5 A	Reed, 3-pin: max. 6 W
R412022871	0.5 A	Reed, 3-pin: max. 6 W

Part No.	AC switching current, max.	Switching capacity
R412022853	-	-
R412022855	-	-
R412022857	-	-
R412022849	-	-
R412022850	-	-

Part No.	Max. switching frequency	Operating current, not switched
R412022866	400 Hz	-
R412027170	400 Hz	-
R412022869	400 Hz	-
R412022870	400 Hz	-
R412022871	400 Hz	-
R412022853	1000 Hz	8 mA
R412022855	1000 Hz	8 mA
R412022857	1000 Hz	8 mA
R412022849	1000 Hz	8 mA
R412022850	1000 Hz	8 mA

Part No.	Operating current, switched
R412022866	-
R412027170	-
R412022869	-
R412022870	-
R412022871	-
R412022853	30 mA
R412022855	30 mA
R412022857	30 mA
R412022849	30 mA
R412022850	30 mA

Part No.	Version	Fig.	
R412022866	Protected against polarity reversal	Fig. 1	1)
R412027170	Protected against polarity reversal	Fig. 1	1)
R412022869	Protected against polarity reversal	Fig. 2	2)
R412022870	Protected against polarity reversal	Fig. 2	2)
R412022871	Protected against polarity reversal	Fig. 2	2)
R412022853	short circuit resistant Protected against polarity reversal	Fig. 2	3)
R412022855	short circuit resistant Protected against polarity reversal	Fig. 2	3)
R412022857	short circuit resistant Protected against polarity reversal	Fig. 2	3)
R412022849	short circuit resistant Protected against polarity reversal	Fig. 2	3)
R412022850	short circuit resistant Protected against polarity reversal	Fig. 2	3)

1) open cable ends, 2-pin, The product of operating voltage and continuous current must not exceed the maximum switching capacity.

2) open cable ends, 3-pin, The product of operating voltage and continuous current must not exceed the maximum switching capacity.

3) open cable ends, 3-pin

Technical information

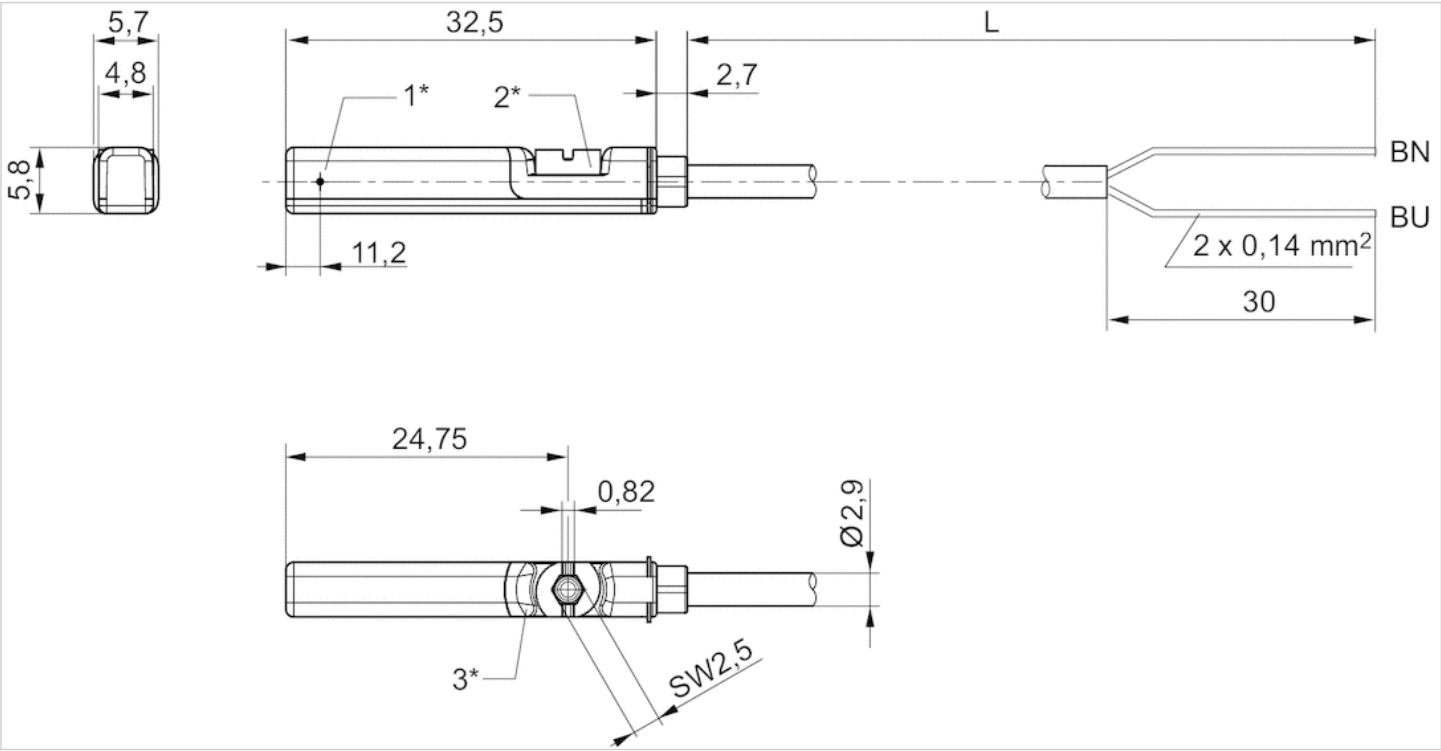
No cULus certification for 230 V variant.

Technical information

Material	
Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel

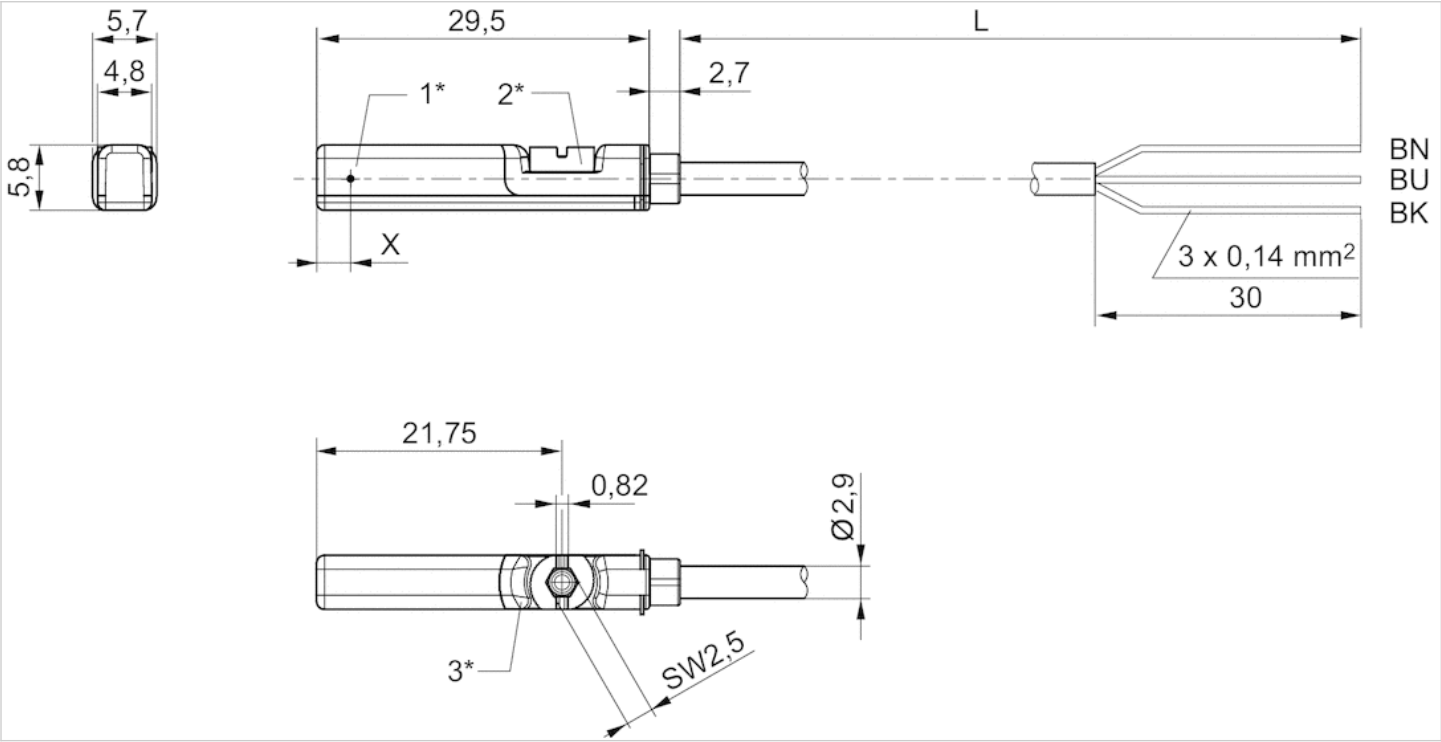
Dimensions

Fig. 1



1* = switching point 2* = locking screw 3* = LED window, transparent
L = cable length
BN=brown, BU=blue

Fig. 2



1* = switching point 2* = locking screw 3* = LED window, transparent
L = cable length
BN = brown, BK = black, BU = blue
X = electronic: 11.6 mm

Sensor, Series ST6

- 6 mm T-slot
- with cable
- Plug, M8, 3-pin Plug, M8, 2-pin
- UL certification
- Reed electronic PNP electronic NPN
- Direct mounting for series PRA, PRE, CCI, KPZ, SSI, GPC, CVI
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, RPC, ICS-D2, ICM, KHZ, TRR

Certificates	CE declaration of conformity cULus RoHS
Ambient temperature min./max.	-30 ... 80 °C
Protection class	IP65 IP67
Switching point precision	±0,1 mT
Nominal current, actuated state	30 mA
Quiescent current (without load)	8 mA
Min./max. DC operating voltage	10 ... 30 V DC
Min./max. AC operating voltage	See table below
Hysteresis	≥ 0,2 mT
Switching logic	NO (make contact)
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Cable length L	0.3 m

Technical data

Part No.		for	Type of contact
R412022868		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412027172		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412022872		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412022858		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP
R412022851		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic NPN

Part No.	Cable length L	Min./max. AC operating voltage	Voltage drop U at Imax
R412022868	0.3 m	10 ... 30 V AC	≤ 3,5 V
R412027172	0.3 m	10 ... 30 V AC	≤ 3,5 V
R412022872	0.3 m	10 ... 30 V AC	≤ 0,1 V
R412022858	0.3 m	-	≤ 2,5 V
R412022851	0.3 m	-	≤ 2,5 V

Part No.	DC switching current, max.	AC switching current, max.
R412022868	0.13 A	0.13 A
R412027172	0.13 A	0.13 A
R412022872	0.3 A	0.5 A
R412022858	0.13 A	-

Part No.	DC switching current, max.	AC switching current, max.
R412022851	0.13 A	-

Part No.	Switching capacity	Max. switching frequency
R412022868	Reed, 2-pin: max. 10 W	400 Hz
R412027172	Reed, 2-pin: max. 10 W	400 Hz
R412022872	Reed, 3-pin: max. 6 W	400 Hz
R412022858	-	1000 Hz
R412022851	-	1000 Hz

Part No.	Operating current, not switched	Operating current, switched
R412022868	-	-
R412027172	-	-
R412022872	-	-
R412022858	8 mA	30 mA
R412022851	8 mA	30 mA

Part No.	Version	
R412022868	Protected against polarity reversal	1)
R412027172	Protected against polarity reversal	1)
R412022872	Protected against polarity reversal	1)
R412022858	short circuit resistant Protected against polarity reversal	-
R412022851	short circuit resistant Protected against polarity reversal	-

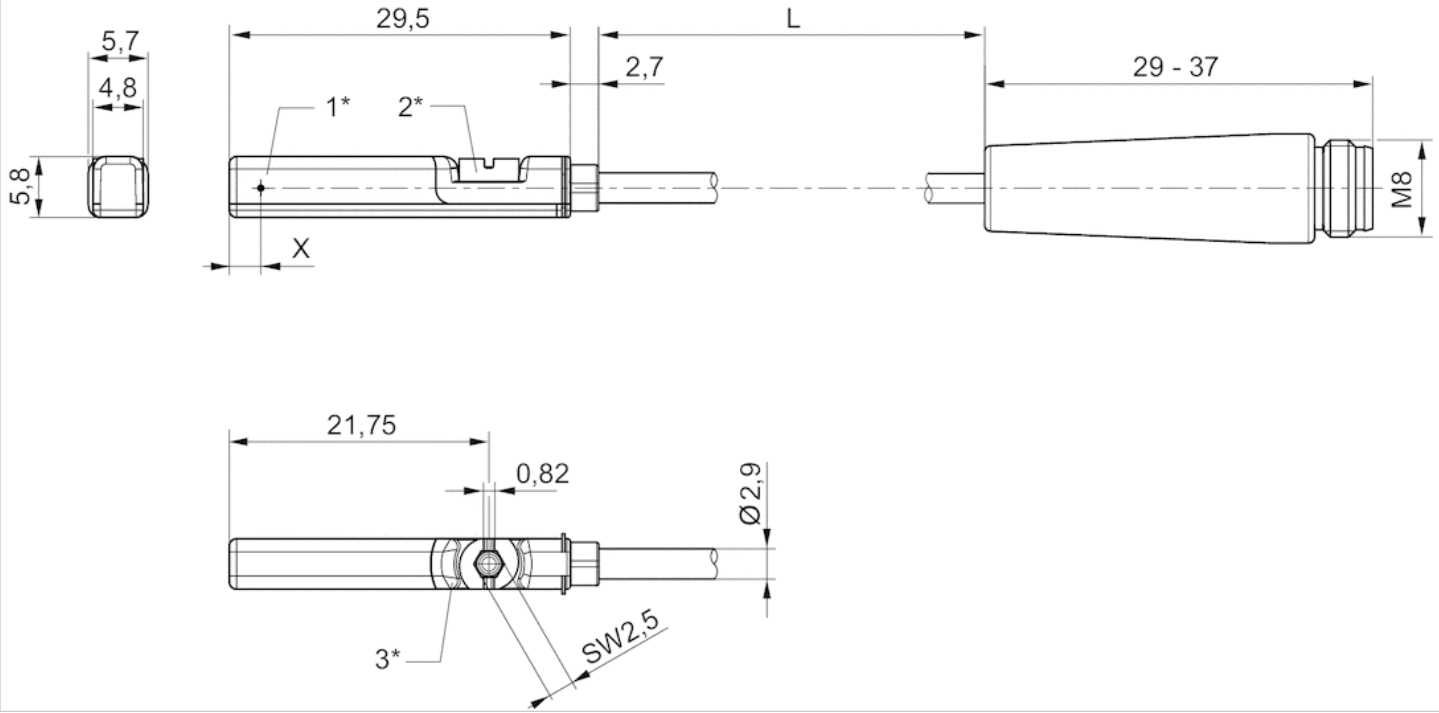
1) The product of operating voltage and continuous current must not exceed the maximum switching capacity.

Technical information

Material	
Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel

Dimensions

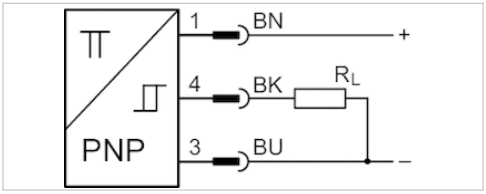
Dimensions



1* = switching point 2* = locking screw 3* = LED window, transparent
L = cable length
X = electronic: 11,6 mm, Reed: 8,3 mm

Sensor, Series ST6

- 6 mm T-slot
- with cable
- Plug, M12, 3-pin, with knurled screw
- ATEX
- UL certification, ATEX
- electronic PNP
- Direct mounting for series PRA, PRE, CCI, KPZ, SSI, GPC, CVI
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, RPC, ICS-D2, ICM, KHZ, TRR



Certificates	ATEX CE declaration of conformity cULus RoHS
ATEX class G	II 3G Ex nA IIC T4 Gc X
ATEX class D	II 3D Ex tc IIIC T135°C Dc X
Ambient temperature min./max.	-20 ... 50 °C
Protection class	IP67
Switching point precision	±0,1 mT
Quiescent current (without load)	10 mA
Min./max. DC operating voltage	10 ... 30 V DC
Switching logic	NO (make contact)
LED status display	Yellow Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Cable length L	0.3 m

Technical data

Part No.	for	Type of contact	Cable length L
R412022864	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP	0.3 m

Part No.	Voltage drop U at Imax	DC switching current, max.
R412022864	≤ 2,5 V	0.1 A

Part No.	Max. switching frequency
R412022864	1000 Hz

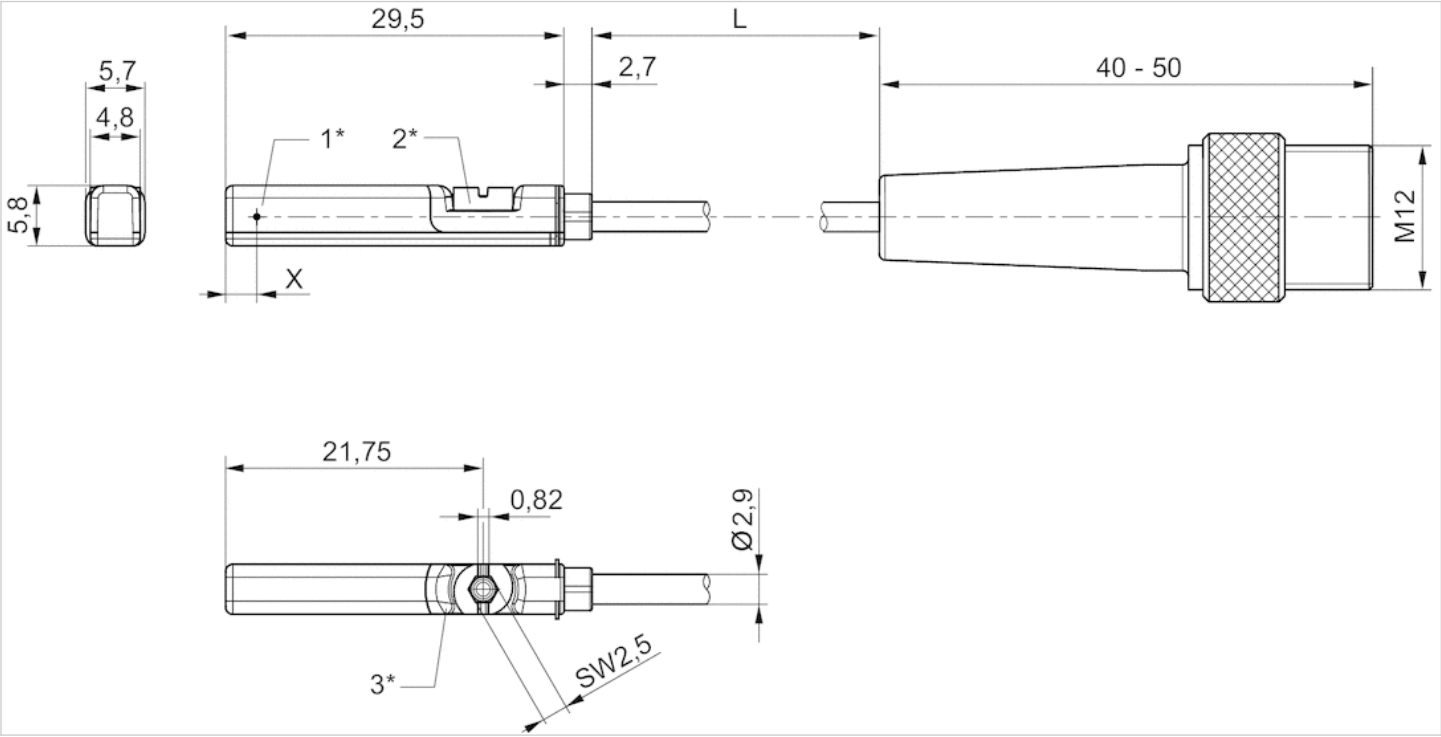
Part No.	Version
R412022864	short circuit resistant Protected against polarity reversal

Technical information

Material	
Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel

Dimensions

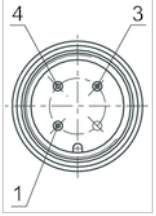
Dimensions



1* = switching point 2* = locking screw 3* = LED window, transparent
L = cable length
X = PNP: 11,6 mm, reed: 8,3 mm

Pin assignments

Pin assignments



Pin	1	3	4
Allocation	(+)	(-)	(OUT)

Sensor, Series ST6

- 6 mm T-slot
- with cable
- Plug, M12, 2-pin, with knurled screw Plug, M12, 4-pin, with knurled screw
- UL certification
- Reed electronic PNP
- Direct mounting for series PRA, PRE, CCI, KPZ, SSI, GPC, CVI
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, RPC, ICS-D2, ICM, KHZ, TRR

Certificates	CE declaration of conformity cULus RoHS
Ambient temperature min./max.	-30 ... 80 °C
Protection class	See table below
Switching point precision	±0,1 mT
Nominal current, actuated state	30 mA
Quiescent current (without load)	8 mA
Min./max. DC operating voltage	10 ... 30 V DC
Min./max. AC operating voltage	See table below
Hysteresis	≥ 0,2 mT
Switching logic	NO (make contact)
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Cable length L	0.3 0.1 3 5 m

Technical data

Part No.		for	Type of contact
R412027171		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412022876		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412022879		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP
R412022863		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP
R412022877		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP
R412022878		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP

Part No.	Cable length L	Min./max. AC operating voltage	Voltage drop U at Imax
R412027171	0.3 m	10 ... 30 V AC	≤ 3,5 V
R412022876	0.3 m	10 ... 30 V AC	≤ 0,1 V
R412022879	0.1 m	-	≤ 2,5 V
R412022863	0.3 m	-	≤ 2,5 V
R412022877	3 m	-	≤ 2,5 V
R412022878	5 m	-	≤ 2,5 V

Part No.	DC switching current, max.	AC switching current, max.
R412027171	0.13 A	0.13 A
R412022876	0.3 A	0.5 A

Part No.	DC switching current, max.	AC switching current, max.
R412022879	0.13 A	-
R412022863	0.13 A	-
R412022877	0.13 A	-
R412022878	0.13 A	-

Part No.	Switching capacity	Max. switching frequency
R412027171	Reed, 2-pin: max. 10 W	400 Hz
R412022876	Reed, 3-pin: max. 6 W	400 Hz
R412022879	-	1000 Hz
R412022863	-	1000 Hz
R412022877	-	1000 Hz
R412022878	-	1000 Hz

Part No.	Operating current, not switched	Operating current, switched	Protection class
R412027171	-	-	IP65 IP67
R412022876	-	-	IP65 IP67
R412022879	8 mA	30 mA	IP65 IP67
R412022863	8 mA	30 mA	IP65 IP67 IP69K
R412022877	8 mA	30 mA	IP65 IP67
R412022878	8 mA	30 mA	IP65 IP67

Part No.	Version	
R412027171	Protected against polarity reversal	1)
R412022876	Protected against polarity reversal	1)
R412022879	short circuit resistant Protected against polarity reversal	-
R412022863	short circuit resistant Protected against polarity reversal	-
R412022877	short circuit resistant Protected against polarity reversal	-
R412022878	short circuit resistant Protected against polarity reversal	-

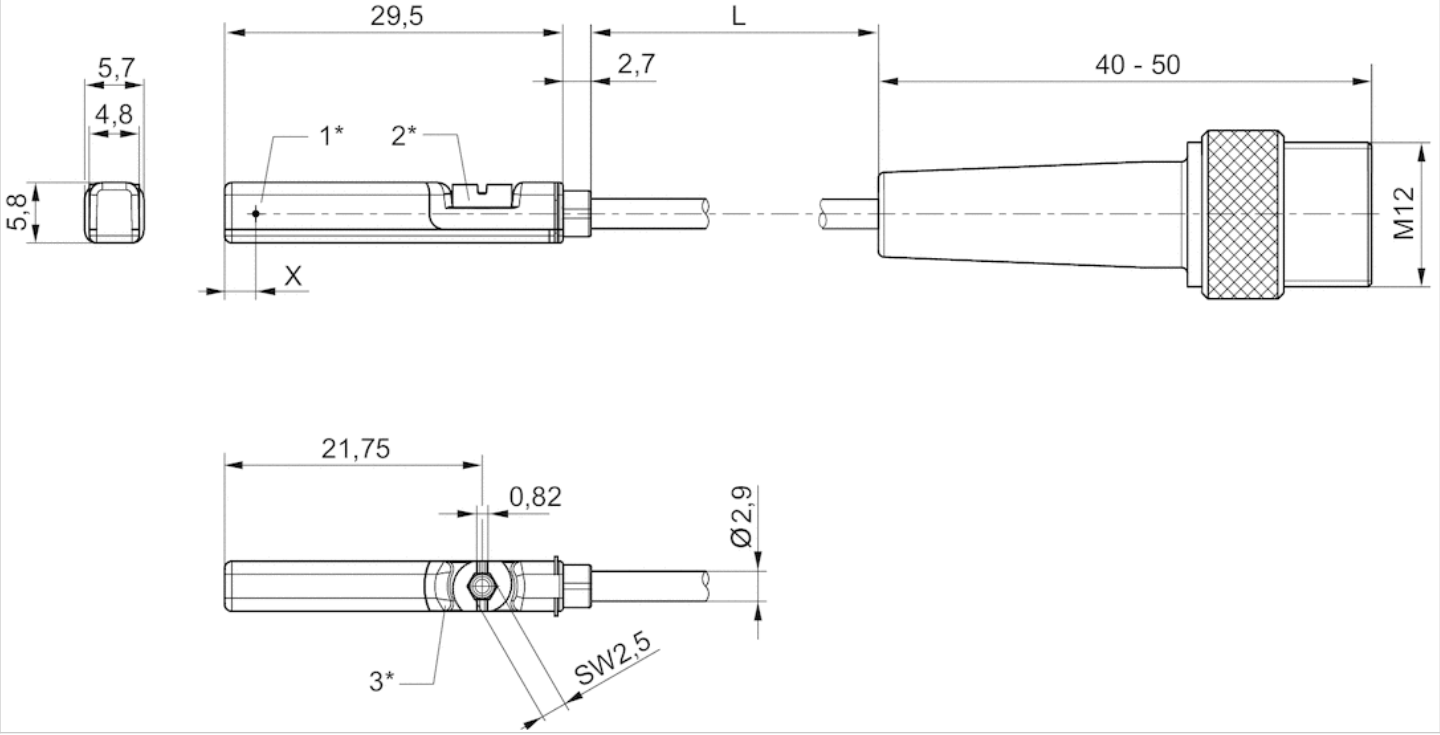
1) The product of operating voltage and continuous current must not exceed the maximum switching capacity.

Technical information

Material	
Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel

Dimensions

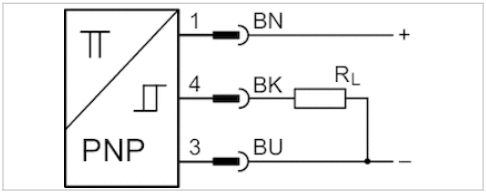
Dimensions



1* = switching point 2* = locking screw 3* = LED window, transparent
L = cable length
X = PNP: 11,6 mm, reed: 8,3 mm

Sensor, Series ST6

- 6 mm T-slot
- with cable
- Plug, M8, 3-pin, with knurled screw
- ATEX
- UL certification, ATEX
- electronic PNP
- Direct mounting for series PRA, PRE, CCI, KPZ, SSI, GPC, CVI
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, RPC, ICS-D2, ICM, KHZ, TRR



Certificates	ATEX CE declaration of conformity cULus RoHS
ATEX class G	II 3G Ex nA IIC T4 Gc X
ATEX class D	II 3D Ex tc IIIC T135°C Dc X
Ambient temperature min./max.	-20 ... 50 °C
Protection class	IP65 IP67
Switching point precision	±0,1 mT
Quiescent current (without load)	10 mA
Min./max. DC operating voltage	10 ... 30 V DC
Switching logic	NO (make contact)
LED status display	Yellow Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Cable length L	0.3 m

Technical data

Part No.	for	Type of contact	Cable length L
R412022860	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP	0.3 m

Part No.	Voltage drop U at Imax	DC switching current, max.
R412022860	≤ 2,5 V	0.1 A

Part No.	Max. switching frequency
R412022860	1000 Hz

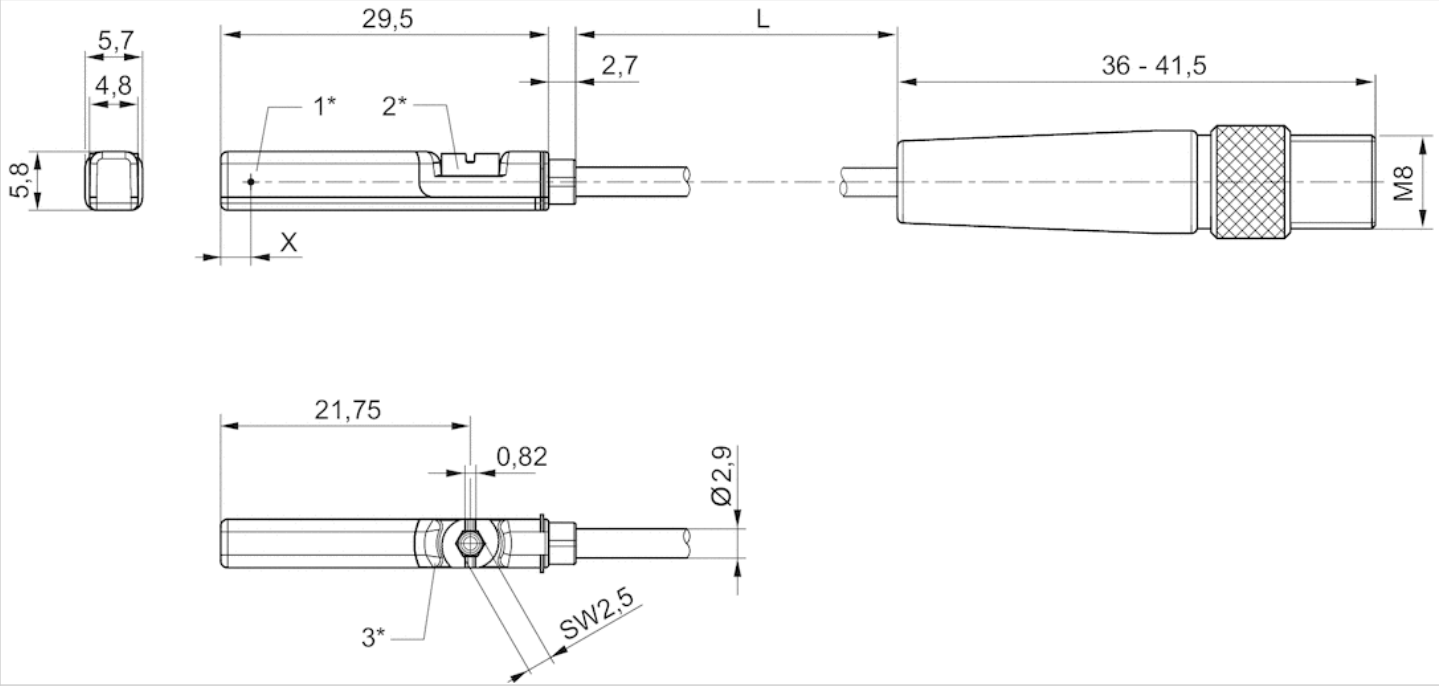
Part No.	Version
R412022860	short circuit resistant Protected against polarity reversal

Technical information

Material	
Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel

Dimensions

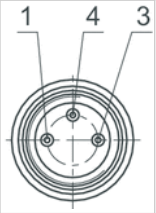
Dimensions



1* = switching point 2* = locking screw 3* = LED window, transparent
L = cable length
X = electronic: 11,6 mm, Reed: 8,3 mm

Pin assignments

Pin assignments



Pin	1	3	4
Allocation	(+)	(-)	(OUT)

Sensor, Series ST6

- 6 mm T-slot
- with cable
- Plug, M8, 3-pin, with knurled screw
- UL certification
- Reed electronic PNP electronic NPN
- Direct mounting for series PRA, PRE, CCI, KPZ, SSI, GPC, CVI
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, RPC, ICS-D2, ICM, KHZ, TRR

Certificates	CE declaration of conformity cULus RoHS
Ambient temperature min./max.	-30 ... 80 °C
Protection class	IP65 IP67
Switching point precision	±0,1 mT
Nominal current, actuated state	30 mA
Quiescent current (without load)	8 mA
Min./max. DC operating voltage	10 ... 30 V DC
Min./max. AC operating voltage	See table below
Hysteresis	≥ 0,2 mT
Switching logic	NO (make contact)
Switching capacity	Reed, 3-pin: max. 6 W
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Cable length L	0.3 0.5 m

Technical data

Part No.		for	Type of contact
R412022873		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412022875		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412022874		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412022859		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP
R412022862		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP
R412022861		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP
R412022852		PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic NPN

Part No.	Cable sheath	Cable length L	Min./max. AC operating voltage
R412022873	Polyurethane	0.3 m	10 ... 30 V AC
R412022875	Polyvinyl chloride	0.3 m	10 ... 30 V AC
R412022874	Polyurethane	0.5 m	10 ... 30 V AC
R412022859	Polyurethane	0.3 m	-
R412022862	Polyvinyl chloride	0.3 m	-
R412022861	Polyurethane	0.5 m	-
R412022852	Polyurethane	0.3 m	-

Part No.	Voltage drop U at Imax	DC switching current, max.
R412022873	I*Rs	0.3 A
R412022875	I*Rs	0.3 A
R412022874	I*Rs	0.3 A
R412022859	≤ 2,5 V	0.13 A
R412022862	≤ 2,5 V	0.13 A
R412022861	≤ 2,5 V	0.13 A
R412022852	≤ 2,5 V	0.13 A

Part No.	AC switching current, max.	Max. switching frequency
R412022873	0.5 A	400 Hz
R412022875	0.5 A	400 Hz
R412022874	0.5 A	400 Hz
R412022859	-	1000 Hz
R412022862	-	1000 Hz
R412022861	-	1000 Hz
R412022852	-	1000 Hz

Part No.	Operating current, not switched	Operating current, switched
R412022873	-	-
R412022875	-	-
R412022874	-	-
R412022859	8 mA	30 mA
R412022862	8 mA	30 mA
R412022861	8 mA	30 mA
R412022852	8 mA	30 mA

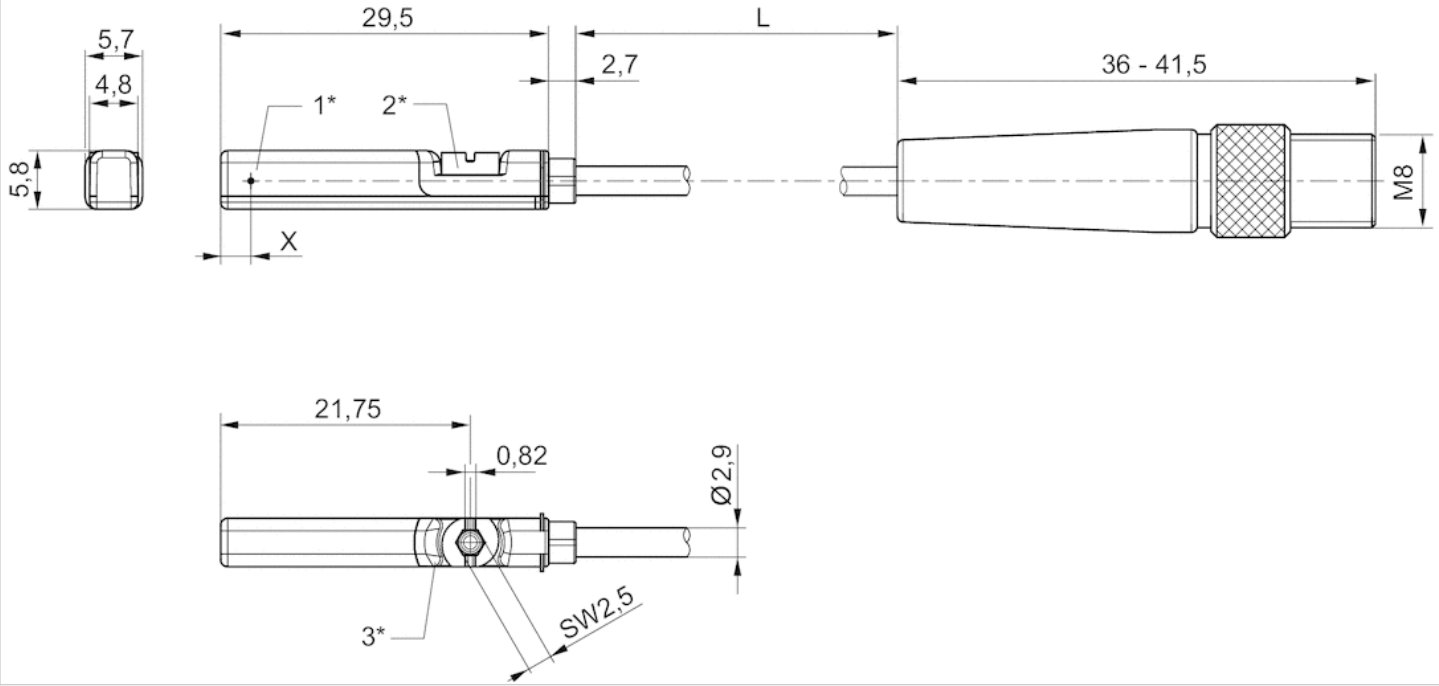
Part No.	Version
R412022873	Protected against polarity reversal
R412022875	Protected against polarity reversal
R412022874	Protected against polarity reversal
R412022859	short circuit resistant Protected against polarity reversal
R412022862	short circuit resistant Protected against polarity reversal
R412022861	short circuit resistant Protected against polarity reversal
R412022852	short circuit resistant Protected against polarity reversal

Technical information

Material	
Housing	Polyamide
Cable sheath	Polyurethane Polyvinyl chloride
Locking screw	Stainless steel

Dimensions

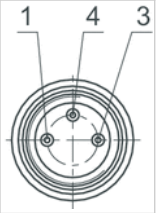
Dimensions



1* = switching point 2* = locking screw 3* = LED window, transparent
L = cable length
X = electronic: 11,6 mm, Reed: 8,3 mm

Pin assignments

Pin assignments



Pin	1	3	4
Allocation	(+)	(-)	(OUT)

Sensor mounting, Series CB1

- for series ST6
- to mount on cylinder CCL-IS

Weight 0.006 kg

Technical data

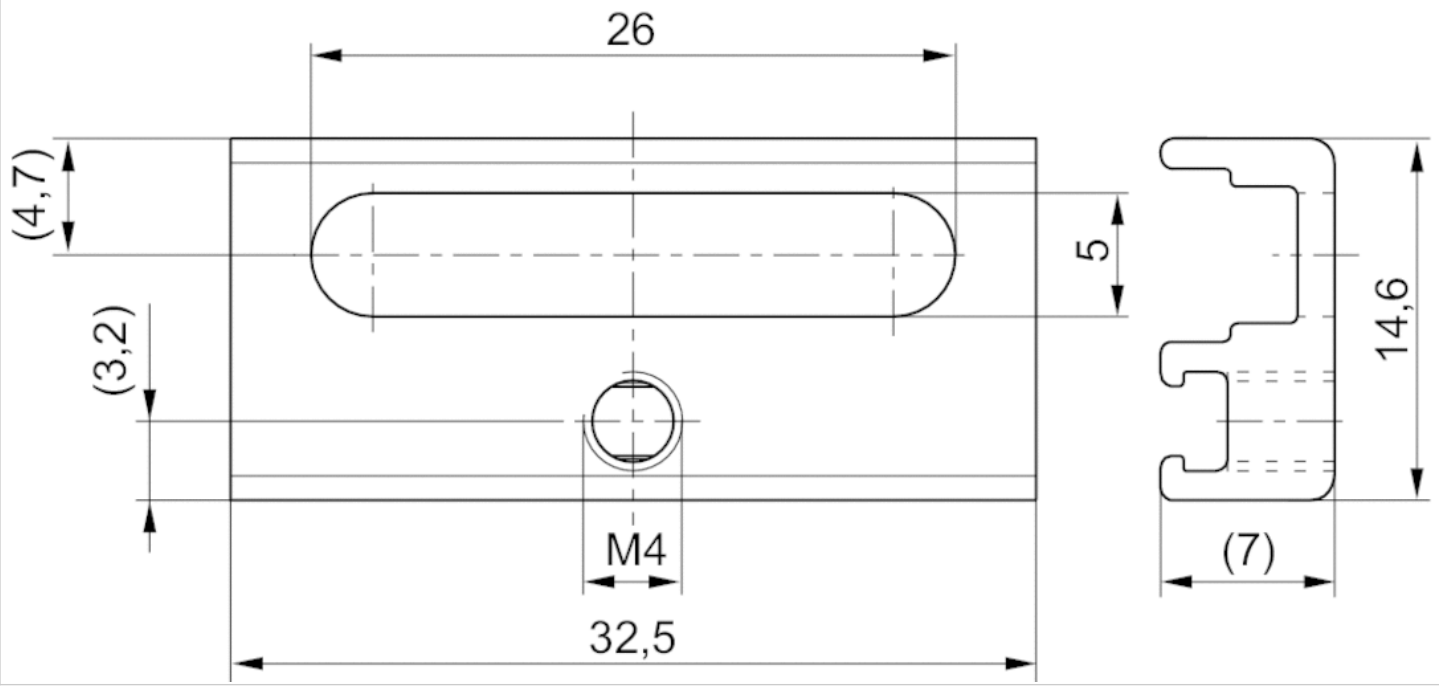
Part No.	for series
R402000040	ST6

Scope of delivery: incl. threaded pin

Technical information

Material	
	Aluminum

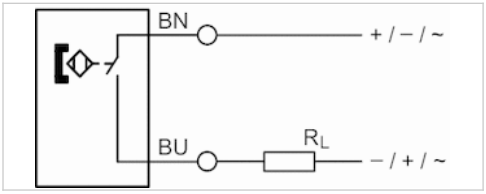
Dimensions



Sensor, Series ST6-HT

- 6 mm T-slot
- with cable
- open cable ends, 2-pin
- Heat resistant
- UL certification
- Reed
- Direct mounting for series PRA, PRE, CCI, KPZ
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, RPC

Certificates	CE declaration of conformity RoHS
Ambient temperature min./max.	-20 ... 120 °C
Protection class	IP65 IP67
Switching point precision	±0,1 mT
Min./max. DC operating voltage	0 ... 30 V DC
Min./max. AC operating voltage	0 ... 30 V AC
Switching logic	NO (make contact)
Switching capacity	Reed, 2-pin: max. 10 W
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Cable length L	3 10 m



Technical data

Part No.	for	Type of contact	Cable length L	Voltage drop U at Imax
R412022865	PRA, PRE, CCI, KPZ	Reed	3 m	≤ 3,5 V
R412022867	PRA, PRE, CCI, KPZ	Reed	10 m	≤ 3,5 V

Part No.	DC switching current, max.	AC switching current, max.
R412022865	0.13 A	0.13 A
R412022867	0.13 A	0.13 A

Part No.	Max. switching frequency	Version
R412022865	400 Hz	Protected against polarity reversal
R412022867	400 Hz	Protected against polarity reversal

Part No.	Temperature resistance
R412022865	Heat resistant

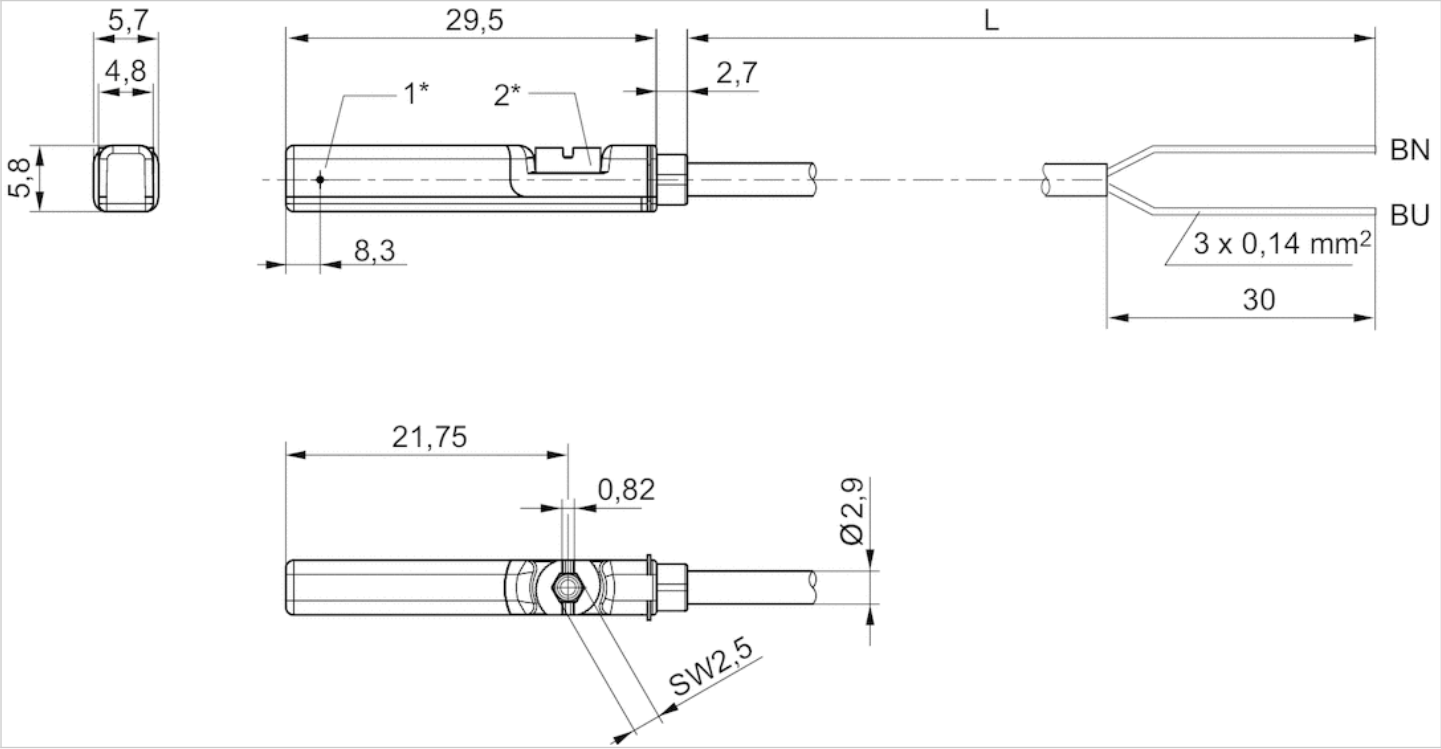
Part No.	Temperature resistance
R412022867	Heat resistant

Technical information

Material	
Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel

Dimensions

Dimensions

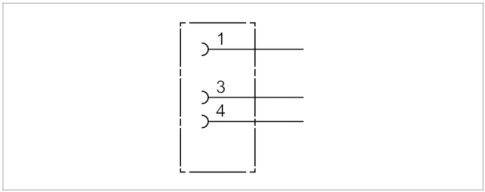


1* = switching point 2* = locking screw
L = cable length
BN=brown, BU=blue

Round plug connector, Series CON-RD

- Socket, M8x1, 3-pin, A-coded, straight, 180°
- UL (Underwriters Laboratories)
- unshielded

Connection type	Soldering
Ambient temperature min./max.	-25 ... 80 °C
Operational voltage	48 V AC/DC
Protection class	IP67
Weight	0.009 kg



Technical data

Part No.	Max. current	suitable cable-Ø min./max
1834484173	4 A	3.5 / 5 mm

Technical information

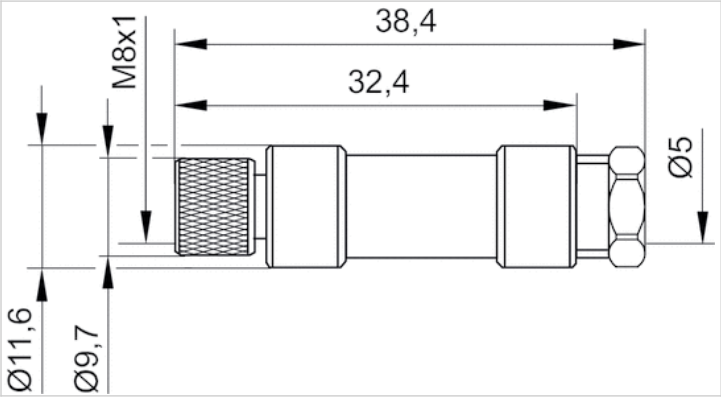
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyamide

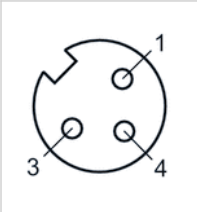
Dimensions

Dimensions



Pin assignments

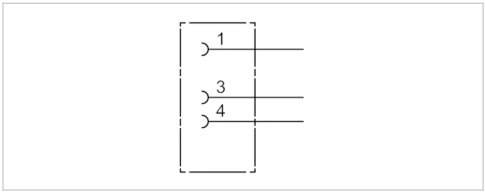
Pin assignment, socket



Round plug connector, Series CON-RD

- Socket, M8x1, 3-pin, A-coded, angled, 90°
- UL (Underwriters Laboratories)
- unshielded

Connection type	Soldering
Ambient temperature min./max.	-40 ... 85 °C
Operational voltage	48 V AC/DC
Protection class	IP67
Weight	0.01 kg



Technical data

Part No.	Max. current	Contact assignment	suitable cable-Ø min./max
1834484174	4 A	3	3.5 / 5 mm

Technical information

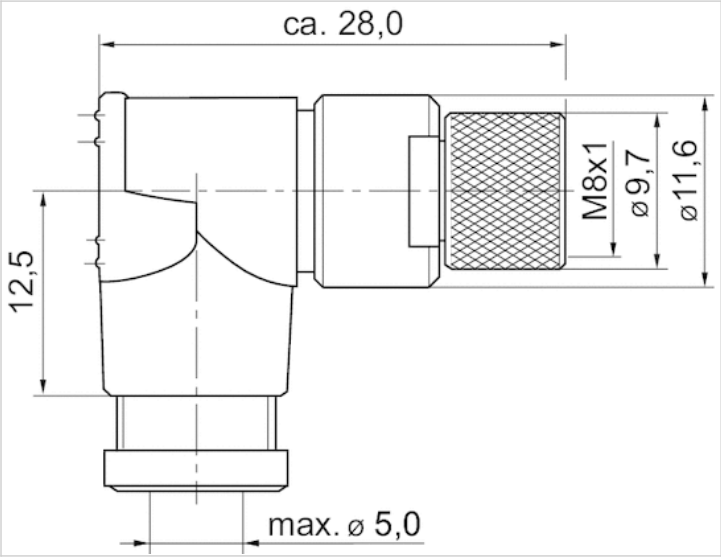
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyamide

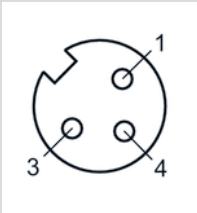
Dimensions

Dimensions



Pin assignments

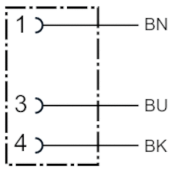
Pin assignment, socket



Round plug connector, Series CON-RD

- Socket M8x1 3-pin A-coded straight 180°
- open cable ends
- with cable
- UL (Underwriters Laboratories)
- unshielded

Ambient temperature min./max.	-25 ... 85 °C
Operational voltage	48 V AC/DC
Protection class	IP67
Wire cross-section	0.24 mm²
Weight	See table below



Technical data

Part No.	Max. current	Number of wires	Cable-Ø	Cable length	Certification	Weight
1834484166	4 A	3	4.5 mm	3 m	UL (Underwriters Laboratories)	0.087 kg
1834484168	4 A	3	4.5 mm	5 m	UL (Underwriters Laboratories)	0.141 kg
1834484247	4 A	3	4.5 mm	10 m	UL (Underwriters Laboratories)	0.277 kg

Technical information

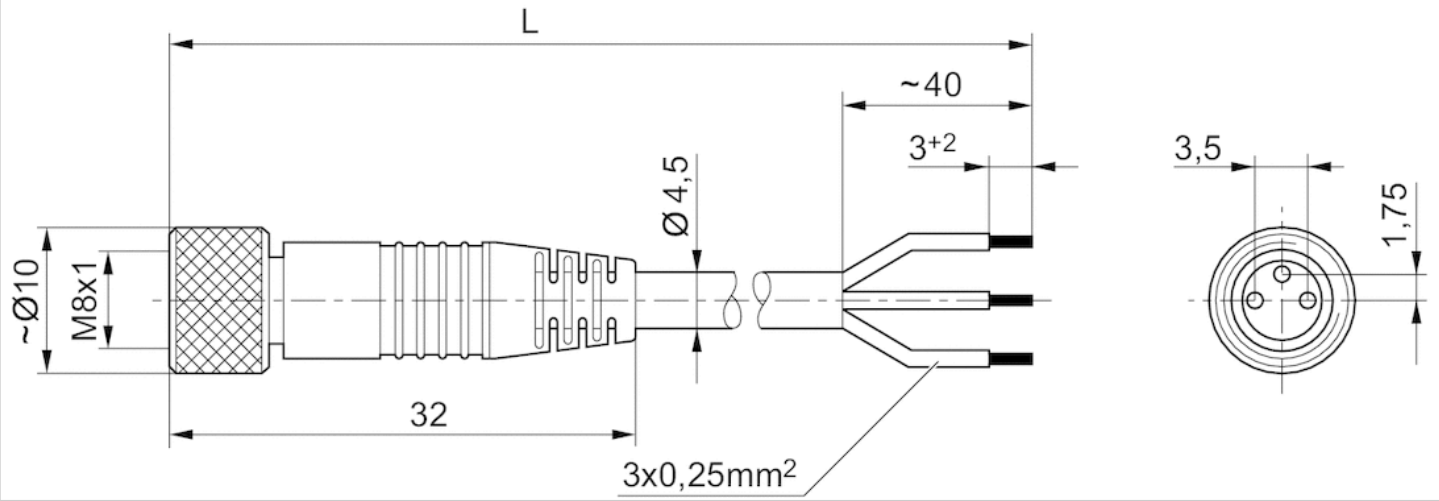
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyurethane
Cable sheath	Polyurethane

Dimensions

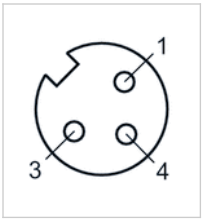
Dimensions



L = length

Pin assignments

Pin assignment, socket

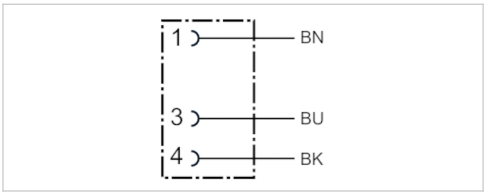


(1) BN=brown
(3) BU=blue
(4) BK=black

Round plug connector, Series CON-RD

- Socket M8x1 3-pin A-coded angled 90°
- open cable ends
- with cable
- unshielded

Ambient temperature min./max.	-40 ... 85 °C
Operational voltage	48 V AC/DC
Protection class	IP67
Wire cross-section	0.24 mm²
Weight	See table below



Technical data

Part No.	Max. current	Number of wires	Cable-Ø	Cable length	Weight
1834484167	4 A	3	4.5 mm	3 m	0.087 kg
1834484169	4 A	3	4.5 mm	5 m	0.139 kg
1834484248	4 A	3	4.5 mm	10 m	0.279 kg

Technical information

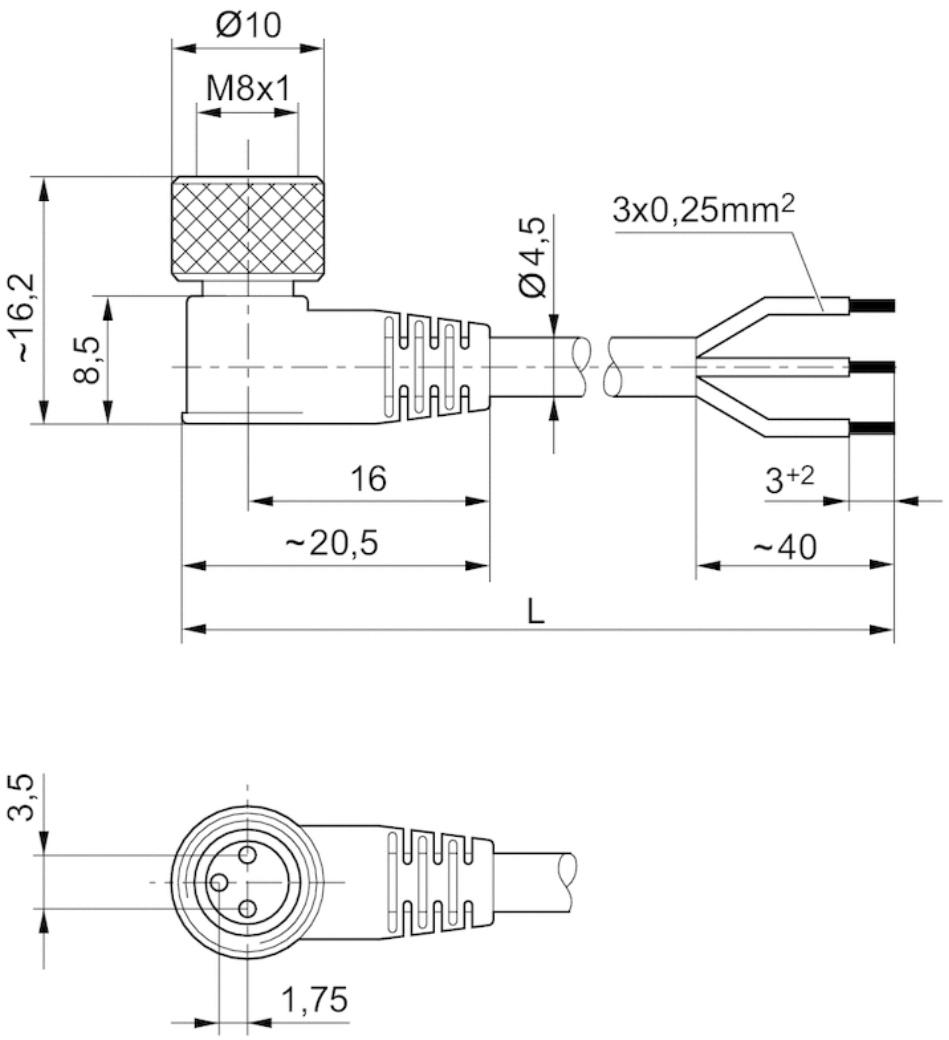
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyurethane
Cable sheath	Polyurethane

Dimensions

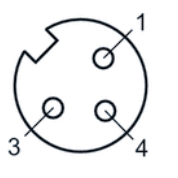
Dimensions



L = length

Pin assignments

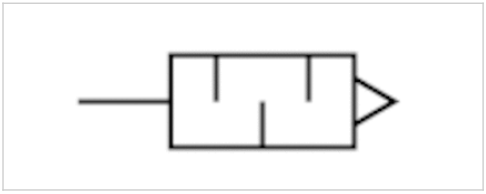
Pin assignment, socket



(1) BN=brown
(3) BU=blue
(4) BK=black

Silencers, series SI1

- M5 G 1/8
- Stainless steel



Working pressure min./max.	0 ... 12 bar
Ambient temperature min./max.	-20 ... 150 °C
Medium	Compressed air
Sound pressure level	See table below
Weight	See table below
Comment	Flow characteristic curves can be found under “Diagrams”.

Technical data

Part No.	Compressed air connection	Sound pressure level	Flow	Delivery unit	Weight	
			Qn			
R412010686	M5	68 dB	-	10 piece	0.006 kg	-
R412010687	G 1/8	73 dB	1218 l/min	10 piece	0.01 kg	1)

Weight per piece

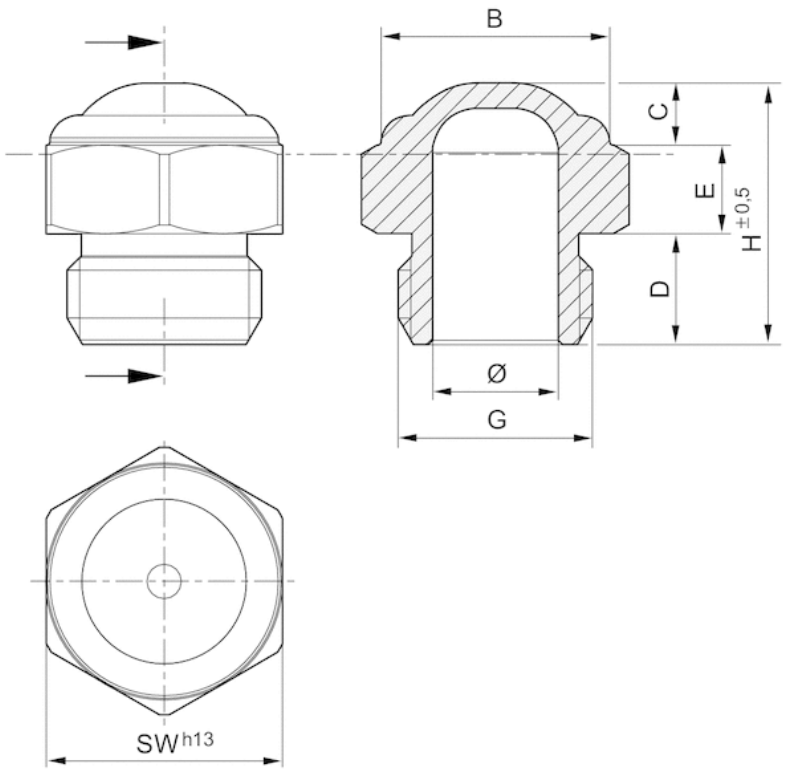
1) Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

Material	
Silencer	Stainless steel
Thread	Stainless steel

Dimensions

Dimensions

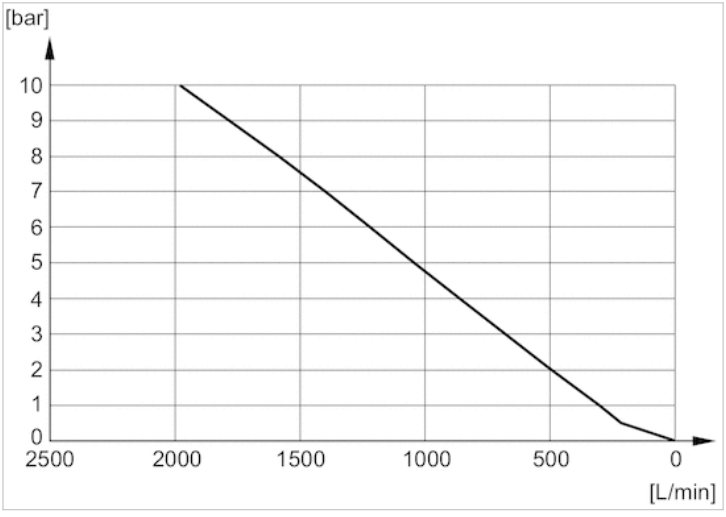


Dimensions

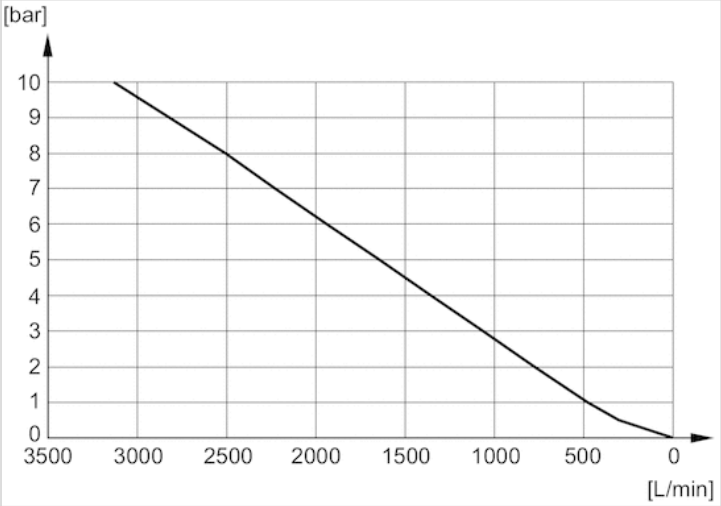
Part No.	Port G	Ø	B	D	E	H	SW
R412010686	M5	2.5	6.5	4	3	8	8
R412010687	G 1/8	6	11	6	4	15	13

Diagrams

Flow diagram, R412010687

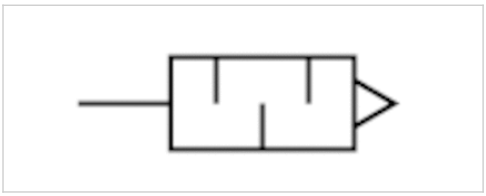


Flow diagram, R412007817



Silencers, series SI1

- M5 G 1/8
- Stainless steel



Working pressure min./max.	0 ... 12 bar
Ambient temperature min./max.	-20 ... 150 °C
Medium	Compressed air
Sound pressure level	See table below
Weight	See table below
Comment	Flow characteristic curves can be found under “Diagrams”.

Technical data

Part No.	Compressed air connection	Sound pressure level	Flow	Delivery unit	Weight
			Qn		
R412010090	M5	85 dB	73 l/min	1 piece	0.003 kg
R412010081	G 1/8	90 dB	1312 l/min	1 piece	0.011 kg

Weight per piece

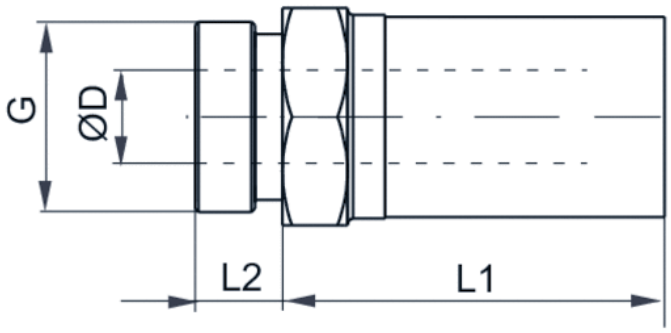
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

Material	
Silencer	Stainless steel
Thread	Stainless steel

Dimensions

Dimensions

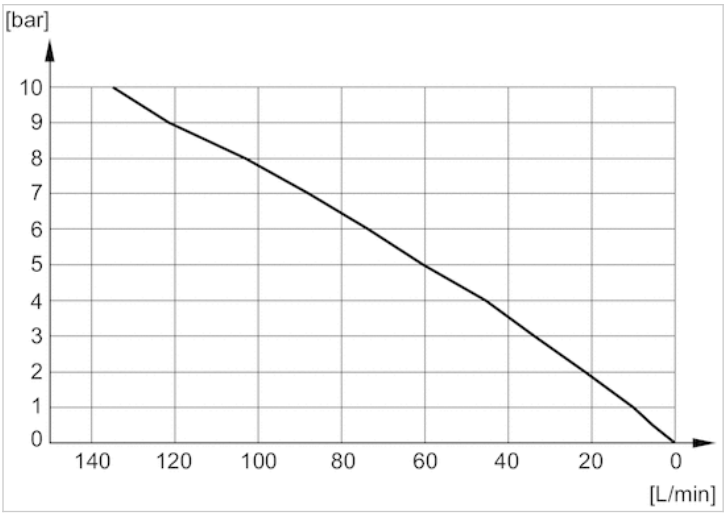


Dimensions

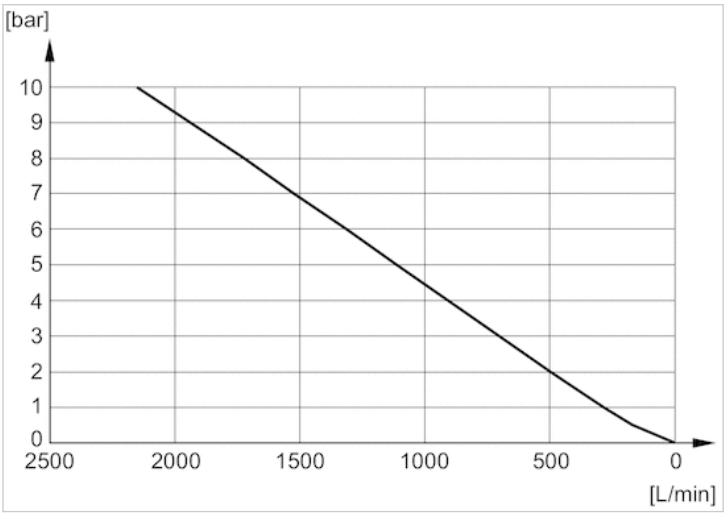
Part No.	Port G	SW	Ø D	L1	L2
R412010090	M5	8	3.1	10.5	3.5
R412010081	G 1/8	13	6.6	20	6

Diagrams

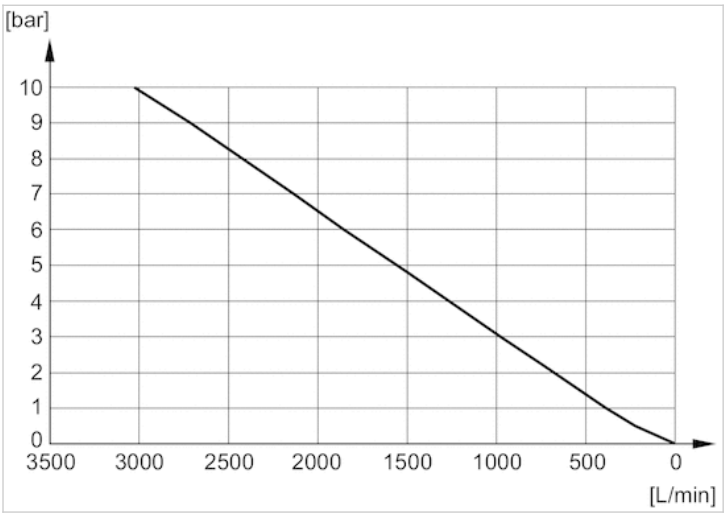
Flow diagram, R412010090



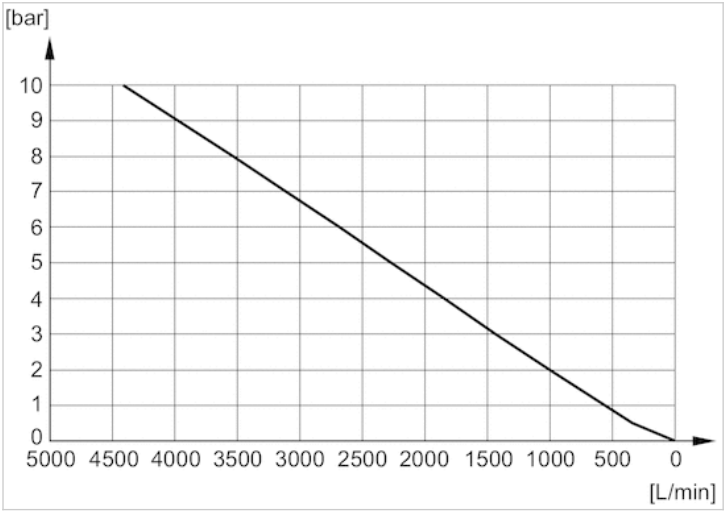
Flow diagram, R412010081



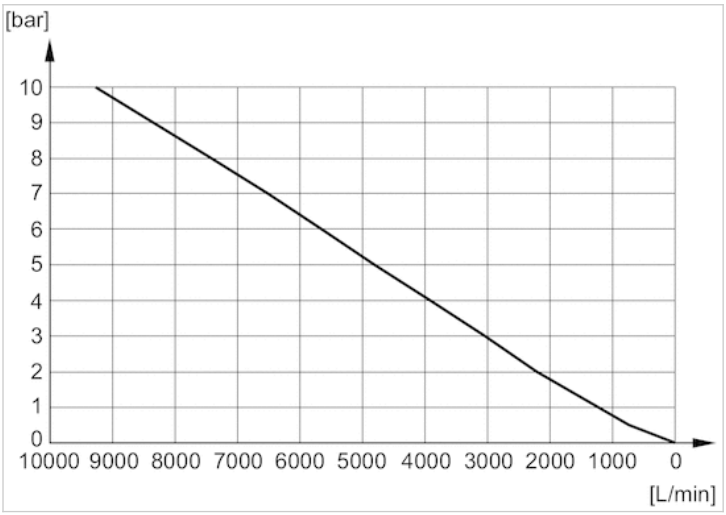
Flow diagram, R412010082



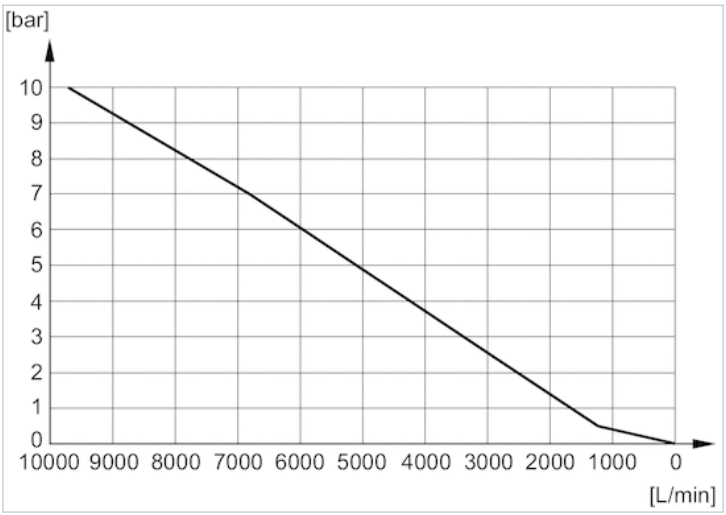
Flow diagram, R412010083



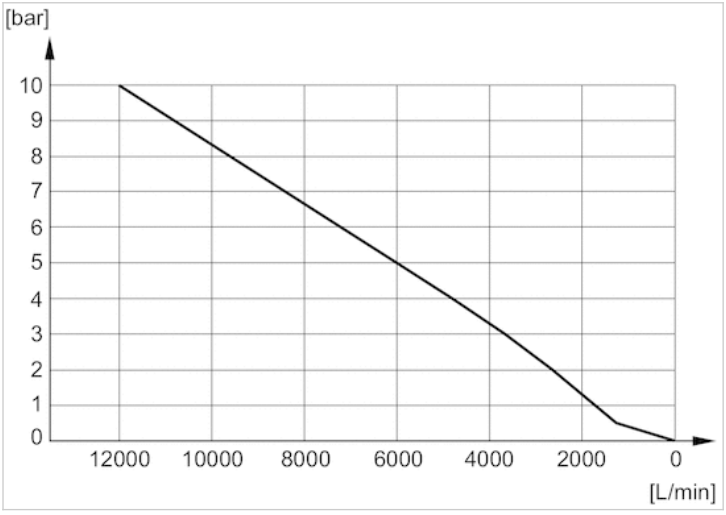
Flow diagram, R412010084



Flow diagram, R412010085



Flow diagram, R412010086



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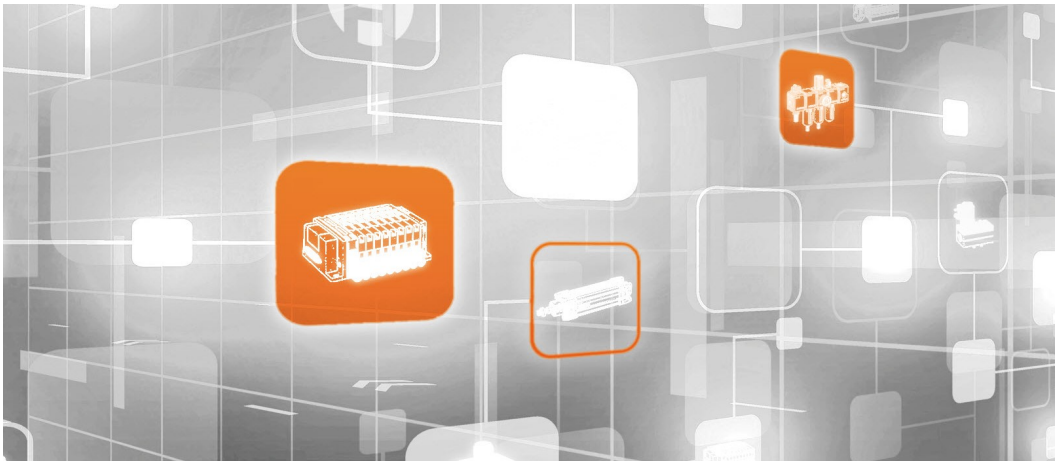

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