Electric Drives and Controls | Hydraulics | Linear Motion and Assembly Technologies | Pneumatics | Service

Rexroth
Bosch Group

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Piston rod cylinders → Standard cylinders

ISO 15552, Series PRA

Brochure

Piston rod cylinders → Standard cylinders

ISO 15552, Series PRA

Accessories

accessories overview

Cylinder mountings

Piston rod cylinders → Standard cylinders

ISO 15552, Series PRA

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information

Piston rod cylinders → Standard cylinders

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Piston rod cylinders → Standard cylinders

ISO 15552, Series PRA

	Sensor, Series ST8 ► 8 mm groove ► with cable ► without wire end ferrule, tin-plated	**72**
	Sensor, Series ST8 ► 8 mm groove ► with cable ► Plug, M8, 3-pin	**73**
	Sensor, Series ST8 ► 8 mm groove ► with cable ► Plug, M12, 3-pin, with knurled screw	**75**
	Sensor, Series SN3 ► Plug, M12, 3-pin ► welding-proof	**76**
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Profile cylinder, ISO 15552, Series PRA

► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable, elastic ► piston rod: external thread ► ATEX optional

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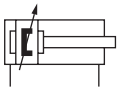


a15

Standards	ISO 15552
Compressed air connection	internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20 °C / +80 °C
Medium temperature min./max.	-20 °C / +80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Die-cast aluminum
End cover	Die-cast aluminum
Seal	Polyurethane
Nut for piston rod	Steel, galvanized
Scraper	Polyurethane

Technical Remarks

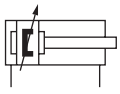
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- ATEX-certified cylinders can be generated in the Internet configurator.
- ATEX ID II 2G2D c T4 T135 °C -20 °C ≤Ta ≤60 °C
- For ATEX-certified cylinders, the temperature range specified in the header does not apply. See the ATEX ID.

Piston Ø		**[mm]**	**32**	**40**	**50**	**63**	**80**
Retracting piston force		[N]	435	660	1035	1765	2855
Extending piston force		[N]	505	790	1235	1960	3165
Cushioning length		[mm]	11.5	15	17	16.5	19.5
Cushioning energy		[J]	4.8	9	15	27	54
Weight	0 mm stroke	[kg]	0.5	0.65	1.06	1.42	2.37
	+10 mm stroke	[kg]	0.022	0.032	0.047	0.054	0.085
Stroke max.		[mm]	1600	1900	2100	2500	2800

Piston Ø		**[mm]**	**100**	**125**			
Retracting piston force		[N]	4635	7220			
Extending piston force		[N]	4945	7725			
Cushioning length		[mm]	19.5	22			
Cushioning energy		[J]	88	140			
Weight	0 mm stroke	[kg]	3.51	6.72			
	+10 mm stroke	[kg]	0.1	0.15			
Stroke max.		[mm]	2800	2750			

Profile cylinder, ISO 15552, Series PRA

► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable, elastic ► piston rod: external thread ► ATEX optional

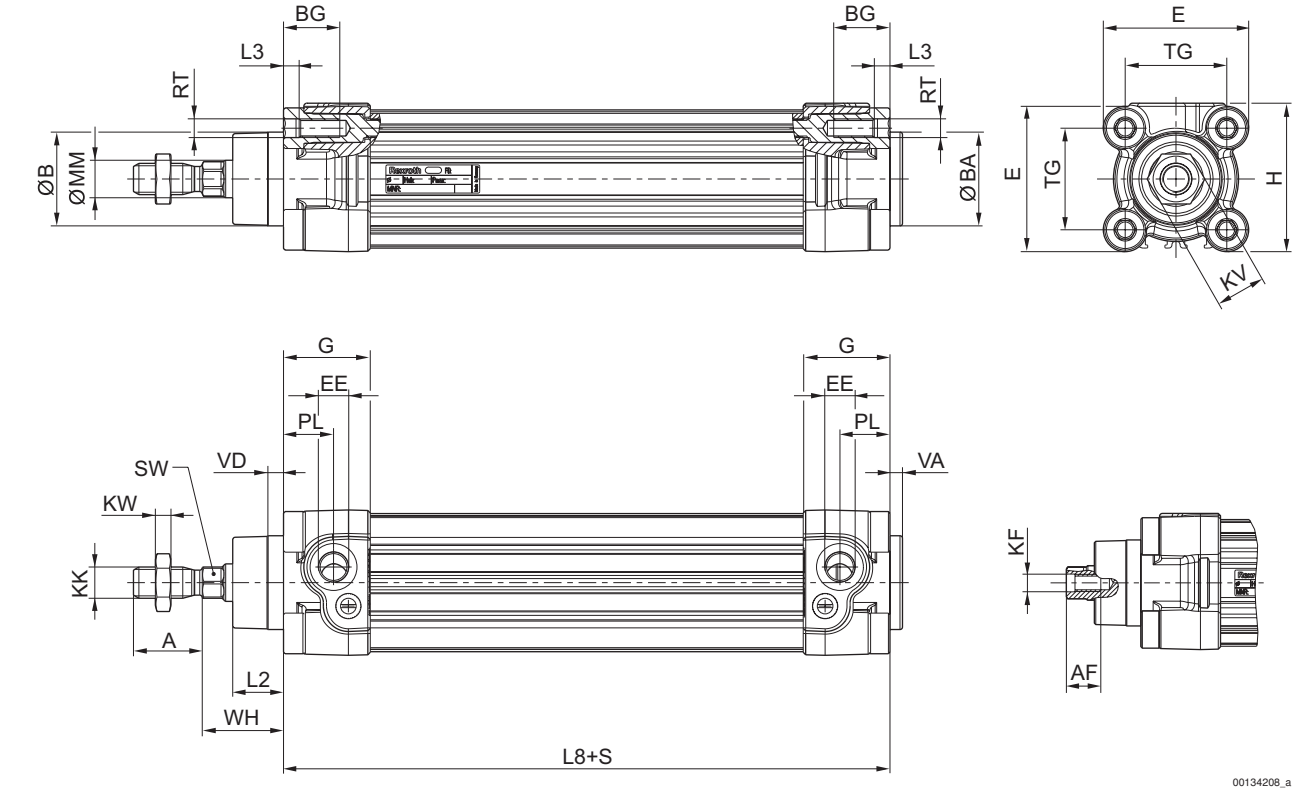
	Piston Ø Piston rod thread Ports Piston rod Ø	32 M10x1,25 G 1/8 12	40 M12x1,25 G 1/4 16	50 M16x1,5 G 1/4 20	63 M16x1,5 G 3/8 20	80 M20x1,5 G 3/8 25
	Stroke 25	**0822120001**	**0822121001**	**0822122001**	**0822123001**	**0822124001**
	50	**0822120002**	**0822121002**	**0822122002**	**0822123002**	**0822124002**
	80	**0822120003**	**0822121003**	**0822122003**	**0822123003**	**0822124003**
	100	**0822120004**	**0822121004**	**0822122004**	**0822123004**	**0822124004**
	125	**0822120005**	**0822121005**	**0822122005**	**0822123005**	**0822124005**
	160	**0822120006**	**0822121006**	**0822122006**	**0822123006**	**0822124006**
	200	**0822120007**	**0822121007**	**0822122007**	**0822123007**	**0822124007**
	250	**0822120008**	**0822121008**	**0822122008**	**0822123008**	**0822124008**
	320	**0822120009**	**0822121009**	**0822122009**	**0822123009**	**0822124009**
	400	**0822120010**	**0822121010**	**0822122010**	**0822123010**	**0822124010**
	500	**0822120011**	**0822121011**	**0822122011**	**0822123011**	**0822124011**
	**Piston Ø** **Piston rod thread** **Ports** **Piston rod Ø**	**100** **M20x1,5** **G 1/2** **25**	**125** **M27x2** **G 1/2** **32**			
	Stroke 25	**0822125001**	R480140491			
	50	**0822125002**	R480140455			
	80	**0822125003**	R480141371			
	100	**0822125004**	R480079499			
	125	**0822125005**	R480140083			
	160	**0822125006**	R480079809			
	200	**0822125007**	R480140833			
	250	**0822125008**	R480141106			
	320	**0822125009**	R480140759			
	400	**0822125010**	R480141373			
	500	**0822125011**	R480141666			

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Profile cylinder, ISO 15552, Series PRA

► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable, elastic ► piston rod: external thread ► ATEX optional

Dimensions



S = stroke

Piston Ø	A -2	AF+1	ØB d11	ØBA d11	BG min.	E	EE	G	H	KF	KK
32	22	12	30	30	16	46.5	G 1/8	27.75	47.5	M6	M10x1,25
40	24	13.5	35	35	16	53	G 1/4	33.25	53	M8	M12x1,25
50	32	17	40	40	16	65	G 1/4	31	65	M10	M16x1,5
63	32	17	45	45	16	75	G 3/8	38.25	75	M10	M16x1,5
80	40	21	45	45	17	95	G 3/8	38.25	95	M12	M20x1,5
100	40	21	55	55	17	115	G 1/2	42.25	115	M12	M20x1,5
125	54	28	60	60	20	140	G 1/2	53.85	140	M16	M27x2

Piston Ø	KV	KW	ØMM f8	PL	L2	L3 ±0,5	L8	RT	SW	TG	VA -1	VD
32	16	5	12	16	16.25	4.5	94±0,4	M6	10	32,5±0,5	4	5
40	18	6	16	20	18.25	4.5	105±0,7	M6	13	38±0,5	4	5
50	24	8	20	19	25	4.5	106±0,7	M8	17	46,5±0,6	4	5
63	24	8	20	24	25	4.5	121±0,8	M8	17	56,5±0,7	4	5
80	30	10	25	23.5	33	0	128±0,8	M10	22	72±0,7	4	5
100	30	10	25	25	36	0	138±1	M10	22	89±0,7	4	5
125	41	13.5	32	33	45	0	160±1	M12	27	110±1,1	6	7

Piston Ø	WH
32	26±1,4
40	30±1,4
50	37±1,4
63	37±1,8
80	46±1,8
100	51±1,8

Profile cylinder, ISO 15552, Series PRA

► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable, elastic ► piston rod: external thread ► ATEX optional

Piston Ø	WH												
125	65±2,2												

Profile cylinder, ISO 15552, Series PRA

► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: external thread

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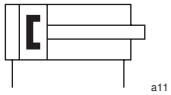


a11

Standards	ISO 15552
Compressed air connection	internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20 °C / +80 °C
Medium temperature min./max.	-20 °C / +80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Die-cast aluminum
End cover	Die-cast aluminum
Seal	Polyurethane
Nut for piston rod	Steel, galvanized
Scraper	Polyurethane

Technical Remarks

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Piston Ø		**[mm]**	**32**	**40**	**50**	**63**	**80**
Retracting piston force		[N]	435	660	1035	1765	2855
Extending piston force		[N]	505	790	1235	1960	3165
Impact energy		[J]	0.4	0.65	1	1.6	2.5
Weight	0 mm stroke	[kg]	0.5	0.65	1.06	1.42	2.37
	+10 mm stroke	[kg]	0.022	0.032	0.047	0.054	0.085
Stroke max.		[mm]	1600	1900	2100	2500	2800

Piston Ø		**[mm]**	**100**	**125**			
Retracting piston force		[N]	4635	7220			
Extending piston force		[N]	4945	7725			
Impact energy		[J]	3.9	6			
Weight	0 mm stroke	[kg]	3.51	6.72			
	+10 mm stroke	[kg]	0.1	0.15			
Stroke max.		[mm]	2800	2750			

Piston rod cylinders → Standard cylinders

Profile cylinder, ISO 15552, Series PRA

► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: external thread

	Piston Ø Piston rod thread Ports Piston rod Ø	32 M10x1,25 G 1/8 12	40 M12x1,25 G 1/4 16	50 M16x1,5 G 1/4 20	63 M16x1,5 G 3/8 20	80 M20x1,5 G 3/8 25
	Stroke 25	R480041555	R480041559	R480041563	R480041567	R480041573
	50	R480041556	R480041560	R480041564	R480041568	R480041574
	80	R480041557	R480041561	R480041565	R480041569	R480041575
	100	R480041558	R480041562	R480041566	R480041570	R480041576
	125	R480151537	R480051376	R480045537	R480054955	R480152097
	160	R480143129	R480044478	R480156862	R480152784	R480044479
	200	R480041250	R480151194	R480045822	R480148986	R480068280
	250	R480162928	R480068778	R480152659	R480069183	R480163037
	320	R480162929	R480160211	R480042163	R480148534	R480148937
	400	R480069508	R480162989	R480153304	R480148988	R480157647
	500	R480048725	R480044634	R480070399	R480154536	R480158439
	Piston Ø Piston rod thread Ports Piston rod Ø	**100 M20x1,5 G 1/2 25**	**125 M27x2 G 1/2 32**			
	Stroke 25	R480041577	R480148022			
	50	R480041578	R480141034			
	80	R480041579	R480143254			
	100	R480041580	R480170767			
	125	R480150480	R480170768			
	160	R480051377	R480144243			
	200	R480163053	R480167296			
	250	R480163054	R480170769			
	320	R480155887	R480170770			
	400	R480163055	R480170771			
	500	R480152777	R480170772			

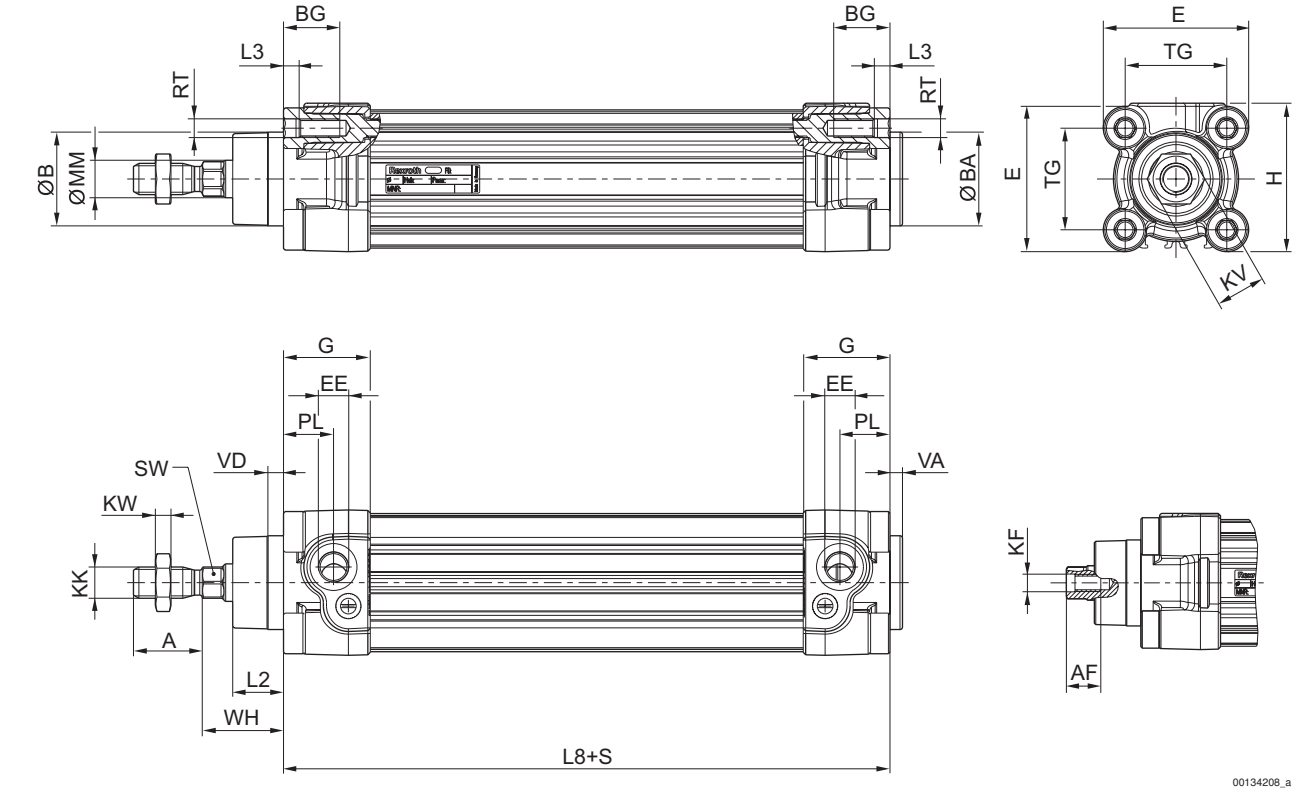
Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston rod cylinders → Standard cylinders

Profile cylinder, ISO 15552, Series PRA

► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: external thread

Dimensions



S = stroke

Piston Ø	A -2	AF+1	ØB d11	ØBA d11	BG min.	E	EE	G	H	KF	KK
32	22	12	30	30	16	46.5	G 1/8	27.75	47.5	M6	M10x1,25
40	24	13.5	35	35	16	53	G 1/4	33.25	53	M8	M12x1,25
50	32	17	40	40	16	65	G 1/4	31	65	M10	M16x1,5
63	32	17	45	45	16	75	G 3/8	38.25	75	M10	M16x1,5
80	40	21	45	45	17	95	G 3/8	38.25	95	M12	M20x1,5
100	40	21	55	55	17	115	G 1/2	42.25	115	M12	M20x1,5
125	54	28	60	60	20	140	G 1/2	53.85	140	M16	M27x2

Piston Ø	KV	KW	ØMM f8	PL	L2	L3 ±0,5	L8	RT	SW	TG	VA -1	VD
32	16	5	12	16	16.25	4.5	94±0,4	M6	10	32,5±0,5	4	5
40	18	6	16	20	18.25	4.5	105±0,7	M6	13	38±0,5	4	5
50	24	8	20	19	25	4.5	106±0,7	M8	17	46,5±0,6	4	5
63	24	8	20	24	25	4.5	121±0,8	M8	17	56,5±0,7	4	5
80	30	10	25	23.5	33	0	128±0,8	M10	22	72±0,7	4	5
100	30	10	25	25	36	0	138±1	M10	22	89±0,7	4	5
125	41	13.5	32	33	45	0	160±1	M12	27	110±1,1	6	7

Piston Ø	WH
32	26±1,4
40	30±1,4
50	37±1,4
63	37±1,8
80	46±1,8
100	51±1,8

Profile cylinder, ISO 15552, Series PRA

► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: external thread

Piston Ø	WH												
125	65±2,2												

Profile cylinder, ISO 15552, Series PRA

► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable, elastic ► piston rod: through, external thread

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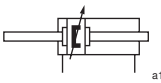


a17

Standards	ISO 15552
Compressed air connection	internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20 °C / +80 °C
Medium temperature min./max.	-20 °C / +80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Die-cast aluminum
End cover	Die-cast aluminum
Seal	Polyurethane
Nut for piston rod	Steel, galvanized
Scraper	Polyurethane

Technical Remarks

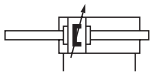
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Piston Ø		[mm]	32	40	50	63	80
Retracting piston force		[N]	435	660	1035	1765	2855
Extending piston force		[N]	435	660	1035	1765	2855
Cushioning length		[mm]	11.5	15	17	16.5	19.5
Cushioning energy		[J]	4.8	9	15	27	54
Weight	0 mm stroke	[kg]	0.58	0.8	1.34	1.72	2.92
	+10 mm stroke	[kg]	0.031	0.048	0.072	0.079	0.124
Stroke max.		[mm]	1600	1900	2100	2500	2800

Piston Ø		[mm]	100	125			
Retracting piston force		[N]	4635	7220			
Extending piston force		[N]	4635	7220			
Cushioning length		[mm]	19.5	22			
Cushioning energy		[J]	88	140			
Weight	0 mm stroke	[kg]	4.08	8.92			
	+10 mm stroke	[kg]	0.139	0.22			
Stroke max.		[mm]	2800	2750			

Profile cylinder, ISO 15552, Series PRA

► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable, elastic ► piston rod: through, external thread



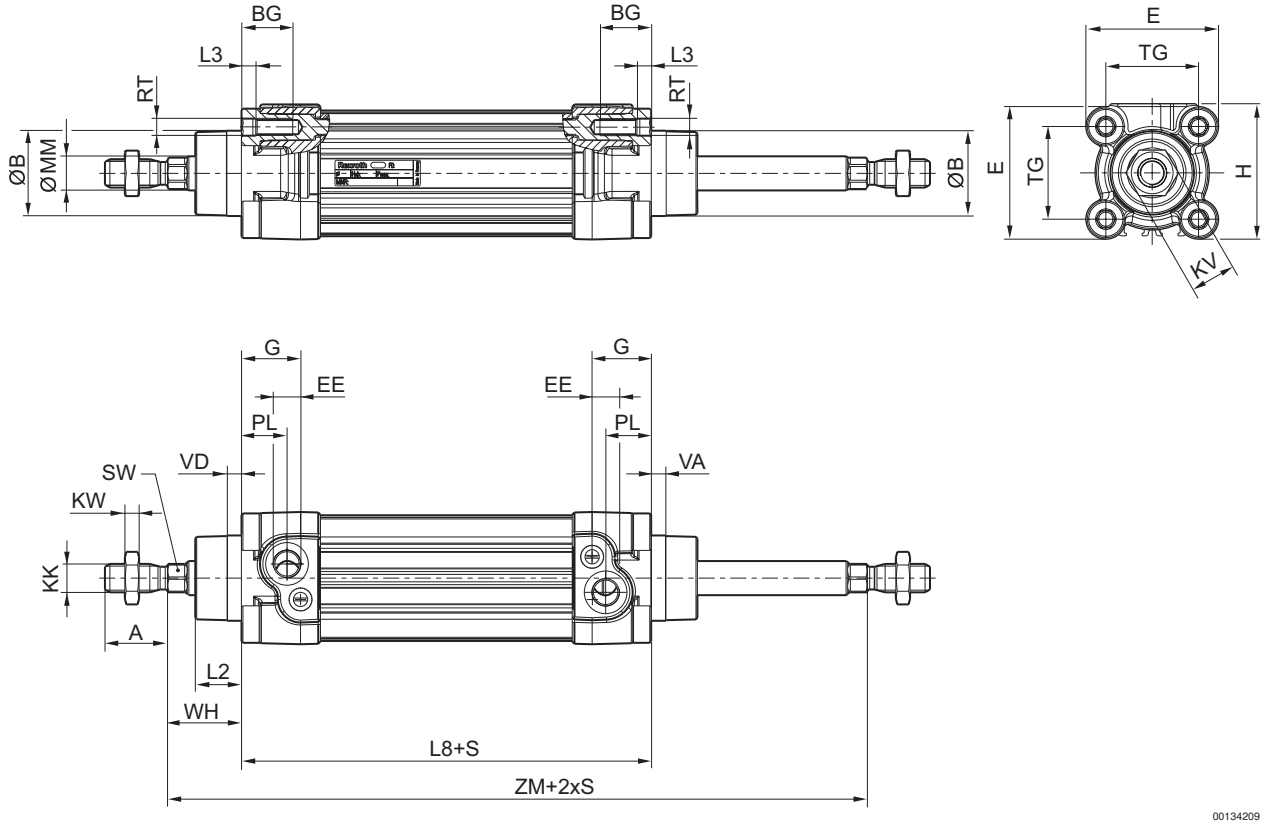
	Piston Ø Piston rod thread Ports Piston rod Ø	32 M10x1,25 G 1/8 12	40 M12x1,25 G 1/4 16	50 M16x1,5 G 1/4 20	63 M16x1,5 G 3/8 20	80 M20x1,5 G 3/8 25
	Stroke 25	R480041413	R480041432	R480041443	R480041453	R480041484
	50	R480041419	R480041433	R480041444	R480041454	R480041485
	80	R480041420	R480041434	R480041445	R480041455	R480041487
	100	R480041421	R480041435	R480041446	R480041456	R480041488
	125	R480041422	R480041436	R480041074	R480041457	R480041490
	160	R480041423	R480041437	R480041447	R480041458	R480041491
	200	R480041425	R480041438	R480041448	R480041459	R480041492
	250	R480041426	R480041439	R480041449	R480041460	R480041493
	320	R480041427	R480041440	R480041450	R480041461	R480041494
	400	R480041428	R480041441	R480041451	R480041481	R480041496
	500	R480041429	R480041442	R480041452	R480041482	R480041497
	Piston Ø Piston rod thread Ports Piston rod Ø	**100 M20x1,5 G 1/2 25**	**125 M27x2 G 1/2 32**			
	Stroke 25	R480148059	R480148066			
	50	R480069994	R480148067			
	80	R480148061	R480148068			
	100	R480059815	R480142910			
	125	R480146278	R480148069			
	160	R480148062	R480148070			
	200	R480148063	R480148071			
	250	R480077546	R480148072			
	320	R480148064	R480148073			
	400	R480148065	R480148074			
	500	R480148060	R480148075			

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Profile cylinder, ISO 15552, Series PRA

► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable, elastic ► piston rod: through, external thread

Dimensions



S = stroke

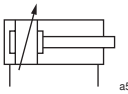
Piston Ø	A -2	ØB d11	BG min.	E	EE	G	H	KK	KV	KW	ØMM f8
32	22	30	16	46.5	G 1/8	27.75	47.5	M10x1,25	16	5	12
40	24	35	16	53	G 1/4	33.25	53	M12x1,25	18	6	16
50	32	40	16	65	G 1/4	31	65	M16x1,5	24	8	20
63	32	45	16	75	G 3/8	31	75	M16x1,5	24	8	20
80	40	45	17	95	G 3/8	38.25	95	M20x1,5	30	10	25
100	40	55	17	115	G 1/2	38.25	115	M20x1,5	30	10	25
125	54	60	20	140	G 1/2	42.25	140	M27x2	41	13.5	32

Piston Ø	PL	L2	L3 ±0,5	L8	RT	SW	TG	VD	WH	ZM	
32	16	16.25	4.5	94±0,4	M6	10	32,5±0,5	5	26±1,4	146+3/-1,5	
40	20	18.25	4.5	105±0,7	M6	13	38±0,5	5	30±1,4	165+3/-1,5	
50	19	25	4.5	106±0,7	M8	17	46,5±0,6	5	37±1,4	180+3/-1,5	
63	24	25	4.5	121±0,8	M8	17	56,5±0,7	5	37±1,8	195+3/-1,5	
80	23.5	33	0	128±0,8	M10	22	72±0,7	5	46±1,8	220+3/-1,5	
100	25	36	0	138±1	M10	22	89±0,7	5	51±1,8	240+3,5/-2	
125	33	45	0	160±1	M12	27	110±1,1	7	65±2,2	290+3,5/-2	

Profile cylinder, ISO 15552, Series PRA

► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► heat resistant ► cushioning: pneumatic, adjustable ► piston rod: external thread

00134193



a5

Standards	ISO 15552
Compressed air connection	internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-10°C / +150°C
Medium temperature min./max.	-10°C / +150°C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Die-cast aluminum
End cover	Die-cast aluminum
Seal	Fluorocaoutchouc
Nut for piston rod	Steel, galvanized
Scraper	Fluorocaoutchouc

Technical Remarks

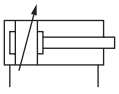
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Piston Ø		[mm]	32	40	50	63	80
Retracting piston force		[N]	435	660	1035	1765	2855
Extending piston force		[N]	505	790	1235	1960	3165
Cushioning length		[mm]	11.5	15	17	16.5	19.5
Cushioning energy		[J]	4.8	9	15	27	54
Weight	0 mm stroke	[kg]	0.5	0.65	1.06	1.42	2.37
	+10 mm stroke	[kg]	0.022	0.032	0.047	0.054	0.085
Stroke max.		[mm]	1600	1900	2100	2500	2800

Piston Ø		[mm]	100	125			
Retracting piston force		[N]	4635	7220			
Extending piston force		[N]	4945	7725			
Cushioning length		[mm]	19.5	22			
Cushioning energy		[J]	88	140			
Weight	0 mm stroke	[kg]	3.51	6.72			
	+10 mm stroke	[kg]	0.1	0.15			
Stroke max.		[mm]	2800	2750			

Profile cylinder, ISO 15552, Series PRA

► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► heat resistant ► cushioning: pneumatic, adjustable ► piston rod: external thread



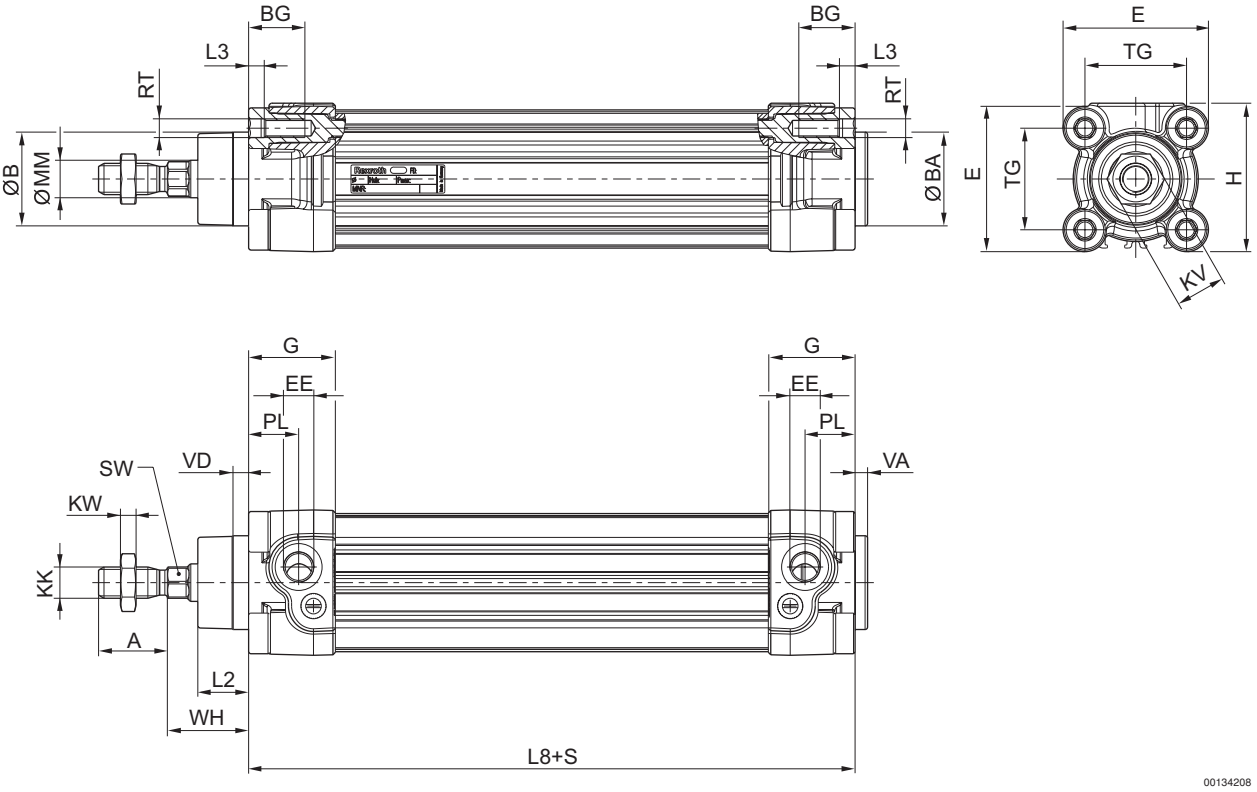
	Piston Ø Piston rod thread Ports Piston rod Ø	32 M10x1,25 G 1/8 12	40 M12x1,25 G 1/4 16	50 M16x1,5 G 1/4 20	63 M16x1,5 G 3/8 20	80 M20x1,5 G 3/8 25
	Stroke 25	R480144202	R480041108	R480147979	R480147990	R480144198
	50	R480147959	R480147968	R480147980	R480147991	R480148001
	80	R480040989	R480147969	R480147981	R480147992	R480148002
	100	R480147960	R480147970	R480147982	R480147993	R480147611
	125	R480147961	R480147971	R480147983	R480147994	R480148003
	160	R480147962	R480147972	R480147984	R480147995	R480148004
	200	R480147963	R480147973	R480147985	R480144714	R480147052
	250	R480147964	R480147974	R480147986	R480147996	R480148005
	320	R480147965	R480147975	R480147987	R480147997	R480146313
	400	R480147966	R480147976	R480147988	R480147998	R480042946
	500	R480147967	R480147977	R480147989	R480147999	R480148009
	Piston Ø Piston rod thread Ports Piston rod Ø	**100 M20x1,5 G 1/2 25**	**125 M27x2 G 1/2 32**			
	Stroke 25	R480148011	R480170695			
	50	R480148012	R480157264			
	80	R480148013	R480163258			
	100	R480148014	R480153677			
	125	R480148015	R480155595			
	160	R480148016	R480170774			
	200	R480148017	R480165969			
	250	R480148018	R480158304			
	320	R480148019	R480170775			
	400	R480148020	R480170776			
	500	R480147194	R480149365			

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Profile cylinder, ISO 15552, Series PRA

► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► heat resistant ► cushioning: pneumatic, adjustable ► piston rod: external thread

Dimensions



S = stroke

Piston Ø	A -2	AF+1	ØB d11	ØBA d11	BG min.	E	EE	G	H	KF	KK
32	22	12	30	30	16	46.5	G 1/8	27.75	47.5	M6	M10x1,25
40	24	13.5	35	35	16	53	G 1/4	33.25	53	M8	M12x1,25
50	32	17	40	40	16	65	G 1/4	31	65	M10	M16x1,5
63	32	17	45	45	16	75	G 3/8	38.25	75	M10	M16x1,5
80	40	21	45	45	17	95	G 3/8	38.25	95	M12	M20x1,5
100	40	21	55	55	17	115	G 1/2	42.25	115	M12	M20x1,5
125	54	28	60	60	20	140	G 1/2	53.85	140	M16	M27x2

Piston Ø	KV	KW	ØMM f8	PL	L2	L3 ±0,5	L8	RT	SW	TG	VA -1	VD
32	16	5	12	16	16.25	4.5	94±0,4	M6	10	32,5±0,5	4	5
40	18	6	16	20	18.25	4.5	105±0,7	M6	13	38±0,5	4	5
50	24	8	20	19	25	4.5	106±0,7	M8	17	46,5±0,6	4	5
63	24	8	20	24	25	4.5	121±0,8	M8	17	56,5±0,7	4	5
80	30	10	25	23.5	33	0	128±0,8	M10	22	72±0,7	4	5
100	30	10	25	25	36	0	138±1	M10	22	89±0,7	4	5
125	41	13.5	32	33	45	0	160±1	M12	27	110±1,1	6	7

Piston Ø	WH												
32	26±1,4												
40	30±1,4												
50	37±1,4												
63	37±1,8												
80	46±1,8												
100	51±1,8												

Profile cylinder, ISO 15552, Series PRA

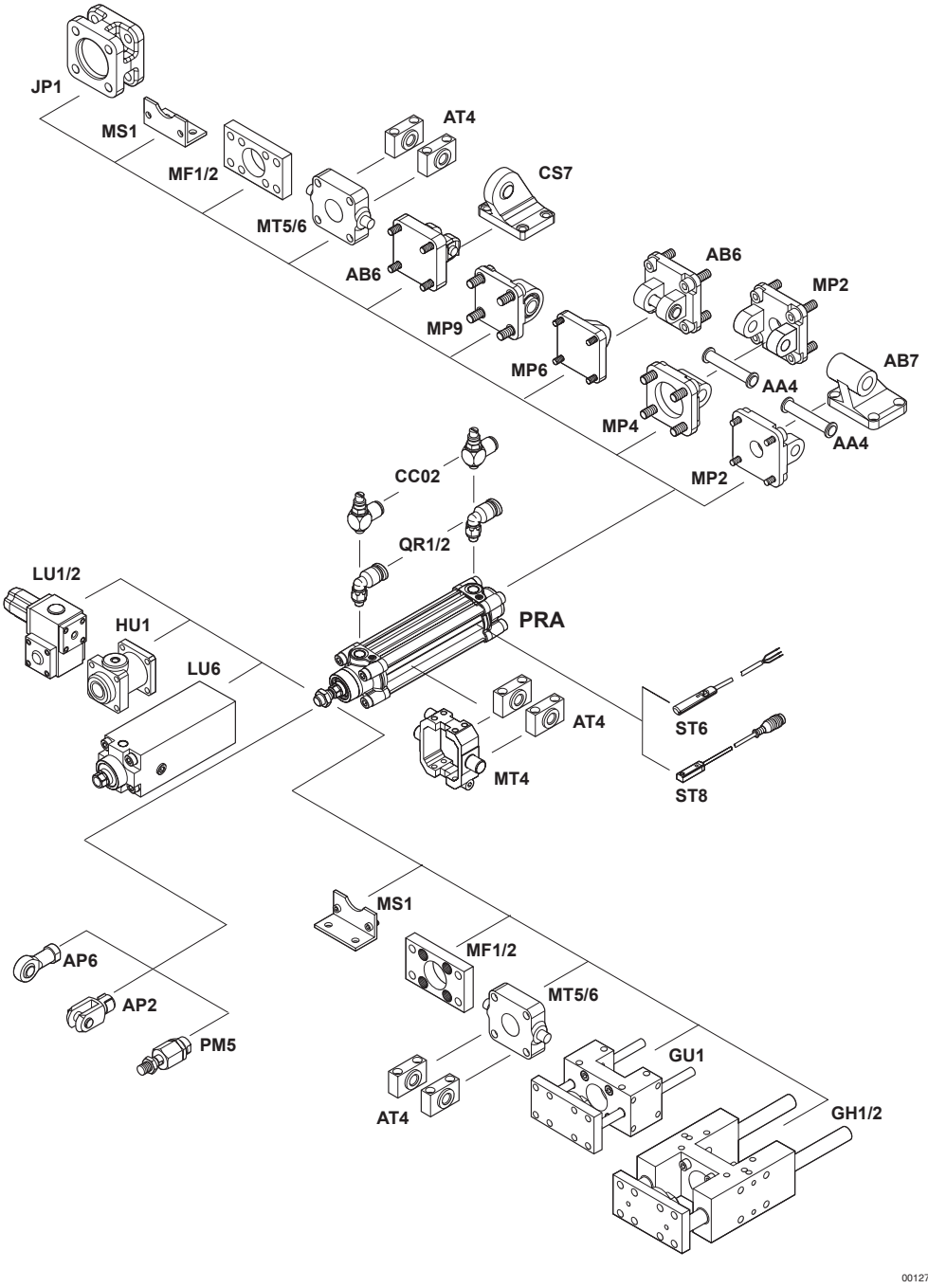
► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► heat resistant ► cushioning: pneumatic, adjustable ► piston rod: external thread

Piston Ø	WH												
125	65±2,2												

ISO 15552, Series PRA
Accessories

accessories overview

Overview drawing



NOTE:
This overview drawing is only for orientation to see 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.

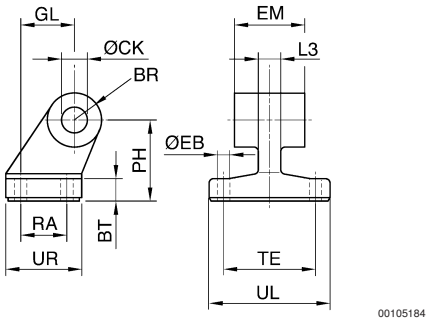
ISO 15552, Series PRA

Accessories

Bearing block AB7 with fixed bearing

► Cylinder mounting in accordance with ISO 15552

00105160



00105184

Part No.	Piston Ø	BR	BT	Ø CK H9	Ø EB H13	EM	GL JS14	L3 1)	PH JS15	RA JS14	TE JS14
1825805275	32	10	8	10	6.6	26 –0,2/–0,6	21	10	32	18	38
1825805276	40	11	10	12	6.6	28 -0,2/-0,6	24	12	36	22	41
1825805277	50	13	12	12	9	32 –0,2/–0,6	33	16	45	30	50
1825805278	63	15	12	16	9	40 –0,2/–0,6	37	16	50	35	52
1825805279	80	15	14	16	11	50 -0,2/–0,6	47	20	63	40	66
1825805280	100	19	15	20	11	60 –0,2/–0,6	55	20	71	50	76
1825805281	125	22,5	20	25	14	70 –0,5/–1,5	70	30	90	60	94

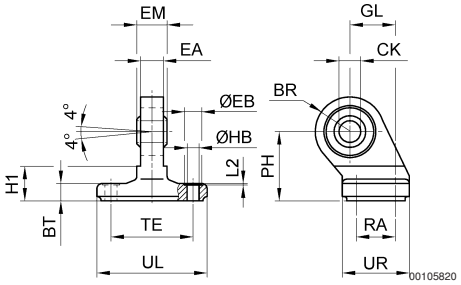
Part No.	UL 1)	UR 1)	Material	Surface
1825805275	51	31	Nodular graphite iron	galvanized
1825805276	54	35	Nodular graphite iron	galvanized
1825805277	65	45	Nodular graphite iron	galvanized
1825805278	67	50	Nodular graphite iron	galvanized
1825805279	86	60	Nodular graphite iron	galvanized
1825805280	96	70	Nodular graphite iron	galvanized
1825805281	124	90	Nodular graphite iron	galvanized

1) max.

CS7 bearing block with ball joint and foot, angled

► Cylinder mounting in accordance with VDMA 24562 part 2

00105817



00105820

ISO 15552, Series PRA

Accessories

Part No.	Piston Ø	BR 1)	BT	CK H7	EA 1)	Ø EB 2)	EM –0,1	GL JS14	H1 1)	Ø HB H13	L2 1)	PH JS15
1827001784	32	16	9	10	10.5	11	14	21	16	6.6	1.6	32
1827001785	40	18	9	12	12	11	16	24	16	6.6	1.6	36
1827001786	50	21	11	16	15	15	21	33	23	9	1.6	45
1827001787	63	23	11	16	15	15	21	37	23	9	1.6	50
1827001788	80	28	12	20	18	18	25	47	32	11	2.5	63
1827001789	100	30	13	20	18	18	25	55	33	11	2.5	71
1827001790	125	40	17	30	25	20	37	70	50	14	3.2	90

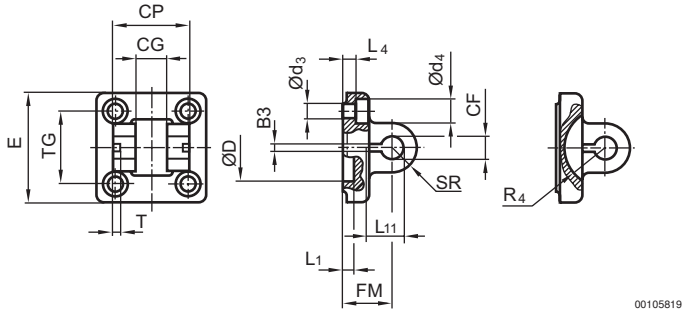
Part No.	RA JS14	TE JS14	UL 1)	UR 1)	Material	Surface
1827001784	18	38	51	31	Nodular graphite iron	galvanized
1827001785	22	41	54	35	Nodular graphite iron	galvanized
1827001786	30	50	65	45	Nodular graphite iron	galvanized
1827001787	35	52	67	50	Nodular graphite iron	galvanized
1827001788	40	66	86	60	Nodular graphite iron	galvanized
1827001789	50	76	96	70	Nodular graphite iron	galvanized
1827001790	60	94	124	90	Nodular graphite iron	galvanized

1) max.
2) Min.

Clevis mounting AB6

► **Cylinder mounting in accordance with ISO 15552**

00105816



00105819

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

Part No.	Piston Ø	B3 ±0,2	Ø CF F7	CG D10	CP d12	Ø d3	Ø d4	Ø D	E	FM ±0,2	L1 1)	L4 ±0,5
1827001593	32	3.3	10	14	34	6.6	11	30	49	22	4.5	5.5
1827001594	40	4.3	12	16	40	6.6	11	35	55	25	4.5	5.5
1827001595	50	4.3	16	21	45	9	15	40	67	27	4.5	6.5
1827002024	63	4.3	16	21	51	9	15	45	77	32	4.5	6.5
1827001597	80	4.3	20	25	65	11	18	45	97	36	4.5	10
1827001598	100	4.3	20	25	75	11	18	55	117	41	4.5	10
1827001599	125	6.3	30	37	97	14	20	60	140	50	7	10

ISO 15552, Series PRA

Accessories

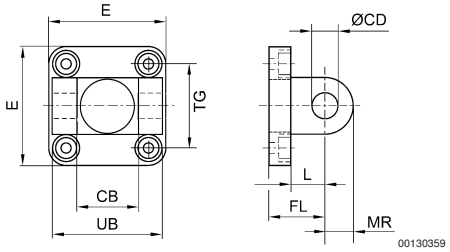
Part No.	L11 –0,5	R4	SR	T ±0,2	TG	Material					
1827001593	16.5	17	11	3	32,5 ±0,2	Aluminum					
1827001594	18	20	12	4	38 ±0,2	Aluminum					
1827001595	23	22	15	4	46,5 ±0,2	Aluminum					
1827002024	23	25	15	4	56,5 ±0,2	Aluminum					
1827001597	27	30	20	4	72 ±0,2	Aluminum					
1827001598	27	32	20	4	89 ±0,2	Aluminum					
1827001599	40	42	26	6	110 ±0,3	Aluminum					

1) Min.

Clevis mounting MP2

► Cylinder mounting in accordance with ISO 15552

P523_025



Scope of delivery: clevis mounting incl. mounting screws

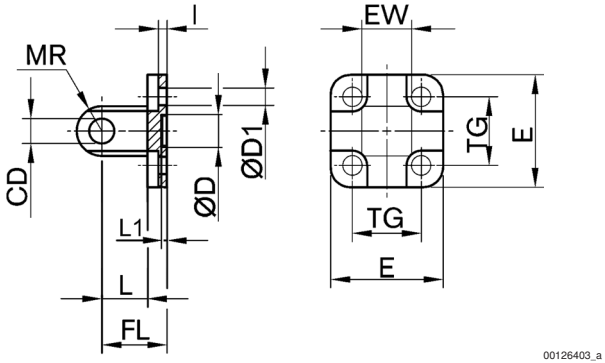
Part No.	Piston Ø	CB H14	Ø CD H9	E	FL	L 1)	MR 2)	UB h13	TG	Material
1827001289	32	26	10	49 ±1	22 ±0,2	12	10	45	32,5 ±0,2	Aluminum
1827001290	40	28	12	53 ±1	25 ±0,2	15	13	52	38 ±0,2	Aluminum
1827001291	50	32	12	63 ±1	27 ±0,2	15	13	60	46,5 ±0,2	Aluminum
1827001500	63	40	16	73 ±1	32 ±0,2	18	17	70	56,5 ±0,2	Aluminum
1827001293	80	50	16	98 ±1	36 ±0,2	20	17	90	72,0 ±0,2	Aluminum
1827001294	100	60	20	115 ±1	41 ±0,2	25	18	110	89,0 ±0,2	Aluminum
1827004862	125	70	25	140	50 ±0,2	30	26	130	110 ±0,3	Nodular graphite iron

Part No.	Surface											
1827001289	-											
1827001290	-											
1827001291	-											
1827001500	-											
1827001293	-											
1827001294	-											
1827004862	galvanized											

1) Min.
2) max.

ISO 15552, Series PRA
Accessories

Rear eye MP4 for clevis mounting MP2 and AB3
► **Cylinder mounting in accordance with ISO 15552**



Scope of delivery: clevis incl. mounting screws

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

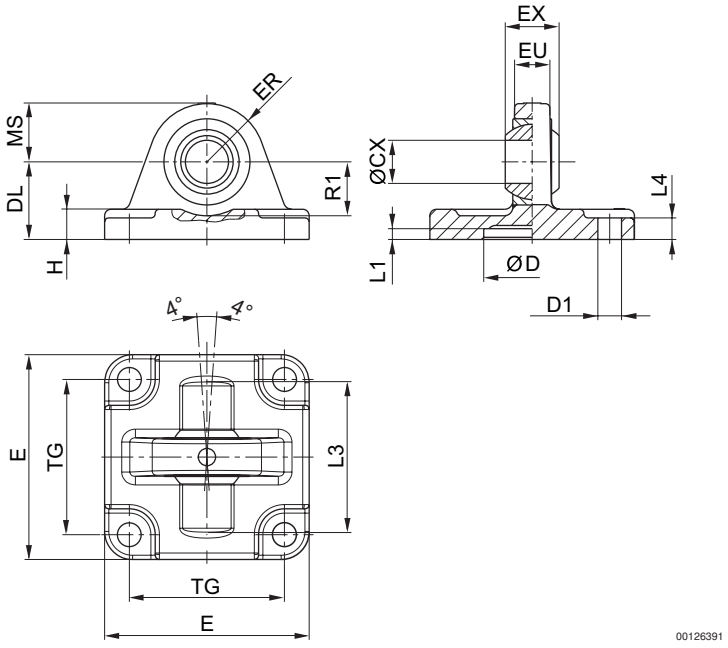
Part No.	TG	Material	Surface							
1827001283	32,5 ±0,2	Aluminum	-							
1827001284	38 ±0,2	Aluminum	-							
1827001285	46,5 ±0,2	Aluminum	-							
1827020086	56,5 ±0,2	Aluminum	-							
1827001287	72 ±0,2	Aluminum	-							
1827001288	89 ±0,2	Aluminum	-							
1827004866	110 ±0,3	Nodular graphite iron	galvanized							

1) Min.
2) max.

ISO 15552, Series PRA
Accessories

Rear eye with ball joint, MP6
► **Cylinder mounting in accordance with ISO 15552**

00105818



00126391

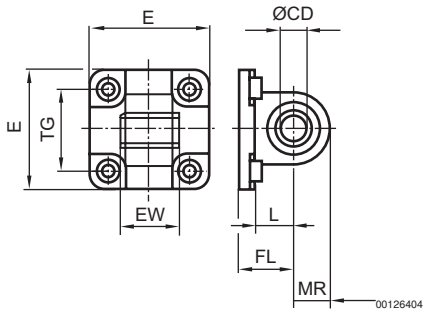
Scope of delivery: clevis incl. mounting screws

Part No.	Piston Ø	ØCX H7	ØD H11	ØD1 H13	DL ±0,2	E	EX –0,1	ER	EU	H	L1 min.	L3
1827001619	32	10	30	6.6	22	47	14	15	10.5	9	4.5	36
1827001620	40	12	35	6.6	25	53	16	18	12	9	4.5	42
1827001621	50	16	40	9	27	65	21	20	15	10.5	4.5	48
1827020087	63	16	45	9	32	75	21	23	15	10.5	4.5	55
1827001623	80	20	45	11	36	95	25	27	18	14	4.5	70
1827001624	100	20	55	11	41	115	25	30	18	15	4.5	80
1827001625	125	30	60	14	50	140	37	40	25	16	7	100

Part No.	L4	MS -0,5	R1 min.	TG	Material	Weight [kg]
1827001619	5.5	15	12	32,5 ±0,2	Aluminum	0.1
1827001620	5.5	18	15	38 ±0,2	Aluminum	0.1
1827001621	6.5	21	19	46,5 ±0,2	Aluminum	0.2
1827020087	6.5	23	21	56,5 ±0,2	Aluminum	0.3
1827001623	10	27	24	72 ±0,2	Aluminum	0.6
1827001624	10	30	25	89 ±0,2	Aluminum	0.8
1827001625	10	40	33	110 ±0,3	Aluminum	1.4

ISO 15552, Series PRA
Accessories

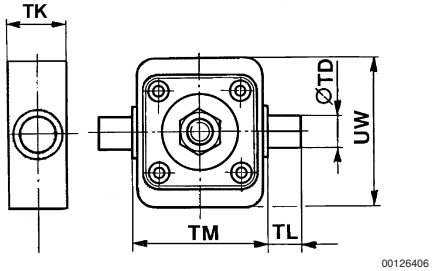
Rear eye MP9 with rubber bushing



Scope of delivery: clevis incl. mounting screws

Part No.	Piston Ø	CD H9	E	EW	FL	L	MR	TG ±0,2	Material	Weight [kg]	
3683202000	25	10	40	17.5	20	14.5	12	27	Die-cast aluminum	0.1	
3683203000	32	10	46	25.5	22	16.5	14	32.5	Die-cast aluminum	0.1	
3683204000	40	12	55	27	25	17.5	19	38	Die-cast aluminum	0.1	
3683205000	50	12	62	31	27	18.5	19.5	46.5	Die-cast aluminum	0.2	
3683206000	63	16	80	39.5	32	21.5	26	56.5	Die-cast aluminum	0.3	
3683208000	80	16	94	49.5	36	24.5	27	72	Die-cast aluminum	0.4	
3683210000	100	20	114	59.5	41	26.5	29	89	Die-cast aluminum	0.7	

MT4 center trunnion mounting



Part No.	Piston Ø	Ø TD e9	TK 2)	TL h14	TM	UW	Material	Surface		
1827003991	32	12	22	12	50	70	Nodular graphite iron	galvanized		
1827003992	40	16	28	16	63	78	Nodular graphite iron	galvanized		

2) max.

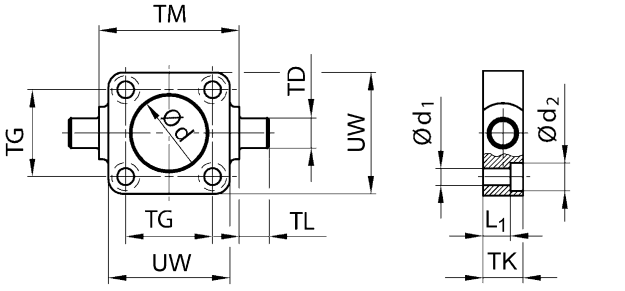
ISO 15552, Series PRA
Accessories

Part No.	Piston Ø	Ø TD e9	TK 2)	TL h14	TM	UW	Material	Surface		
1827003993	50	16	28	16	75	96	Nodular graphite iron	galvanized		
1827003994	63	20	35	20	90	108	Nodular graphite iron	galvanized		
1827003995	80	20	35	20	110	130	Nodular graphite iron	galvanized		
1827003996	100	25	46	25	132	150	Nodular graphite iron	galvanized		
1827003997	125	25	46	25	160	171	Nodular graphite iron	galvanized		

2) max.

Trunnion mounting MT5, MT6, front or rear

00128925



00126407

The delivered product may vary from that in the illustration.
Scope of delivery: trunnion mounting incl. mounting screws

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

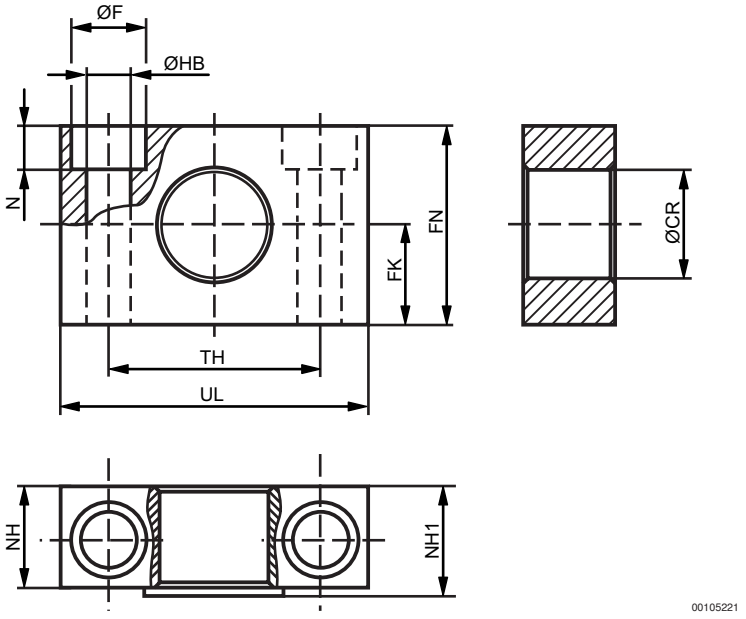
Part No.	Material	Surface									
1827001609	Nodular graphite iron	galvanized									
1827001610	Nodular graphite iron	galvanized									
1827001611	Nodular graphite iron	galvanized									
1827002046	Nodular graphite iron	galvanized									
1827001613	Nodular graphite iron	galvanized									
1827001614	Nodular graphite iron	galvanized									

ISO 15552, Series PRA
Accessories

Part No.	Material	Surface									
1827001615	Nodular graphite iron	galvanized									

Bearing AT4 for trunnion mounting MT4, MT5, MT6
► **Cylinder mounting in accordance with ISO 15552**

00105163



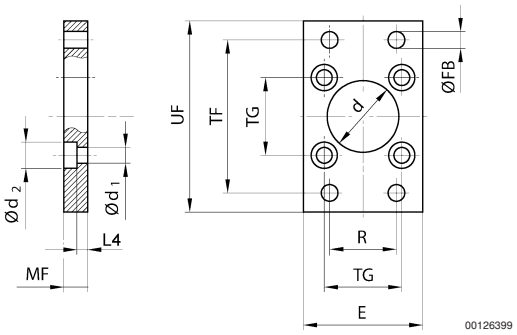
00105221

Part No.	Piston Ø	ØCR H7	ØF H13	FK ±0,1	FN	ØHB H12	N –0,4	NH	NH1	TH ±0,15	UL f8
1827001603	32	12	11	15 ±0,1	30	6.6	6.8	15	18	32 ±0,2	46
1827001604	40, 50	16	15	18 ±0,1	36	9	9	18	21	36 ±0,2	55
1827001605	63, 80	20	18	20 ±0,1	40	11	11	20	23	42 ±0,2	65
1827001606	100, 125	25	20	25 ±0,1	50	14	13	25	28.5	50 ±0,2	75

Part No.	Material	Surface	Delivery quantity [Piece]						
1827001603	Steel	galvanized	2						
1827001604	Steel	galvanized	2						
1827001605	Steel	galvanized	2						
1827001606	Steel	galvanized	2						

ISO 15552, Series PRA
Accessories

Flange mounting MF1, MF2
► **Cylinder mounting in accordance with ISO 15552**



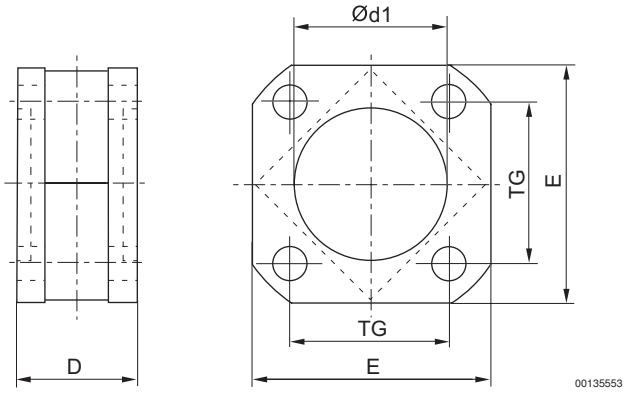
Scope of delivery: flange mounting incl. mounting screws

Part No.	Piston Ø	Ø d H11	Ø d1	Ø d2	E 1)	Ø FB	L4	MF	R	TF	TG
1827001277	32	30	6.6	11	50	7	4.5	10	32	64	32,5 ±0,2
1827001278	40	35	6.6	11	55	9	4.5	10	36	72	38 ±0,2
1827001279	50	40	9	15	65	9	6	12	45	90	46,5 ±0,2
1827001499	63	45	9	15	75	9	6	12	50	100	56,5 ±0,2
1827001281	80	45	11	18	100	12	9	16	63	126	72 ±0,2
1827001282	100	55	11	18	120	14	9	16	75	150	89 ±0,2
1827004861	125	60	14	20	140	16	10.5	20	90	180	110 ±0,3

Part No.	UF	Material	Surface
1827001277	80	Steel	galvanized
1827001278	90	Steel	galvanized
1827001279	110	Steel	galvanized
1827001499	125	Steel	galvanized
1827001281	154	Steel	galvanized
1827001282	186	Steel	galvanized
1827004861	220	Steel	galvanized

1) max.

Intermediate flange JP1 for multi-position cylinders

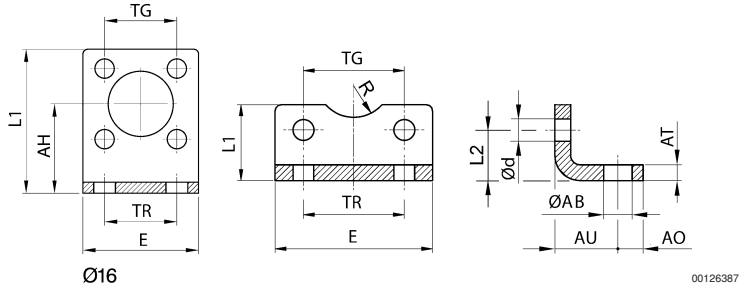


Scope of delivery: Incl. mounting screws

ISO 15552, Series PRA
Accessories

Part No.	Piston Ø	D	Ø d1 N7	E	TG	Material					
1827020247	32	27	30	47	32.5	Aluminum					
1827020248	40	27	35	53	38	Aluminum					
1827020249	50	32	40	65	46.5	Aluminum					
1827020250	63	28	45	75	56.5	Aluminum					
1827020251	80	38	45	95	72	Aluminum					
1827020252	100	38	55	115	89	Aluminum					
1827020253	125	44	60	140	110	Aluminum					

Foot mounting MS1

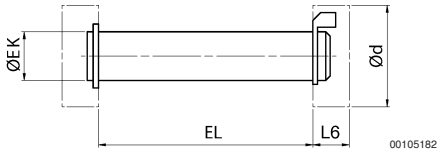


Scope of delivery: 2 foot mountings incl. mounting screws

Part No.	Piston Ø	Ø AB	AO	AT	AU ±0,2	Ø d	E	L1	L2	R	TG ±0,2
1827001271	32	7	11	5 ±0,5	24	6.6	48	30	15.7	15	32.5
1827001272	40	10	12	5 ±0,5	28	6.6	53	30	17	17.5	38
1827001273	50	10	13	5 ±0,5	32	10	63	30	21.7	20	46.5
1827001498	63	10	13	5 ±0,5	32	10	80	45	21.7	22.5	56.5
1827001275	80	12	19	6 ±0,75	41	11	98	60	27	22.5	72
1827001276	100	14.5	19	6 ±0,75	41	11	115	60	26.5	27.5	89
1827001310	125	16	15	8 ±0,75	45	14	140	60	35±0,3	–	110 ±0,3

Part No.	TR	Material	Surface								
1827001271	32	Steel	galvanized								
1827001272	36	Steel	galvanized								
1827001273	45	Steel	galvanized								
1827001498	50	Steel	galvanized								
1827001275	63	Steel	galvanized								
1827001276	75	Steel	galvanized								
1827001310	90	Steel	galvanized								

AA4 axle



ISO 15552, Series PRA
Accessories

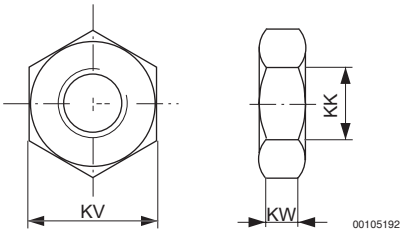
Part No.	Piston Ø	Ø EK e8	EL	Ø d 1)	L6 1)	Material	Surface	ISO 15552	Note
1823120020	32	10	45,2 +2	23	9	Steel	galvanized	-	2)
1823120021	40	12	52,2 +2	25	9	Steel	galvanized	-	2)
1823120022	50	12	60,2 +2	25	9	Steel	galvanized	-	2)
1823120023	63	16	70,2 +2	32	11	Steel	galvanized	-	2)
1823120024	80	16	90,2 +2	32	11	Steel	galvanized	-	2)
1823120025	100	20	110,2 +2	40	11	Steel	galvanized	-	2)
5236000092	125	25	132 +0,5	34.2	3,5	Steel	galvanized	ISO 15552	2)

1) max.
2) Scope of delivery: pivot pins incl. circlips

ISO 15552, Series PRA
Accessories

Piston rod nut MR9

00105168



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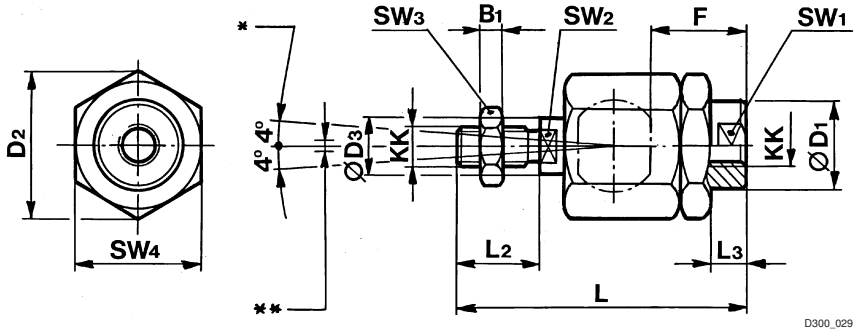
Part No.	KK	KV	KW	Material	Surface	Weight [kg]			
1823300020	M10x1,25	17	6	Steel	galvanized	0.01			
1823300021	M12x1,25	19	7	Steel	galvanized	0.012			
1823300030	M16x1,5	24	8	Steel	galvanized	0.017			
1823300031	M20x1,5	30	10	Steel	galvanized	0.03			
1823300029	M27x2	41	13.5	Steel	galvanized	0.108			
1823300025	M36x2	55	18	Steel	galvanized	0.175			
1823300026	M42x2	65	21	Steel	galvanized	0.37			

Flexible spherical coupling, PM5

00105169



D300_029

* angle equalization
** Radial joint from 0,5 - 2 mm

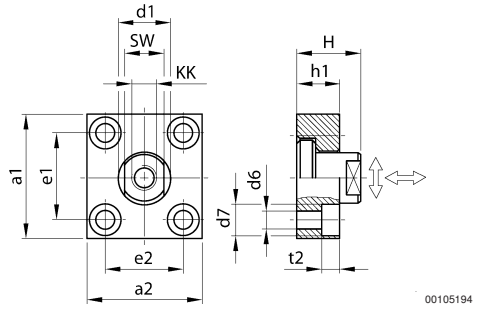
Part No.	KK	B1	Ø D1	D2	Ø D3	F	L ±2	L2	L3 ±1	SW1	SW2	SW3
1826409002	M10x1,25	6	21.5	34	14	23	73	20	7.5	19	12	17
1826409003	M12x1,25	7	21.5	34	14	28	77	24	13	19	12	19
1826409004	M16x1,5	8	33.5	47	22	32	108	32	9	30	19	24
1826409005	M20x1,5	10	33.5	47	22	42	122	40	19	30	19	30
1826409006	M27x2	13.5	62	62	28	48	147	54	14	32	24	41

Part No.	SW4	Material	Surface	Weight [kg]					
1826409002	30	Steel	galvanized	0.21					
1826409003	30	Steel	galvanized	0.21					
1826409004	41	Steel	galvanized	0.65					
1826409005	41	Steel	galvanized	0.68					

ISO 15552, Series PRA
Accessories

Part No.	SW4	Material	Surface	Weight [kg]					
1826409006	55	Steel	galvanized	1.7					

Flexible plate coupling PM7



Part No.	KK	a1	a2	d1 h11	d6 H13	d7 H13	e1 H13	e2	h1	t2	H
1827001629	M10x1,25	60	37	20	6.6	11	36 ±0,15	23 ±0,15	15	7	24
1827001630	M12x1,25	60	56	25	9	15	42 ±0,2	38 ±0,2	20	9	30
1827001631	M16x1,5	80	80	30	11	18	58 ±0,2	58 ±0,2	20	11	32
1827001632	M20x1,5	90	90	40	14	20	65 ±0,3	65 ±0,3	20	13	35
1827001633	M27x2	90	90	40	14	20	65 ±0,3	65 ±0,3	20	13	35
1827001634	M36x2	125	125	60	18	26	90 ±0,3	90 ±0,3	30	17	55

Part No.	SW	Material	Surface	Weight [kg]					
1827001629	17	Steel	galvanized	0.3					
1827001630	19	Steel	galvanized	0.4					
1827001631	24	Steel	galvanized	0.9					
1827001632	36	Steel	galvanized	1.15					
1827001633	36	Steel	galvanized	1.1					
1827001634	50	Steel	galvanized	3.4					

ISO 15552, Series PRA
Accessories

AP2 rod clevis
Steel, galvanized

Fig.1

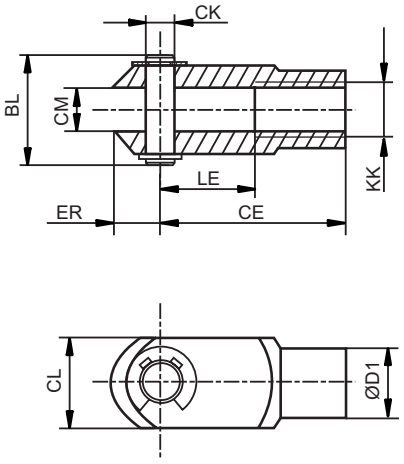
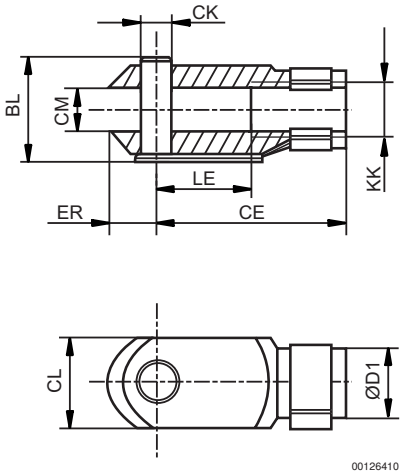


Fig. 2

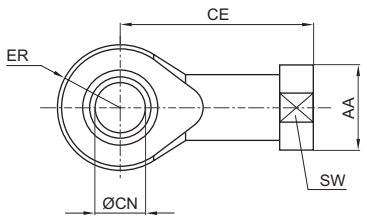


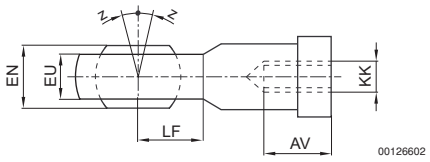
Part No.	KK	Fig.	BL	CE	ØCK e11	CL	CM	ØD1	ER	LE
1822122024	M10x1,25	2	26	40	10	20	10	18	12	20
1822122025	M12x1,25	2	31	48	12	24	12	20	14	24
1822122005	M16x1,5	2	39	64	16	32	16	26	19	32
1822122004	M20x1,5	2	50	80	20	40	20	34	20	40
1827001493	M27x2	1	68	110	30	55	30	48	38	54

Part No.	Material	Surface	Weight [kg]					
1822122024	Steel	galvanized	0.1					
1822122025	Steel	galvanized	0.16					
1822122005	Steel	galvanized	0.4					
1822122004	Steel	galvanized	0.7					
1827001493	Steel	galvanized	2					

ISO 15552, Series PRA
Accessories

Ball eye rod end AP6



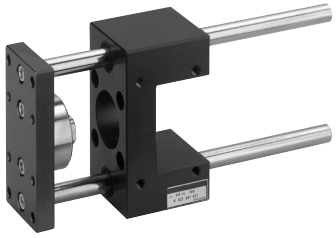


Part No.	KK	AA	AV min.	CE	Ø CN H7	EN –0,1	ER	EU max.	LF	SW	Z [°] max.
1822124003	M10x1,25	19	15	43	10	14	14	11.5	14	17	4
1822124004	M12x1,25	22	18	50	12	16	16	12.5	16	19	4
1822124005	M16x1,5	27	24	64	16	21	21	15.5	21	22	4
1822124006	M20x1,5	34	30	77	20	25	25	18.5	25	30	4
1822124013	M27x2	50	45	110	30	37	35	27	35	41	4

Part No.	Material	Surface	Weight [kg]					
1822124003	Steel	galvanized	0.07					
1822124004	Steel	galvanized	0.105					
1822124005	Steel	galvanized	0.21					
1822124006	Steel	galvanized	0.38					
1822124013	Steel	galvanized	1.17					

ISO 15552, Series PRA
Accessories

Guide unit, GU1
► Ø 32 - 100 mm ► Plain bearing ► for standard cylinder ISO 15552



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Ambient temperature min./max.	-20 °C / 80 °C
Materials:	
Bearing housings	Aluminum, black anodized
Bearing type	Sintered bronze
Carrying plate	Aluminum, black anodized
Flexible coupling in carrying plate	Stainless steel
Guide rods	Stainless steel, smooth rolled

Suitable piston Ø		[mm]	32	40	50	63	80
Weight	0 mm stroke	[kg]	0.63	0.946	1.356	1.655	3.45
	10 mm stroke	[kg]	0.0122	0.0176	0.0176	0.0176	0.0222

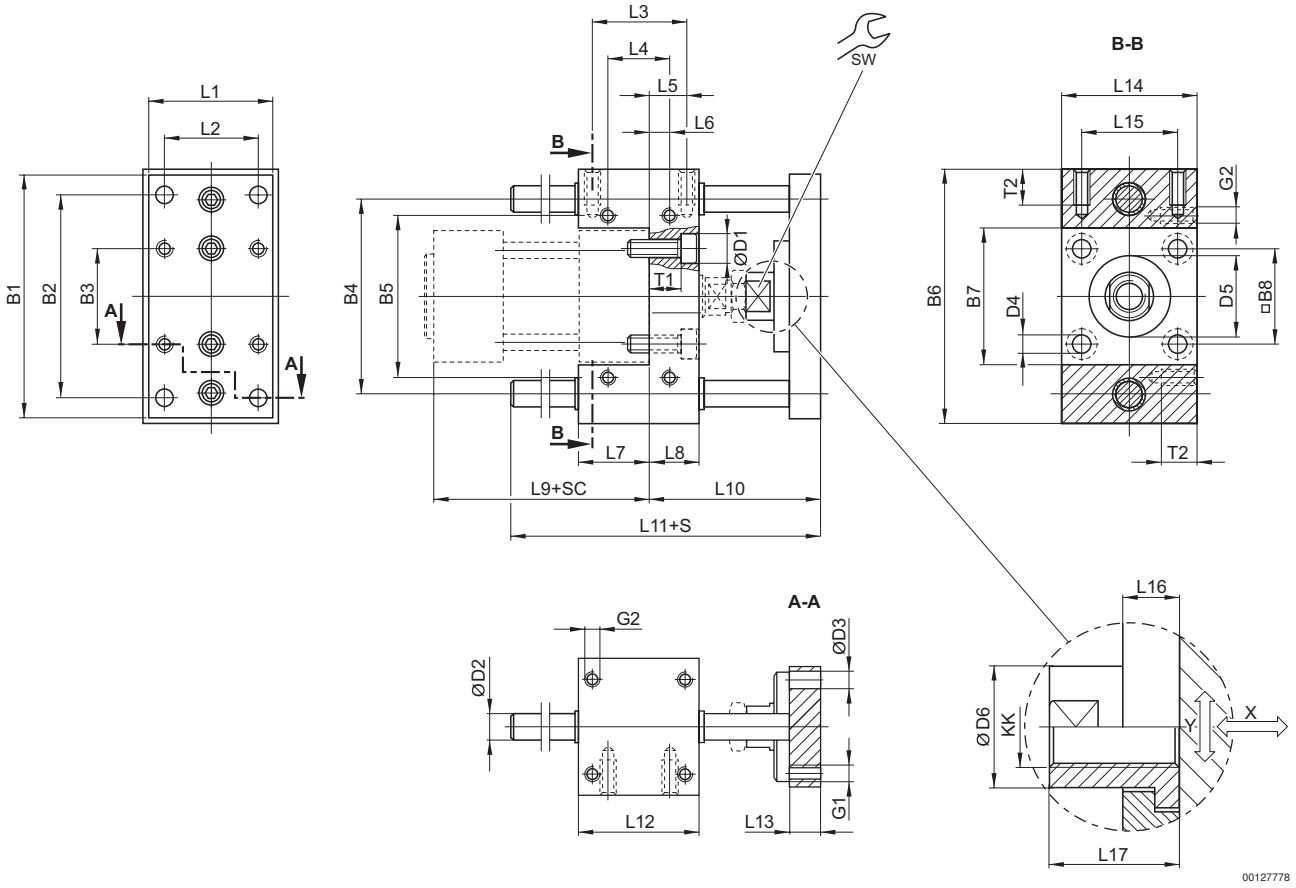
Suitable piston Ø		[mm]	100				
Weight	0 mm stroke	[kg]	4.69				
	10 mm stroke	[kg]	0.0222				

	Suitable piston Ø [mm]	32	40	50	63	80
	Stroke 50	**0821401010**	**0821401020**	**0821401030**	0821401480	0821401050
	100	**0821401011**	**0821401021**	**0821401031**	**0821401481**	0821401051
	160	**0821401012**	**0821401022**	**0821401032**	0821401482	0821401052
	200	**0821401013**	**0821401023**	**0821401033**	0821401483	0821401053
	250	**0821401014**	0821401024	0821401034	0821401484	0821401054
	320	**0821401015**	0821401025	0821401035	0821401485	0821401055
	400	0821401016	**0821401026**	0821401036	0821401486	0821401056
	500	0821401017	**0821401027**	**0821401037**	0821401487	0821401057
	600	0821401018	0821401028	0821401038	0821401488	0821401058
	800	0821401019	0821401029	0821401039	0821401489	0821401059
	1000	0821401500	0821401502	0821401504	0821401490	0821401508
	1200	0821401501	0821401503	0821401505	0821401491	0821401509
	Suitable piston Ø [mm]	**100**				
	Stroke 50	0821401060				
	100	0821401061				
	160	0821401062				
	200	0821401063				
	250	0821401064				
	320	0821401065				
	400	0821401066				
	500	0821401067				
	600	0821401068				
	800	0821401069				
	1000	0821401510				
	1200	0821401511				

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information

ISO 15552, Series PRA
Accessories

Ø 32 - 100 mm



S = stroke
SC = cylinder stroke
X = max. play (axial)
Y = min. play (radial)

Piston Ø	B1	B2	B3	B4	B5	B6	B7	B8	D1	D2	D3	D4	D5
32	90	78	32.5	74	58	100	48	32.5	11	10	6.6	6.6	30 M8
40	100	84	38	80	64	106	54	38	11	12	6.6	6.6	35 M8
50	120	100	46.5	96	80	125	66	46.5	15	12	9	9	40 M8
63	125	105	56.5	104	95	132	76	56.5	15	12	9	9	45 M8
80	155	130	72	130	130	165	98	72	18	16	11	11	45 M8
100	175	150	89	150	150	185	118	89	18	16	11	11	55 M8

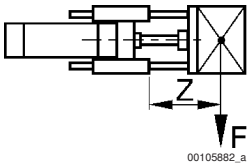
Piston Ø	D6	G1	G2	KK	L1	L2	L3	L4	L5	L6	L7	L8	L9
32	18	M6	M6	M10x1,25	45	32.5	32.5	32.5	9.25	9.25	31	17	94
40	18	M6	M6	M12x1,25	50	38	38	38	11	11	37	21	105
50	24	M8	M8	M16x1,5	60	46.5	46.5	46.5	18.75	18.75	34	25	106
63	24	M8	M8	M16x1,5	70	56.5	56.5	56.5	15.25	15.25	51	25	121
80	30	M10	M10	M20x1,5	90	72	72	50	25	14	56	34	128
100	30	M10	M10	M20x1,5	110	89	89	70	28.5	19	71	39	138

Piston Ø	L10	L11	L12	L13	L14	L15	L16	L17	SW	T1	T2		
32	69	106	48	12	48	32.5	14	22	15	10	14		
40	74	117	58	12	56	38	14	22	15	14	14		

ISO 15552, Series PRA
Accessories

Piston Ø	L10	L11	L12	L13	L14	L15	L16	L17	SW	T1	T2		
50	89	129	59	15	66	46.5	14	26	22	16	16		
63	89	146	76	15	76	56.5	14	26	22	16	16		
80	106	170	90	16	98	72	14	32	27	24	20		
100	111	190	110	16	118	89	14	32	27	29	20		

Useful load



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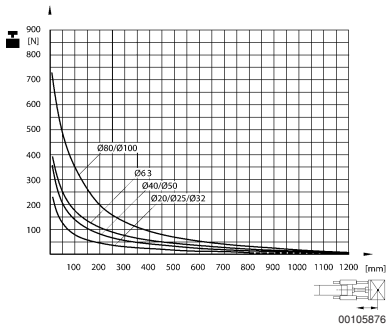

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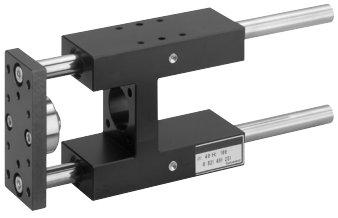
F = Useful load, Z = Projection

Guide unit, GH2
► Ø 32 - 100 mm ► linear ball bearing ► for standard cylinder ISO 15552


00105863

Ambient temperature min./max.	-20 °C / 80 °C
Materials:	
Bearing type	Steel
Carrying plate	Aluminum, black anodized
Flexible coupling in carrying plate	Stainless steel
Guide rods	Stainless steel, ground

Suitable piston Ø		[mm]	32	40	50	63	80
Weight	0 mm stroke	[kg]	1.3	2.3	3.7	4.7	8.8
	10 mm stroke	[kg]	0.009	0.016	0.025	0.025	0.039

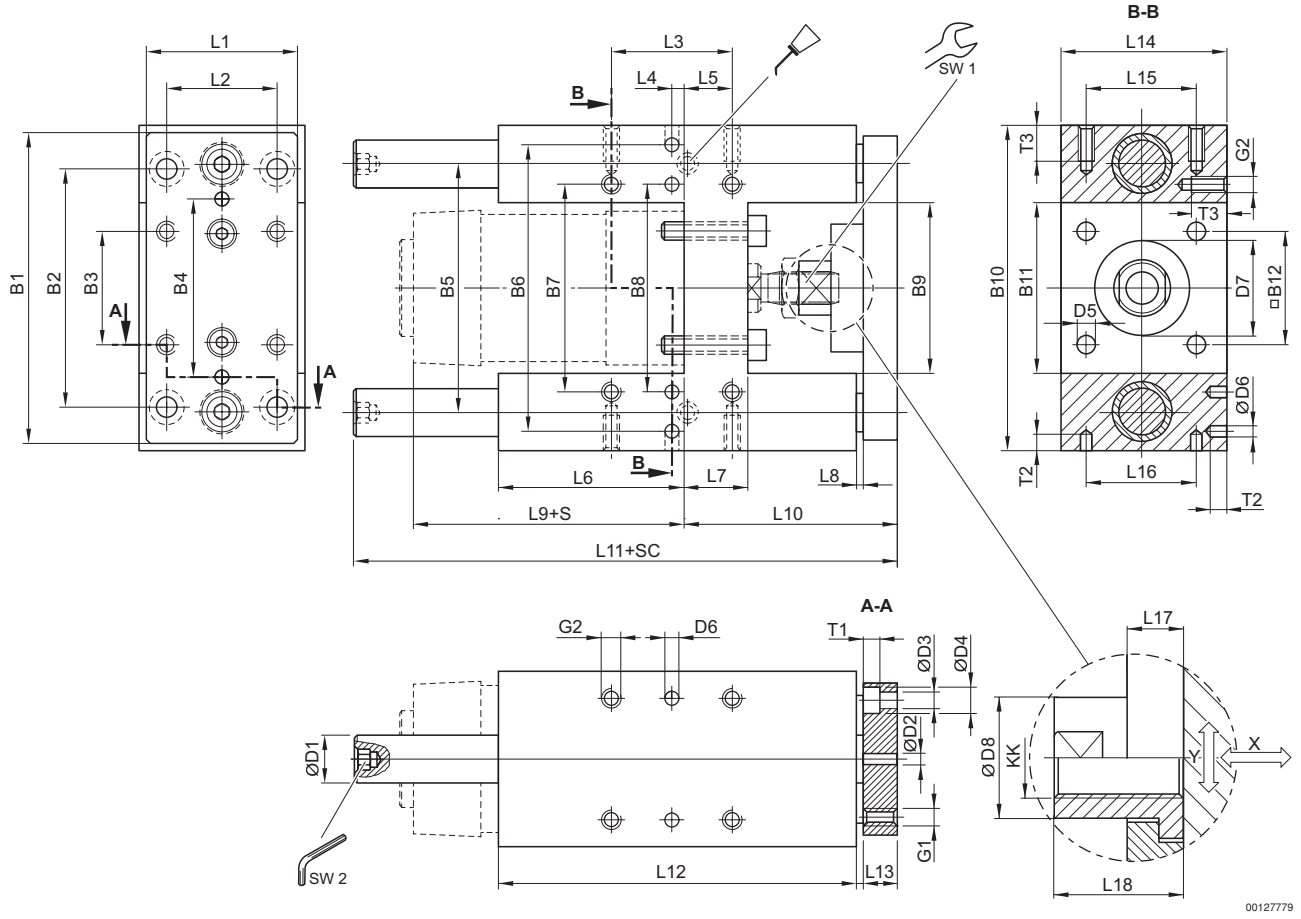
Suitable piston Ø		[mm]	100				
Weight	0 mm stroke	[kg]	11.1				
	10 mm stroke	[kg]	0.039				

ISO 15552, Series PRA
Accessories

	Suitable piston Ø [mm] Min. play (radial) [mm]	32 1.5	40 2	50 2	63 2	80 2
	Stroke 50	**0821401320**	**0821401330**	**0821401340**	**0821401380**	-
	100	**0821401321**	**0821401331**	**0821401341**	**0821401381**	**0821401360**
	200	**0821401322**	**0821401332**	**0821401342**	**0821401382**	**0821401361**
	320	**0821401323**	**0821401333**	**0821401343**	**0821401383**	0821401362
	500	**0821401324**	**0821401334**	**0821401344**	0821401384	**0821401363**
	600	0821401325	0821401335	0821401345	0821401385	0821401364
	800	0821401326	0821401336	0821401346	0821401386	0821401365
	1000	0821401327	0821401337	0821401347	0821401387	0821401366
	1200	0821401328	0821401338	0821401348	0821401388	0821401367
	Suitable piston Ø [mm] Min. play (radial) [mm]	**100 2**				
	Stroke 50	-				
	100	0821401370				
	200	0821401371				
	320	0821401372				
	500	0821401373				
	600	0821401374				
	800	0821401375				
	1000	0821401376				
	1200	0821401377				

ISO 15552, Series PRA
Accessories

Ø 32 - 100 mm



S = stroke
SC = cylinder stroke
X = max. play (axial)
Y = min. play (radial)
Hexagon in guide rod

Piston Ø	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
32	90	78	32.5	50 ±0,02	74	81 ±0,02	61	61 ±0,02	50.2	97	50.2	32.5
40	110	84	38	54 ±0,02	87	99 ±0,02	69	69 ±0,02	58.2	115	58.2	38
50	130	100	46.5	72 ±0,02	104	119 ±0,02	85	85 ±0,02	70.2	137	70.2	46.5
63	145	105	56.5	82 ±0,02	119	132 ±0,02	100	100 ±0,02	85.2	152	85.2	56.5
80	180	130	72	106 ±0,02	148	166 ±0,02	130	130 ±0,02	105.4	189	105.4	72
100	200	150	89	131 ±0,02	172	190 ±0,02	150	150 ±0,02	130.4	213	130.4	89

Piston Ø	D1	D2	D3	D4	D5	D6	D7	D8	G1	G2	KK	L1	L2
32	12	6 H7	6.6	11	6.6	6 H7	30 M8	14.5	M6	M6	M10x1,25	45	32.5
40	16	6 H7	6.6	11	6.6	6 H7	35 M8	18	M6	M6	M12x1,25	54	38
50	20	6 H7	9	15	9	6 H7	40 M8	24	M8	M8	M16x1,5	63	46.5
63	20	6 H7	9	15	9	6 H7	45 M8	24	M8	M8	M16x1,5	80	56.5
80	25	6 H7	11	18	11	6 H7	45 M8	30	M10	M10	M20x1,5	100	72
100	25	6 H7	11	18	11	6 H7	55 M8	30	M10	M10	M20x1,5	120	89

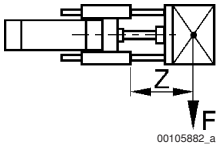
ISO 15552, Series PRA

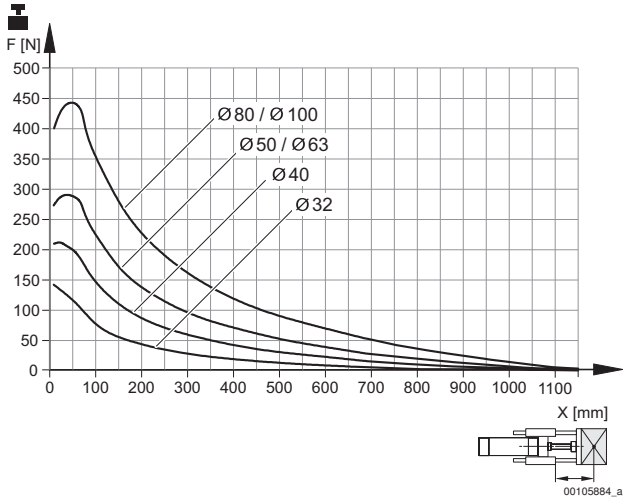
Accessories

Piston Ø	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15
32	32.5	12	4.25	76	17	3	94	64	177.5	125	12	50	32.5
40	38	8	11	81	21	3	105	74	192.5	140	12	58	38
50	46.5	4.5	18.75	79	26	3	106	89	237	150	15	70	46.5
63	56.5	13	15.25	111	26	3	121	89	237	182	15	85	56.5
80	72	15	21	128	34	3	128	110	280	215	20	105	72
100	89	20	24.5	128	39	3	138	115	280	220	20	130	89

Piston Ø	L16	L17	L18	T1	T2	T3	SW1	SW2					
32	32,5 ±0,02	6	17	6.5	10	15	13	5					
40	38 ±0,02	14	22	6.5	10	15	15	6					
50	46,5 ±0,02	14	26	9	10	16	22	6					
63	56,5 ±0,02	14	26	9	10	16	22	6					
80	72 ±0,02	14	32	11	10	20	27	8					
100	89 ±0,02	14	32	11	10	20	27	8					

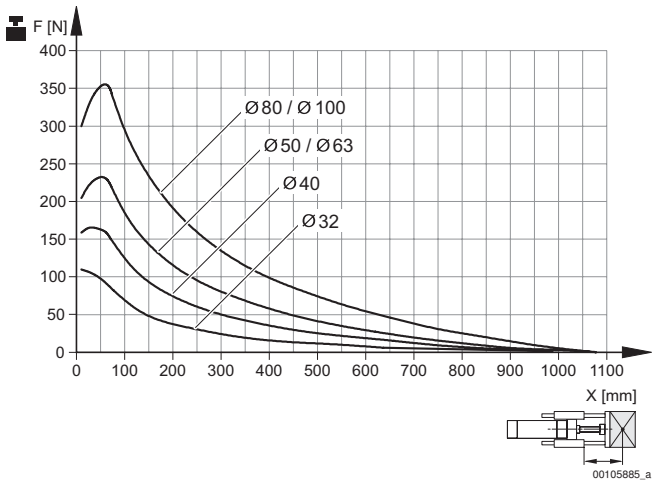
Useful load





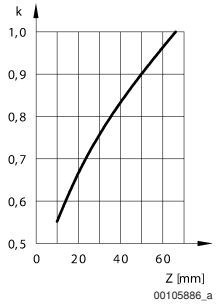
Service life $2x10^6$ m

ISO 15552, Series PRA
Accessories



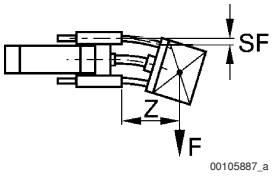
Service life $5x10^6$ m
F = Useful load, Z = Projection

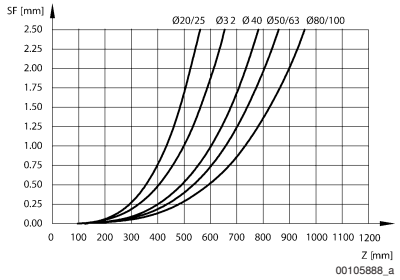
Reduction of useful load on short strokes



k=correction factor: normal=1; shock loaded=2
With a short stroke, the nominal load data determined from the diagram must be multiplied by the correction factor k.
These short-stroke adjustments are already included in the load diagram for a displacement of up to 60 mm.

Bending due to own load

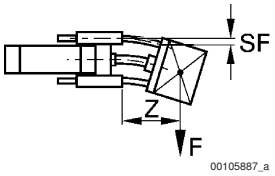


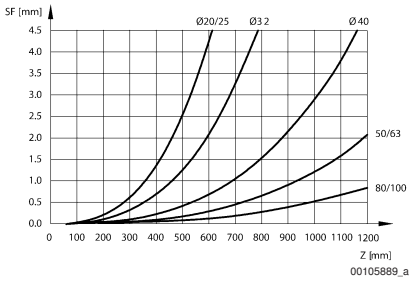


F = useful load (at the load center), SF = bending, Z = projection

ISO 15552, Series PRA
Accessories

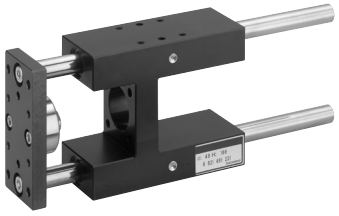
Bending due to 10 N load





F = useful load (at the load center), SF = bending, Z = projection

Guide unit, GH1
► Ø 32 - 100 mm ► Plain bearing ► for standard cylinder ISO 15552



Ambient temperature min./max.	-20 °C / 80 °C
Materials:	
Bearing housings	Aluminum, black anodized
Bearing type	Sintered bronze
Carrying plate	Aluminum, black anodized
Flexible coupling in carrying plate	Stainless steel
Guide rods	Stainless steel, smooth rolled

Suitable piston Ø		[mm]	32	40	50	63	80
Weight	0 mm stroke	[kg]	1.3	2.3	3.7	4.7	8.8
	10 mm stroke	[kg]	0.009	0.016	0.025	0.025	0.039

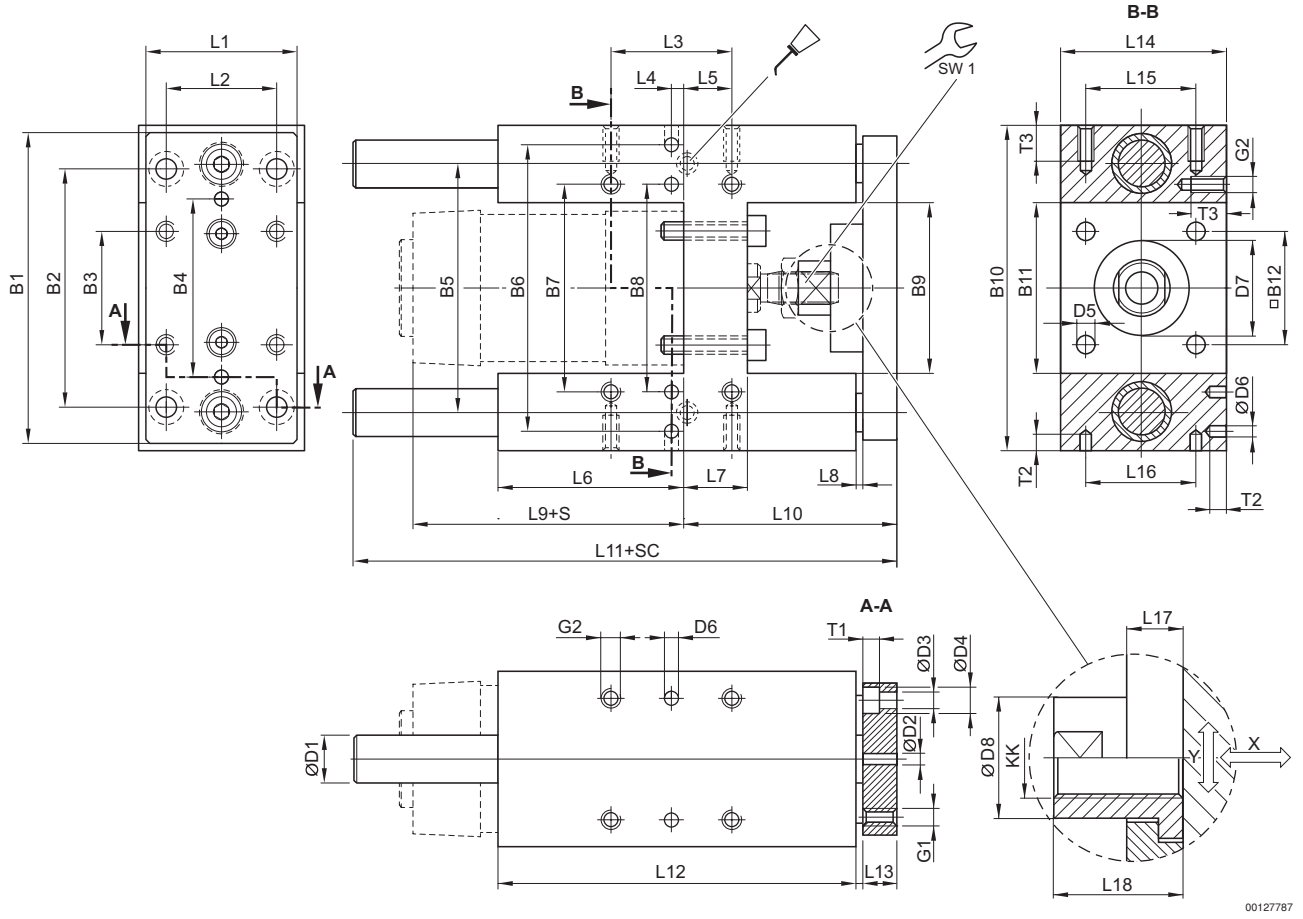
Suitable piston Ø		[mm]	100				
Weight	0 mm stroke	[kg]	11.1				
	10 mm stroke	[kg]	0.039				

ISO 15552, Series PRA
Accessories

	Suitable piston Ø [mm] Min. play (radial) [mm]	32 1.5	40 2	50 2	63 2	80 2
	Stroke 50	**0821401220**	**0821401230**	**0821401240**	**0821401280**	-
	100	**0821401221**	**0821401231**	**0821401241**	**0821401281**	**0821401260**
	160	**0821401222**	**0821401232**	**0821401242**	**0821401285**	-
	200	**0821401223**	**0821401233**	**0821401243**	**0821401282**	**0821401261**
	250	**0821401224**	**0821401234**	**0821401244**	0821401286	-
	320	**0821401225**	**0821401235**	**0821401245**	**0821401283**	**0821401262**
	400	**0821401226**	**0821401236**	**0821401246**	**0821401287**	-
	500	**0821401227**	**0821401237**	**0821401247**	0821401284	**0821401263**
	600	0821401228	0821401238	**0821401249**	0821401288	0821401264
	800	0821401229	0821401239	**0821401474**	0821401289	0821401265
	1000	0821401470	0821401472	0821401475	0821401290	0821401266
	1200	0821401471	0821401473	0821401476	0821401291	0821401267
	Suitable piston Ø [mm] Min. play (radial) [mm]	**100 2**				
	Stroke 50	-				
	100	**0821401270**				
	160	-				
	200	**0821401271**				
	250	-				
	320	0821401272				
	400	-				
	500	**0821401273**				
	600	0821401274				
	800	0821401275				
	1000	0821401276				
	1200	0821401277				

ISO 15552, Series PRA
Accessories

Ø 32 - 100 mm



S = stroke
SC = cylinder stroke
X = max. play (axial)
Y = min. play (radial)

Piston Ø	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
32	90	78	32.5	50 ±0,02	74	81 ±0,02	61	61 ±0,02	50.2	97	50.2
40	110	84	38	54 ±0,02	87	99 ±0,02	69	69 ±0,02	58.2	115	58.2
50	130	100	46.5	72 ±0,02	104	119 ±0,02	85	85 ±0,02	70.2	137	70.2
63	145	105	56.5	82 ±0,02	119	132 ±0,02	100	100 ±0,02	85.2	152	85.2
80	180	130	72	106 ±0,02	148	166 ±0,02	130	130 ±0,02	105.4	189	105.4
100	200	150	89	131 ±0,02	172	190 ±0,02	150	150 ±0,02	130.4	213	130.4

Piston Ø	B12	D1	D2	D3	D4	D5	D6	D7	D8	G1	G2	KK	L1
32	32.5	12	6 H7	6.6	11	6.6	6 H7	30 M8	14.5	M6	M6	M10x1,25	45
40	38	16	6 H7	6.6	11	6.6	6 H7	35 M8	18	M6	M6	M12x1,25	54
50	46.5	20	6 H7	9	15	9	6 H7	40 M8	24	M8	M8	M16x1,5	63
63	56.5	20	6 H7	9	15	9	6 H7	45 M8	24	M8	M8	M16x1,5	80
80	72	25	6 H7	11	18	11	6 H7	45 M8	30	M10	M10	M20x1,5	100
100	89	25	6 H7	11	18	11	6 H7	55 M8	30	M10	M10	M20x1,5	120

Piston Ø	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14
32	32.5	32.5	12	4.25	76	17	3	94	64	177.5	125	12	50

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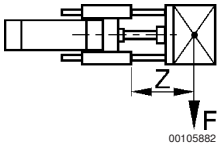
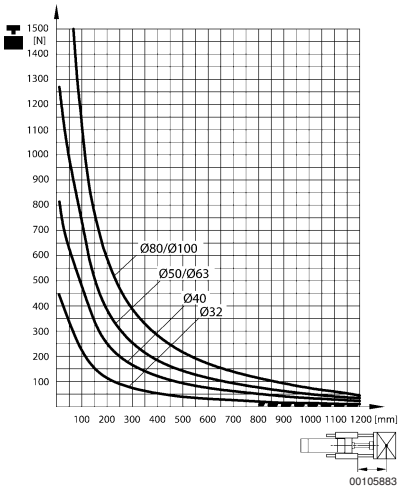
Accessories

Piston Ø	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14
40	38	38	8	11	81	21	3	105	74	192.5	140	12	58
50	46.5	46.5	4.5	18.75	79	26	3	106	89	205	150	15	70
63	56.5	56.5	13	15.25	111	26	3	121	89	237	182	15	85
80	72	72	15	21	128	34	3	128	110	280	215	20	105
100	89	89	20	24.5	128	39	3	138	115	280	220	20	130

Piston Ø	L15	L16	L17	L18	T1	T2	T3	SW1					
32	32.5	32,5 ±0,02	6	17	6.5	10	15	13					
40	38	38 ±0,02	14	22	6.5	10	15	15					
50	46.5	46,5 ±0,02	14	26	9	10	16	22					
63	56.5	56,5 ±0,02	14	26	9	10	16	22					
80	72	72 ±0,02	14	32	11	10	20	27					
100	89	89 ±0,02	14	32	11	10	20	27					

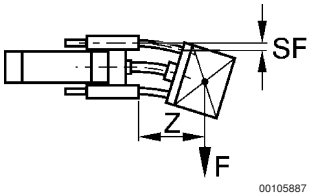
Useful load

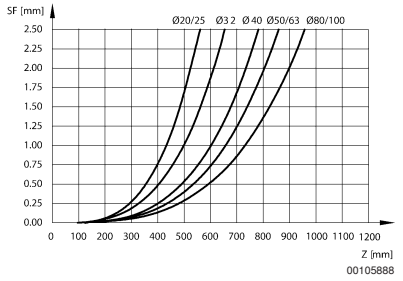




F = Useful load, Z = Projection

Bending due to own load

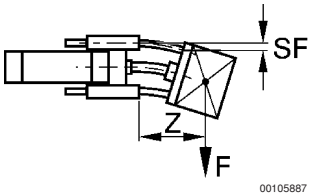


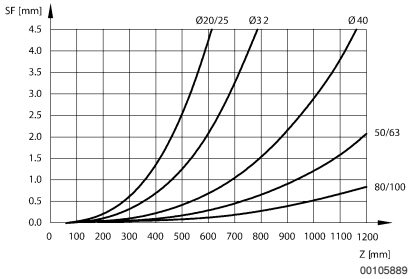


F = useful load (at the load center), SF = bending, Z = projection

ISO 15552, Series PRA
Accessories

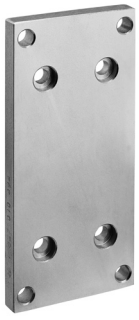
Bending due to 10 N load

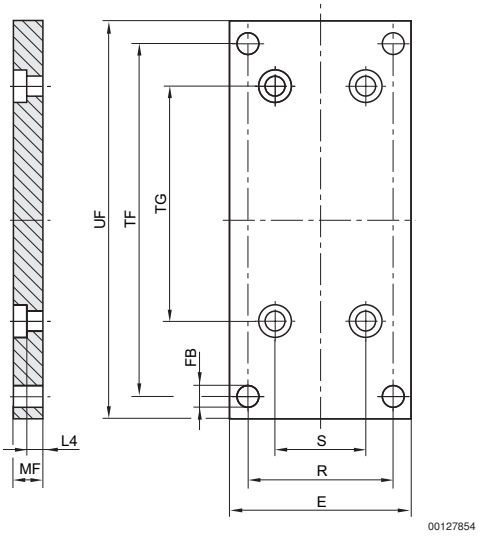




F = useful load (at the load center), SF = bending, Z = projection

Flange mounting
► U' version, for guide units, Ø 80 - 100 mm





Part No.	Ø	E	FB	L4	MF	R	S	TF	TG	UF	Material
1827010494	80	100	12	9	16	80	50	195	130	220	Steel
1827010495	100	120	14	9	16	95	--	217	150	245	Steel

Part No.	Surface											
1827010494	galvanized											
1827010495	galvanized											

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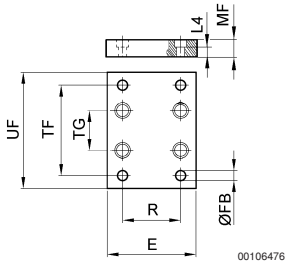
Accessories

Flange mounting
► for guide units, H' version, Ø 12 - 100 mm

00106403

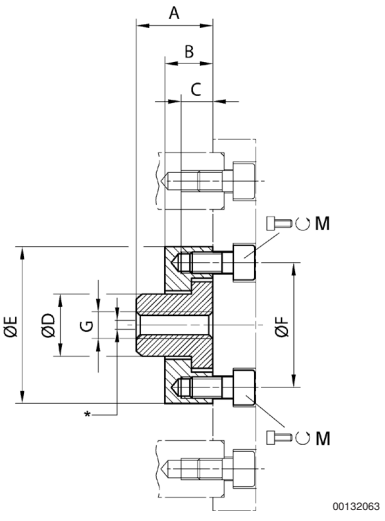


00106476

Part No.	Ø	E	Ø FB	L4	MF	R	TF	TG	UF	Material	Surface
1821038079	32	50	6.6	4.5	10	32.5	116	61	130	Steel	galvanized
1821038163	12/16	50	5.5	4.5	10	32.5	50	23	64	Steel	galvanized
1821038078	20/25	50	6.6	4.5	10	32.5	50	23	64	Steel	galvanized
1821038080	40	55	9	4.5	10	38	140	69	160	Steel	galvanized
1821038081	50	70	9	6	12	46.5	160	85	180	Steel	galvanized
1821038082	63	80	9	6	12	56.5	175	100	195	Steel	galvanized
1821038083	80	100	12	9	16	72	218	130	242	Steel	galvanized
1821038084	100	120	14	9	16	89	245	150	272	Steel	galvanized

Flexible coupling GU3 form C
► for guide units ► version 'U' and 'H', Ø12–63

00136409



00132063

* Radial joint from 2 - 2,5 mm
Scope of delivery: flexible coupling incl. mounting screws

Part No.	Ø	M	G	A	B	C	D	ØE	ØF
1827020170	12/16	2x M4x10	M6	18	7	7	10	□22	□15
1827020174	40	2x M6x12	M12x1,25	22	14	8	18	45	36
1827020175	50/63	4x M6x14	M16x1,5	26	14	8	24	54	45

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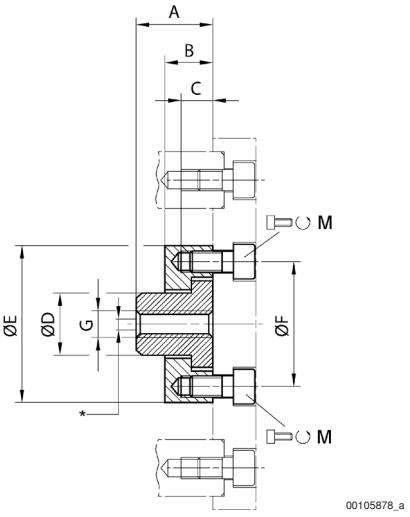
Part No.	Material										
1827020170	Stainless steel										
1827020174	Stainless steel										
1827020175	Stainless steel										

Flexible coupling GU3 form B
► for guide units ► H' version, Ø20–100

00106407



* Radial joint from 1,5 - 1,8 mm
Scope of delivery: flexible coupling incl. mounting screws

Part No.	Ø	M	G	A	B	C	D	ØE	ØF
1827020177	20	2x M5x12	M8	22	14	6	14.5	33	26
1827020178	25/32	2x M5x12	M10x1,25	17	14	6	14.5	33	26
1827020179	80/100	4x M6x20	M20x1,5	32	14	11.5	32	60	51

Part No.	Material										
1827020177	Stainless steel										
1827020178	Stainless steel										
1827020179	Stainless steel										

ISO 15552, Series PRA
Accessories

Locking unit, LU1
► Ø32 - 100 mm ► Hold: adjustable spring force, Release: compressed air

Function	Clamp with eccentric tappet
Working pressure min./max.	2 bar / 8 bar
Control pressure min./max.	-- / 8 bar
Ambient temperature min./max.	-20°C / +80°C
Medium temperature min./max.	-20°C / +80°C
Max. particle size	5 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Holding force	See table below
Materials:	
Housing	Aluminum, anodized
Cover	Die-cast aluminum

Technical Remarks

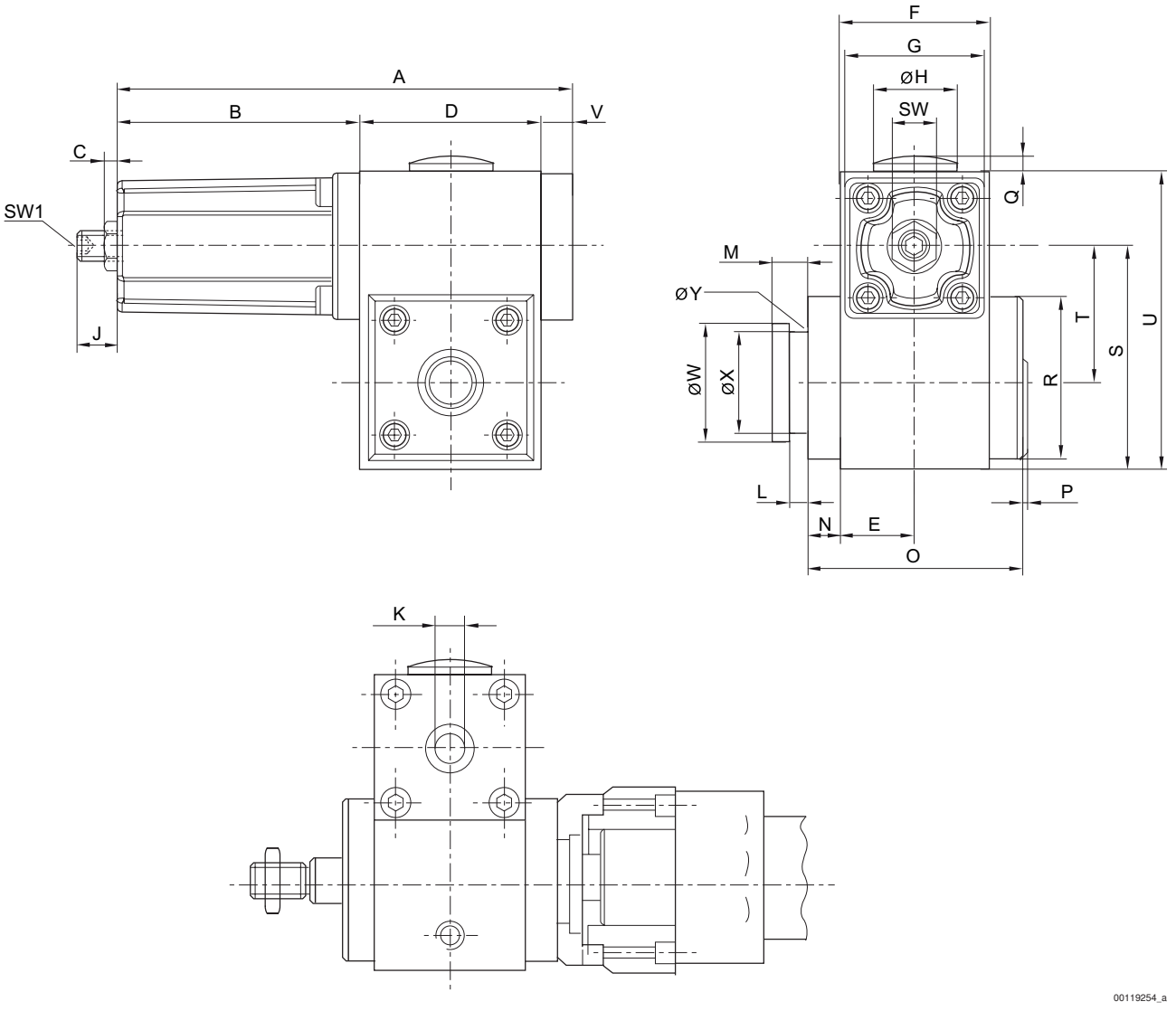
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Warning:
  The Locking unit may not be used for the following applications:
  - for dynamic holding
  - in or as safety equipment
- Locking unit may only be unlocked when turned off
- NOTE:
  The minimum control pressure is >= working pressure!
  The holding force is dependent on the set spring force.

	Piston Ø	suitable piston rod diameter	piston rod extension	Compressed air connection	Holding force	Weight	Part No.
					[N]		
	32	12	79	G 1/8	840	1.75	**0821401130**
	40	16	81		1100	1.75	**0821401131**
	50, 63	20	100		2700	3	**0821401132**
	80, 100	25	140		5800	8.8	**0821401133**

Holding force max.
Please order LU3, LU4, LU5 mounting elements separately as accessories.

ISO 15552, Series PRA
Accessories

Dimensions



Piston Ø	A	B	C	D	E	F	G	ØH	J	K	L	M	N
32	135	76	10	56	23	46	45	30	19	G 1/8	4.1	8	9
40	135	76	10	56	23	46	45	30	18	G 1/8	5.1	10	9
50, 63	169	90	10	69	30	60	55	30	17	G 1/8	5.1	10	9
80, 100	208	120	16.7	100	40	80	65	37.5	15	G 1/8	8.1	16	13

Piston Ø	O	P	Q	R	S	SW	SW1	T	U	V	ØW	ØX	ØY
32	65	3	2.5	50	69	15	5	41.9	92	10	29.9	24	3
40	65	3	2.5	50	69	15	5	40.5	92	10	39.9	30	3
50, 63	84	3	2.5	60	80	15	5	48	111	10	39.9	30	3
80, 100	118	3	2	90	119	24	8	72	155	10	54.9	40	5

ISO 15552, Series PRA
Accessories

Locking unit, LU1
► Ø32 - 100 mm ► hold: spring force, release: compressed air


00119253

Function	Clamp with eccentric tappet
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	-20°C / +80°C
Medium temperature min./max.	-20°C / +80°C
Max. particle size	5 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Holding force	See table below
Materials:	
Housing	Aluminum, anodized
Cover	Die-cast aluminum

Technical Remarks

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Warning:
  The Locking unit may not be used for the following applications:
  - for dynamic holding
  - in or as safety equipment
- Locking unit may only be unlocked when turned off

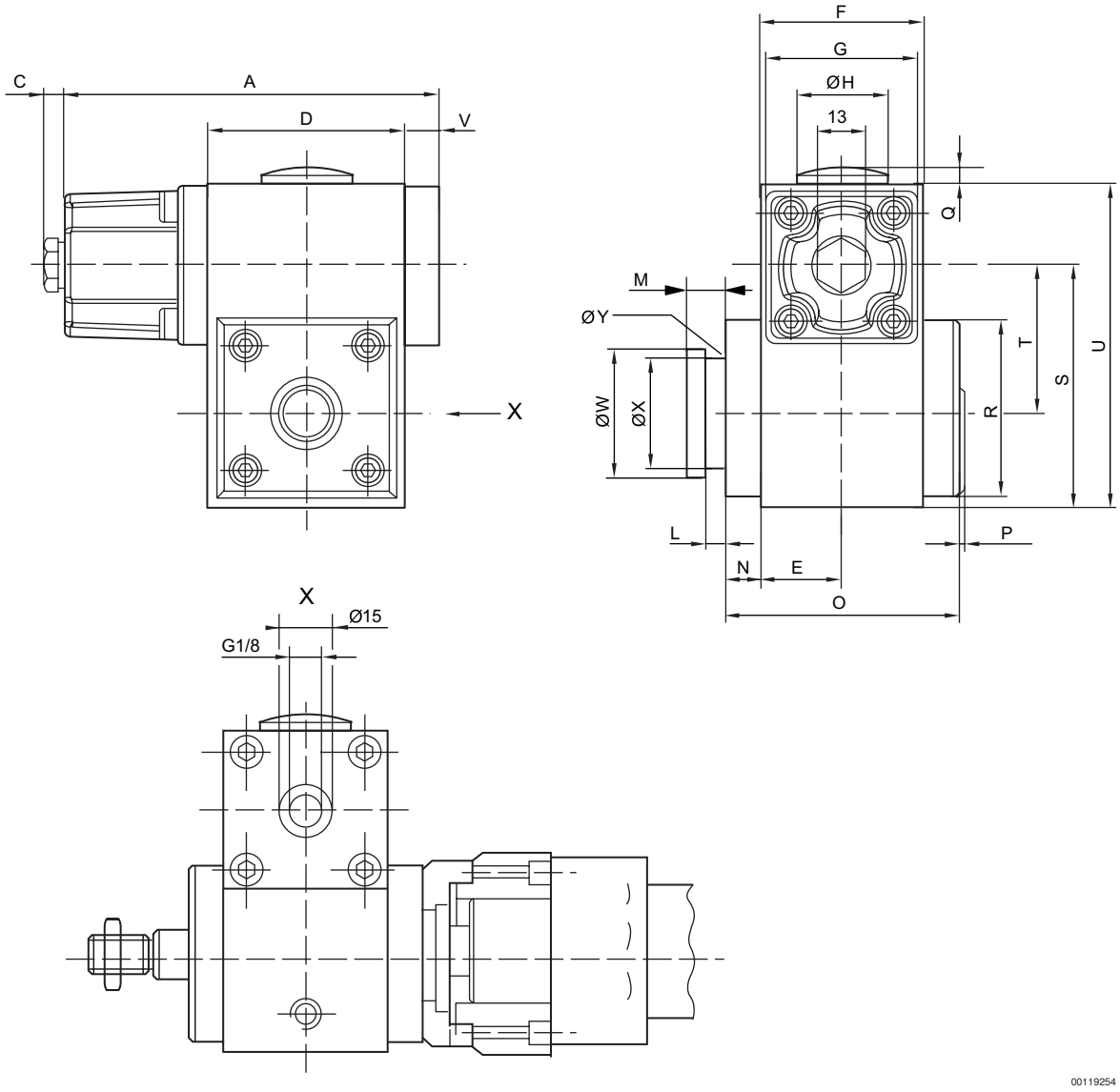
	Piston Ø	suitable piston rod diameter	piston rod extension	Compressed air connection	Working pressure min./max.	Control pressure min./max.	Holding force	Part No.
					[bar]	[bar]	[N]	
	32	12	79	G 1/8	4.5 / 8	4.5 / 8	740	R412003730
	40	16	81		4.5 / 8	4.5 / 8	1000	R412003731
	50, 63	20	100		4.5 / 8	4.5 / 8	2300	R412003732
	80, 100	25	140		4.5 / 8	4.5 / 8	4000	R412003733
	32	12	79		5.5 / 8	5.5 / 8	840	0821401134
	40	16	81		5.5 / 8	5.5 / 8	1100	0821401135
	50, 63	20	100		5.5 / 8	5.5 / 8	2700	**0821401136**
	80, 100	25	140		5.5 / 8	5.5 / 8	5800	**0821401137**

Part No.	Weight
R412003730	1.52
R412003731	1.5
R412003732	2.56
R412003733	7.7
0821401134	1.52
0821401135	1.5
0821401136	2.56
0821401137	7.7

Please order LU3, LU4, LU5 mounting elements separately as accessories.

ISO 15552, Series PRA
Accessories

Dimensions

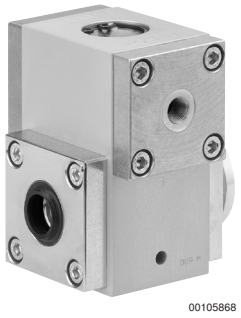


Piston Ø	A	C	D	E	F	G	Ø H	L	M	N	O	P	Q
32	106	6	56	23	46	45	30	4.1	8	9	65	3	2.5
40	106	6	56	23	46	45	30	5.1	10	9	65	3	2.5
50, 63	139.5	6	69	30	60	55	30	5.1	10	9	83.5	3	2.5
80, 100	176.5	6	100	40	80	65	37.5	8.1	16	13	118	3	2

Piston Ø	R	S	T	U	V	Ø W	Ø X	Ø Y					
32	50	68.5	41.9	91.5	10	29.9	24	3					
40	50	68.5	40.5	91.5	10	39.9	30	3					
50, 63	60	79.5	48	110	10	39.9	30	3					
80, 100	90	119	72	155	10	54.9	40	5					

ISO 15552, Series PRA
Accessories

Locking units, LU2
► Ø32 - 100 mm ► hold: compressed air, Release: compressed air



Function	Clamp with eccentric tappet
Working pressure min./max.	2 bar / 8 bar
Control pressure min./max.	-- / 8 bar
Ambient temperature min./max.	-20°C / +80°C
Medium temperature min./max.	-20°C / +80°C
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Holding force	See table below
Materials:	
Housing	Aluminum, anodized
Cover	Aluminum, anodized

Technical Remarks

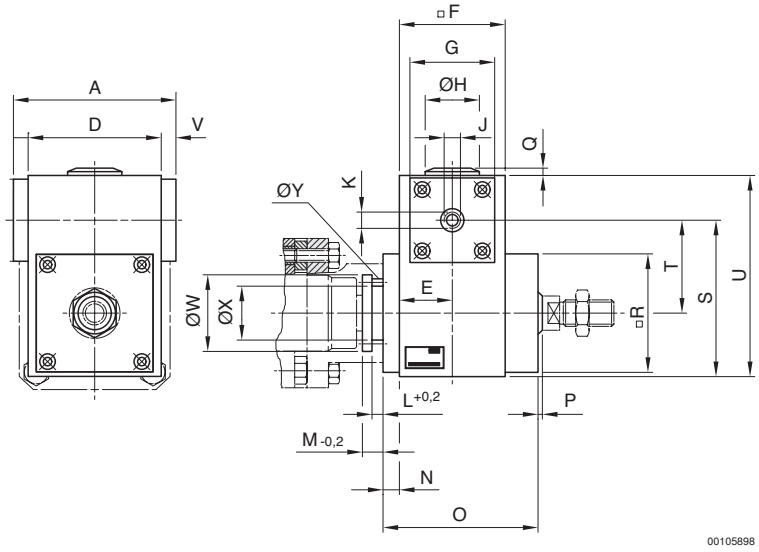
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Warning:
  The Locking unit may not be used for the following applications:
  - for dynamic holding
  - in or as safety equipment
- Locking unit may only be unlocked when turned off
- NOTE:
  The minimum control pressure is >= working pressure!

	Piston Ø	suitable piston rod diameter	piston rod extension	Compressed air connection	Holding force	Weight	Part No.
					[N]		
	32	12	79	G 1/8	840	1.25	**0821401140**
	40	16	81		1100	1.25	**0821401141**
	50, 63	20	100		2700	2.4	**0821401142**
	80, 100	25	140		5800	8	**0821401143**

Holding force max.
Please order LU3, LU4, LU5 mounting elements separately as accessories.

ISO 15552, Series PRA
Accessories

Dimensions



Piston Ø	A	B	D	E	F	G	Ø H	J	K	L	M	N	O
32	135	76	56	23	46	45	30	15	G 1/8	4.1	8	9	65
40	135	76	56	23	46	45	30	15	G 1/8	5.1	10	9	65
50, 63	169	90	69	30	60	55	30	15	G 1/8	5.1	10	9	84
80, 100	208	120	100	40	80	65	37.5	15	G 1/8	8.1	16	13	118

Piston Ø	P	Q	R	S	T	U	V	Ø W	Ø X	Ø Y			
32	3	2.5	50	69	41.9	92	10	29.9	24	3			
40	3	2.5	50	69	40.5	92	10	39.9	30	3			
50, 63	3	2.5	60	80	48	111	10	39.9	30	3			
80, 100	3	2	90	119	72	155	10	54.9	40	5			

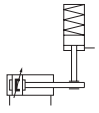
Holding unit, HU1
► Ø32 - 100 mm ► hold: spring force, release: compressed air

Function	Hold with clamping jaws
Working pressure min./max.	4 bar / 8 bar
Control pressure min./max.	-- / 8 bar
Ambient temperature min./max.	-10 °C / +60 °C
Medium temperature min./max.	-10 °C / +60 °C
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Holding force	See table below
Materials:	
Housing	Aluminum, black anodized

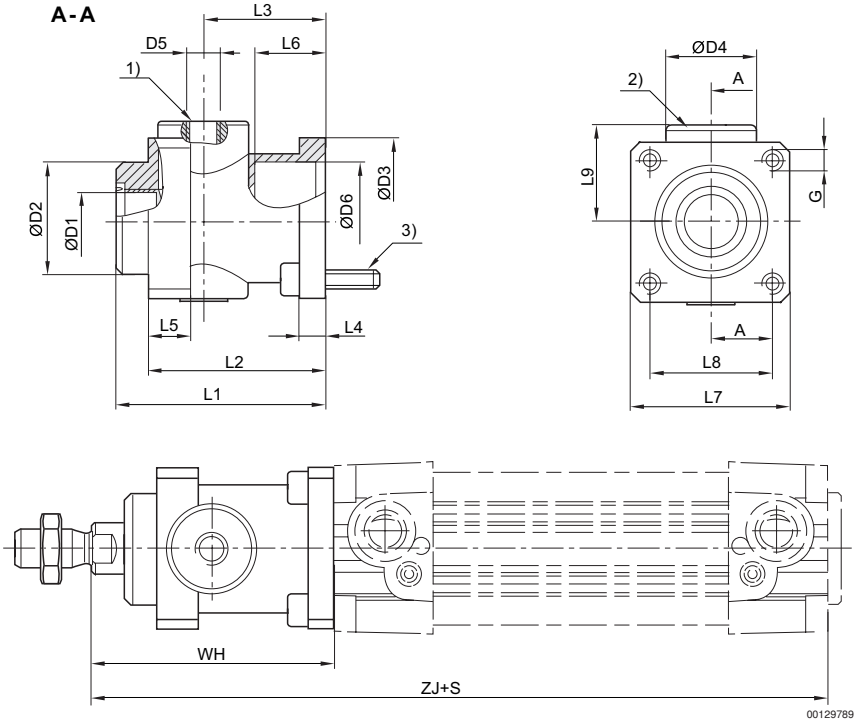
ISO 15552, Series PRA
Accessories

Technical Remarks

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Warning:
  The holding unit may not be used for the following applications:
  - for dynamic holding
  - in or as safety equipment
- Holding unit may only be unlocked when turned off
- NOTE:
  The minimum control pressure is >= working pressure!
  The holding force is dependent on the set spring force.

	Piston Ø	suitable piston rod diameter	piston rod extension	Compressed air connection	Holding force	Weight	Part No.
					[N]		
	32	12	42	M5	650	0.2	**0821401165**
	40	16	45	G 1/8	1100	0.27	**0821401166**
	50	20	57	G 1/8	1600	0.57	**0821401167**
	63	20	57	G 1/8	2500	0.8	**0821401168**
	80	25	77	G 1/8	4000	1.85	**0821401169**
	100	25	77	G 1/8	6300	2.9	**0821401170**

Dimensions



1) air connection
2) Holding cartridge
3) 4 mounting screws
S = stroke

ISO 15552, Series PRA
Accessories

Piston Ø	A	Ø D1	Ø D2	Ø D3	Ø D4	D5	L1	L2	L3	L4	L5	L6	L7
32	16,25	12	30	35	25	M5	58	48	34	8	13	20.5	45
40	19	16	35	40	28	G 1/8	65	55	38	8	13	22.5	50
50	23,25	20	40	50	35	G 1/8	82	70	48	15	16	29.5	60
63	28,25	20	45	60	38	G 1/8	82	70	49.5	15	16	29.5	70
80	36	25	45	80	48	G 1/8	110	90	61	18	20	35	90
100	44,5	25	55	100	58	G 1/8	115	100	69	18	20	–	105

Piston Ø	L8	L9	G	WH	ZJ								
32	32.5	25.5	M6	68	162								
40	38	30	M6	75	180								
50	46.5	36	M8	94	200								
63	56.5	40	M8	94	215								
80	72	50	M10	123	251								
100	89	58	M10	128	266								

Brake, LU6
► Ø32 - 125 mm ► Hold: non-adjustable spring force, Release: compressed air

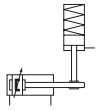
Version	Clamping jaw lock
Function	Hold with clamping jaws
release pressure	4 bar / 10 bar
Ambient temperature min./max.	-25°C / +80°C
Medium temperature min./max.	-25°C / +80°C
Medium	Compressed air
Max. particle size	5 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Holding force	See table below
Materials:	
Housing	Aluminum, anodized
Seal	Nitrile butadiene rubber
Scraper	Nitrile butadiene rubber

Technical Remarks

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Warning:
  The brake may not be used for the following applications:
  - for dynamic holding
  - in or as safety equipment
- NOTE:
  Before pressurizing the lock, make sure that there is a balance of forces at the piston on the drive cylinder. Please see the operating instructions for further information relevant for safety.

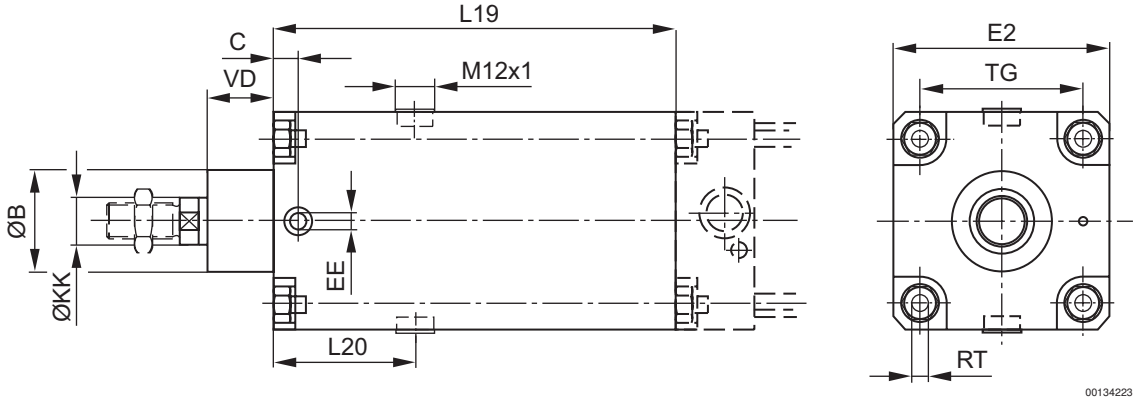
ISO 15552, Series PRA

Accessories

	Piston Ø	suitable piston rod diameter	piston rod extension	Compressed air connection	Holding force	Weight	Part No.
					[N]		
	32	12	125	G 1/8	760	0.8	5230996402
	40	16	125	G 1/8	1200	1	5231996402
	50	20	145	G 1/8	1900	1.8	5232996402
	63	20	165	G 1/8	3000	2.8	5233996402
	80	25	185	G 1/8	5000	5.5	5234996402
	100	25	220	G 1/8	8000	9.5	5235996402
	125	32	220	G 1/4	12000	13.8	5236996402

Holding force at 0 bar

Dimensions

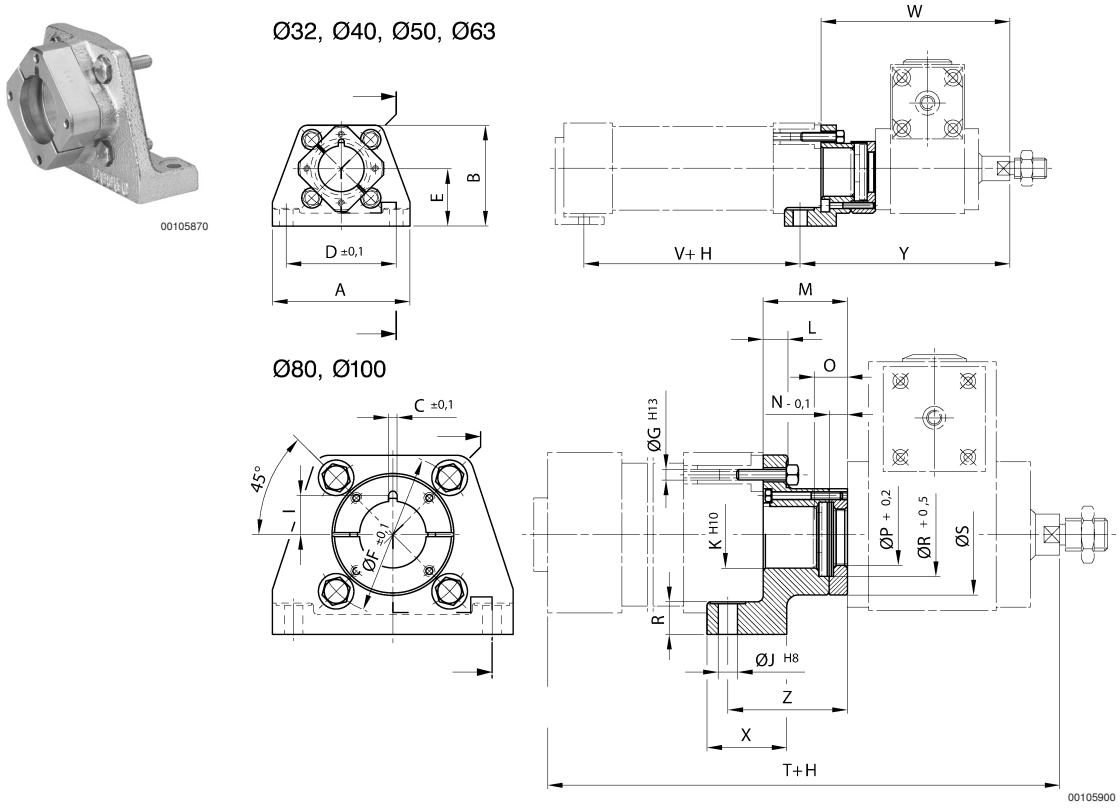


Piston Ø	ØB d11	C	EE	E2	L19	L20	ØKK e8-h9	TG	RT	VD			
32	30	9	G1/8	48	125	44	12	32,5	M6	19			
40	35	9	G1/8	53	125	44	16	38	M6	21			
50	40	9	G1/8	63	145	49	20	46,5	M8	28			
63	45	10	G1/8	75	165	52	20	56,5	M8	28			
80	45	11	G1/8	98	185	61.5	25	72	M10	34			
100	55	13	G1/8	118	220	68	25	89	M10	37			
125	60	13	G1/4	142	220	75	32	110	M12	45			

ISO 15552, Series PRA

Accessories

Foot mounting, LU4 for cylinders with locking units



H = stroke

Part No.	Piston Ø	A	B	C ±0,1	D ±0,1	E	Ø F	Ø G H13	I	J H8	K H10	L
1827001520	32	79	57	3.6	65	32	46	6.6	13.2	6.6	30	7
1827001521	40	90	64	3.6	75	36	54	6.6	18.2	6.6	35	9.5
1827001522	50	110	80	3.6	90	45	66	8.4	18.2	9	40	11
1827001526	63	120	90	3.6	100	50	80	8.4	18.2	9	45	11
1827001524	80	153	113	6	128	63	102	10.5	24.5	11	45	15
1827002152	100	176	133	6	148	71	126	10.5	24.6	11	55	15

Part No.	M	N	O	Ø P	R	Ø R	Ø S	T	V	W	X	Y
1827001520	27	3.9	–	24.2	9	30	46.5	199	68	105	32	118
1827001521	33	4.9	13	30.2	11	40	55.5	216	79	111	32	124
1827001522	38	4.9	–	30.2	15	40	66	243	74	137	41	153
1827001526	38	4.9	–	30.2	15	40	71	258	89	137	41	153
1827001524	52	7.9	18	40.2	19.5	55	75	314	84	186	50	208
1827002152	57	7.9	–	40.2	19.5	55	80	329	94	191	50	213

Part No.	Z	Material										
1827001520	40	Nodular graphite iron										
1827001521	46	Nodular graphite iron										

The locking unit can be rotated by 4x90°.

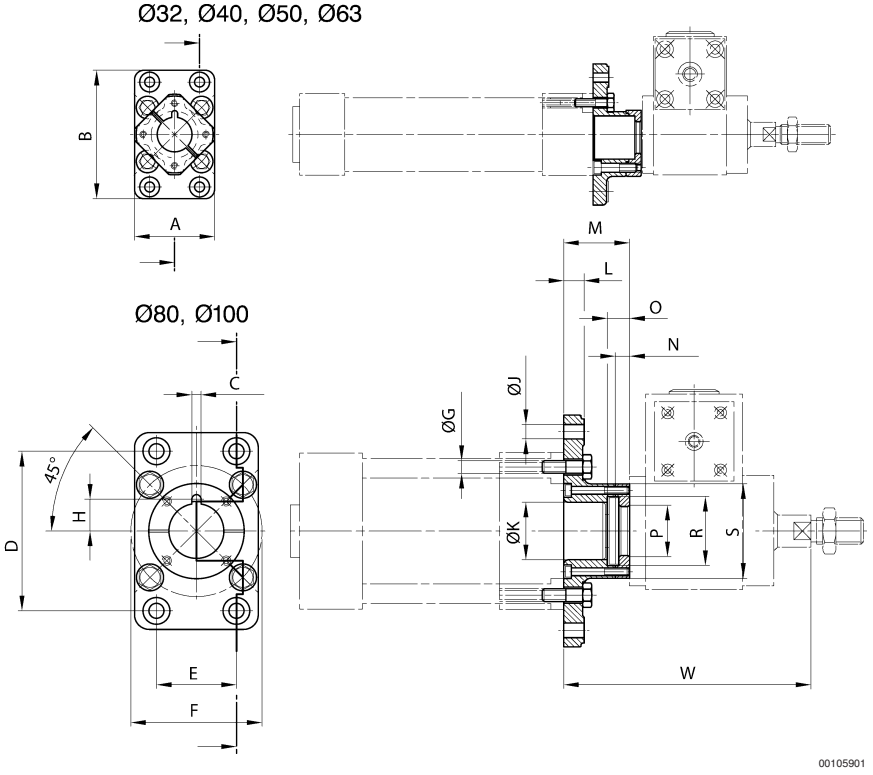
ISO 15552, Series PRA
Accessories

Part No.	Z	Material										
1827001522	54	Nodular graphite iron										
1827001526	54	Nodular graphite iron										
1827001524	74	Nodular graphite iron										
1827002152	79	Nodular graphite iron										

The locking unit can be rotated by 4x90°.

Flange mounting, LU5 for cylinders with locking units

00105871



00105901

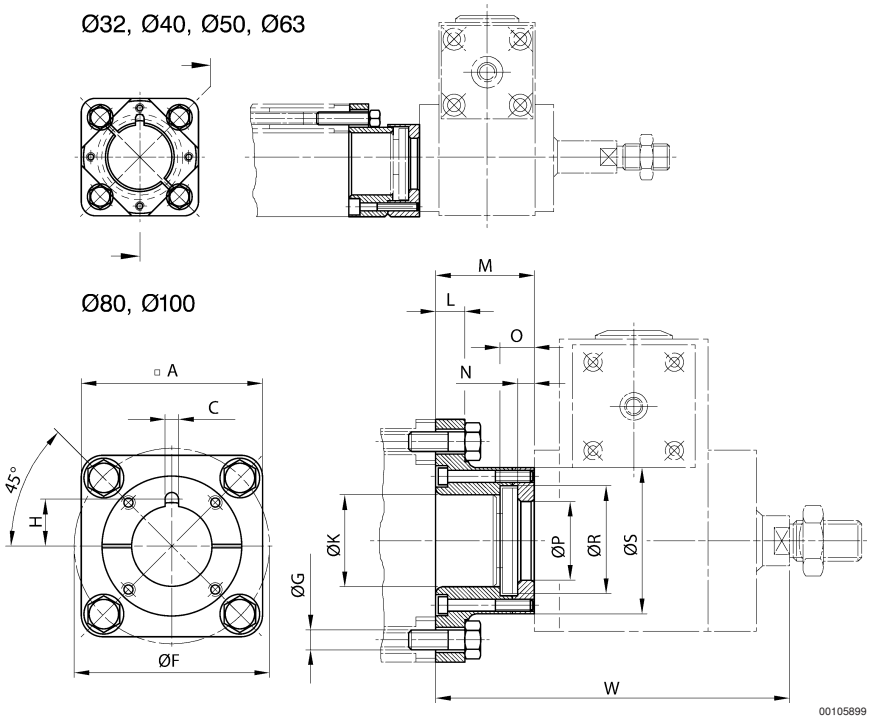
Part No.	Piston Ø	A	B	C ±0,1	D ±0,1	E ±0,1	Ø F ±0,2	Ø G H13	H	Ø J H13	Ø K H10	L
1827001512	32	50	79	3.6	64	32	46	6.6	13.2	7	30	8
1827001513	40	56	91	3.6	72	36	54	6.6	18.2	9	35	10
1827001514	50	70	111	3.6	90	45	66	8.4	18.2	9	40	12
1827001503	63	80	120	3.6	100	50	80	8.4	18.2	9	45	12
1827001516	80	100	153	6	126	63	102	10.5	24.5	12	45	16
1827001517	100	120	178	6	150	75	126	10.5	24.6	14	55	16

ISO 15552, Series PRA
Accessories

Part No.	M	N ±0,1	O 1)	Ø P +0,2	Ø R +0,5	Ø S	W	Material				
1827001512	27	3.9	8	24.2	33	50	105	Nodular graphite iron				
1827001513	33.3	4.9	10	30.2	40	55.5	111	Nodular graphite iron				
1827001514	38.3	4.9	10	30.2	40	66	137	Nodular graphite iron				
1827001503	38.3	4.9	10	30.2	40	71	137	Nodular graphite iron				
1827001516	52	7.9	16	40.2	55	75	186	Nodular graphite iron				
1827001517	57	7.9	16	40.2	55	80	191	Nodular graphite iron				

1) Min.

Mounting flange, LU3 for cylinders with locking units



screws included in scope of delivery

Part No.	Piston Ø	A	C +0,1	Ø F ±0,2	G H13	H	Ø K H10	L	M	N -0,1	O 1)	Ø P +0,2
1827001504	32	50	3.6	46	6.6	13.2	30	7	27.2	3.9	8	24.2
1827001505	40	57	3.6	54	6.6	18.2	35	9.5	33.3	4.9	10	30.2
1827001506	50	68	3.6	66	8.4	18.2	40	11	38.3	4.9	10	30.2
1827001508	63	75	3.6	80	8.4	18.2	45	11	38.3	4.9	10	30.2
1827001433	80	95	6	102	10.5	24.5	45	15	52	7.9	16	40.2
1827001434	100	115	6	126	10.5	24.6	55	15	57	7.9	16	40.2

ISO 15552, Series PRA
Accessories

Part No.	Ø R +0,5	Ø S	W	Material								
1827001504	33	46.5	105	Nodular graphite iron								
1827001505	40	55.5	111	Nodular graphite iron								
1827001506	40	66	137	Nodular graphite iron								
1827001508	40	71	137	Nodular graphite iron								
1827001433	55	75	186	Nodular graphite iron								
1827001434	55	80	191	Nodular graphite iron								

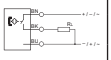
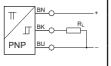
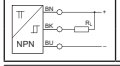
The locking unit can be rotated by 4x90°.
1) Min.

ISO 15552, Series PRA
Accessories

Sensor, Series ST6
► 6 mm groove ► with cable ► without wire end ferrule, tin-plated

00112027_2

Ambient temperature min./max.	-25 °C / +70 °C
Protection class according to EN 60529:2000	IP 65IP 67
Switching point precision [mm]	±0,1
Switching capacity	3 W / 3 VA
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide
Cable	Polyurethane

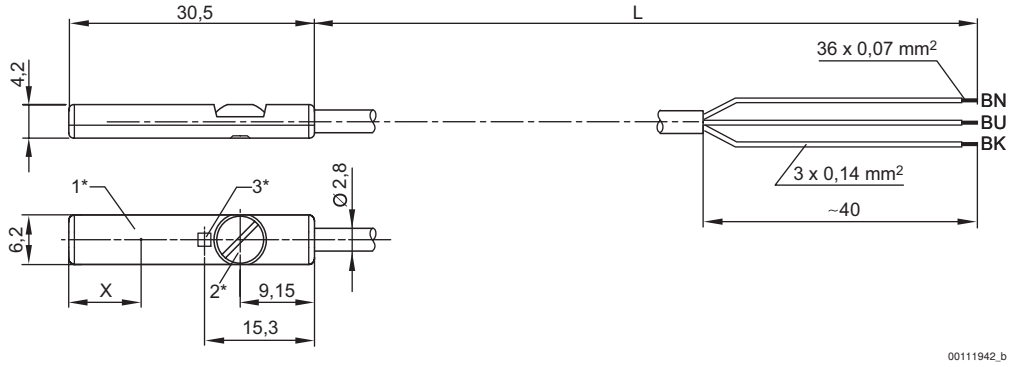
	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	3 5 10	10 / 30	10 / 30	0,13	0,13	**0830100629** **0830100630** **R412004575**
	electronic PNP	3 5 10	10 / 30	-	0.1	0.1	**0830100631** **0830100632** **R412004576**
	electronic NPN	3 5	10 / 30	-	0.1	-	**0830100633** **0830100634**

Part No.	Voltage drop U at Imax	Protective resistor for reed	Max. switching frequency	Operating current, not switched	Operating current, switched	LED	Note
	[V]	[Ω]	[kHz]	[mA]	[mA]		
0830100629 **0830100630** **R412004575**	I*Rs	15	< 0,3	-	< 10	Yellow	1)
0830100631 **0830100632** **R412004576**	≤ 2,5	-	< 1,0	< 20	< 30	Yellow	2)
0830100633 **0830100634**	≤ 2,5	-	< 1,0	< 20	< 30	Yellow	2)

1) short circuit protected
2) short circuit resistant; short circuit protected
interfaces: without wire end ferrule, tin-plated
UL (Underwriters Laboratories)

ISO 15552, Series PRA
Accessories

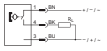
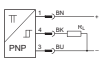
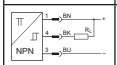
Dimensions



1* = switching point 2* = clamping screw 3* = LED
L = cable length
BN = brown, BK = black, BU = blue
X = electronic: 6 mm, Reed: 10 mm

Sensor, Series ST6
► 6 mm groove ► with cable ► Plug, M8, 3-pin, with knurled screw

Certificates	UL (Underwriters Laboratories)
Ambient temperature min./max.	-25°C / +70°C
Protection class according to EN 60529:2000	IP 65IP 67
Switching point precision [mm]	±0,1
Switching capacity	3 W / 3 VA
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide

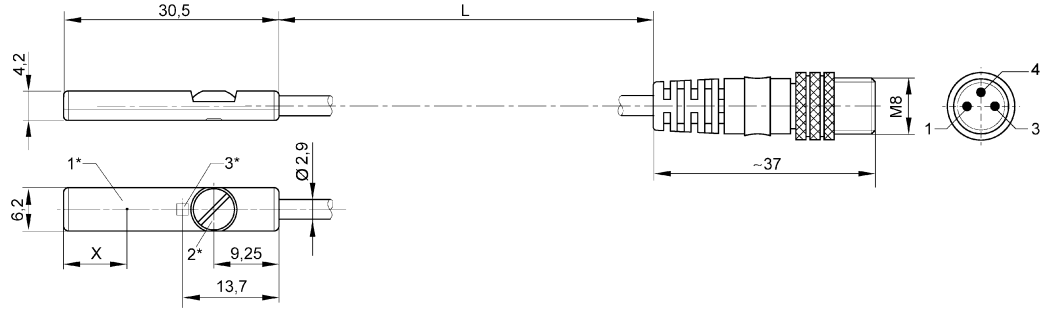
	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	0.3 0.5	10 / 30	10 / 30	0,13	0,13	**0830100434** **0830100436**
	electronic PNP	0.3 0.3 0.5	10 / 30	-	0.1	0.1	**0830100435** **R412004762** **0830100437**
	electronic NPN	0.3	10 / 30	-	0.1	-	0830100431

ISO 15552, Series PRA
Accessories

Part No.	Voltage drop U at Imax	Protective resistor for reed	Max. switching frequency	Operating current, not switched	Operating current, switched	Material Cable	Note
	[V]	[Ω]	[kHz]	[mA]	[mA]		
0830100434 **0830100436**	I*Rs	15	< 0,3	-	< 10	Polyurethane	1)
0830100435 **R412004762** **0830100437**	≤ 2,5	-	< 1,0	< 20	< 30	Polyurethane Polyvinyl chloride Polyurethane	2)
0830100431	≤ 2,5	-	< 1,0	< 20	< 30	Polyurethane	2)

1) short circuit protected
2) short circuit resistant; short circuit protected
interfaces: Plug; M8; 3-pin; with knurled screw

Dimensions

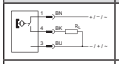
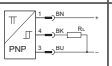
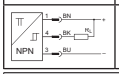


1* = switching point 2* = clamping screw 3* = LED
L = cable length
X = electronic: 6 mm, Reed: 10 mm
Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Sensor, Series ST6
► 6 mm groove ► with cable ► Plug, M8, 3-pin

Certificates	UL (Underwriters Laboratories)
Ambient temperature min./max.	-25°C / +70°C
Protection class according to EN 60529:2000	IP 65IP 67
Switching point precision [mm]	±0,1
Switching capacity	3 W / 3 VA
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide
Cable	Polyurethane

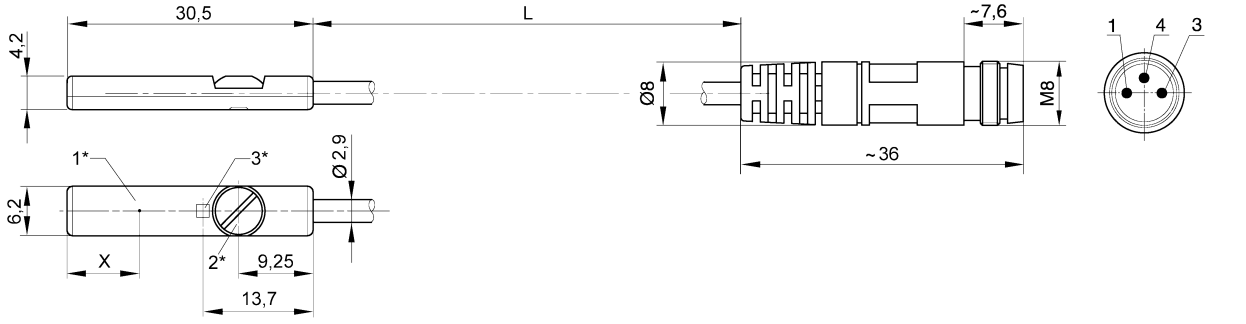
ISO 15552, Series PRA
Accessories

	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	0.3	10 / 30	10 / 30	0,13	0,13	0830100488
	electronic PNP	0.3	10 / 30	-	0.1	0.1	0830100489
	electronic NPN	0.3	10 / 30	-	0.1	-	0830100430

Part No.	Voltage drop U at Imax	Protective resistor for reed	Max. switching frequency	Operating current, not switched	Operating current, switched	Note
	[V]	[Ω]	[kHz]	[mA]	[mA]	
0830100488	I*Rs	15	< 0,3	-	< 10	1)
0830100489	≤ 2,5	-	< 1,0	< 20	< 30	2)
0830100430	≤ 2,5	-	< 1,0	< 20	< 30	2)

1) short circuit protected
2) short circuit resistant; short circuit protected
interfaces: Plug; M8; 3-pin

Dimensions

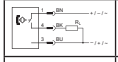
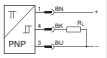


1* = switching point 2* = clamping screw 3* = LED
L = cable length
X = electronic: 6 mm, Reed: 10 mm
Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

ISO 15552, Series PRA
Accessories

Sensor, Series ST6
► 6 mm groove ► with cable ► Plug, M12, 3-pin, with knurled screw

Certificates	UL (Underwriters Laboratories)
Ambient temperature min./max.	-25 °C / +70 °C
Protection class according to EN 60529:2000	IP 65IP 67
Switching point precision [mm]	±0,1
Switching capacity	3 W / 3 VA
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide
Cable	Polyurethane

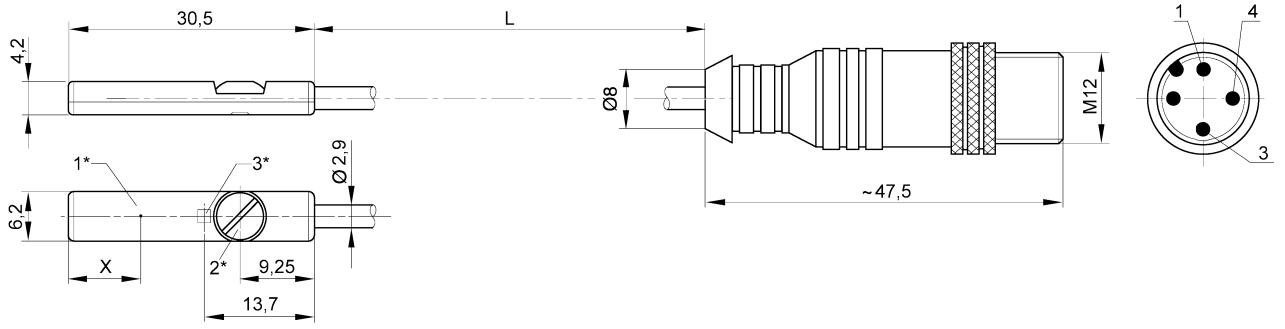
	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	0.3	10 / 30	10 / 30	0,13	0,13	0830100432
	electronic PNP	0.3	10 / 30	-	0.1	-	0830100433

Part No.	Voltage drop U at Imax	Protective resistor for reed	Max. switching frequency	Operating current, not switched	Operating current, switched	Note
	[V]	[Ω]	[kHz]	[mA]	[mA]	
0830100432	I*Rs	15	< 0,3	-	< 10	1)
0830100433	≤ 2,5	-	< 1,0	< 20	< 30	2)

1) short circuit protected
2) short circuit resistant; short circuit protected
interfaces: Plug; M12; 3-pin; with knurled screw

ISO 15552, Series PRA
Accessories

Dimensions



00111942_c

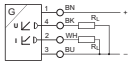
1* = switching point 2* = clamping screw 3* = LED
L = cable length
X = PNP: 6 mm, reed: 10 mm
Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Sensors, Series SM6
► 6 mm groove ► with cable ► without wire end ferrule, tin-plated ► Distance measuring sensor

00133722

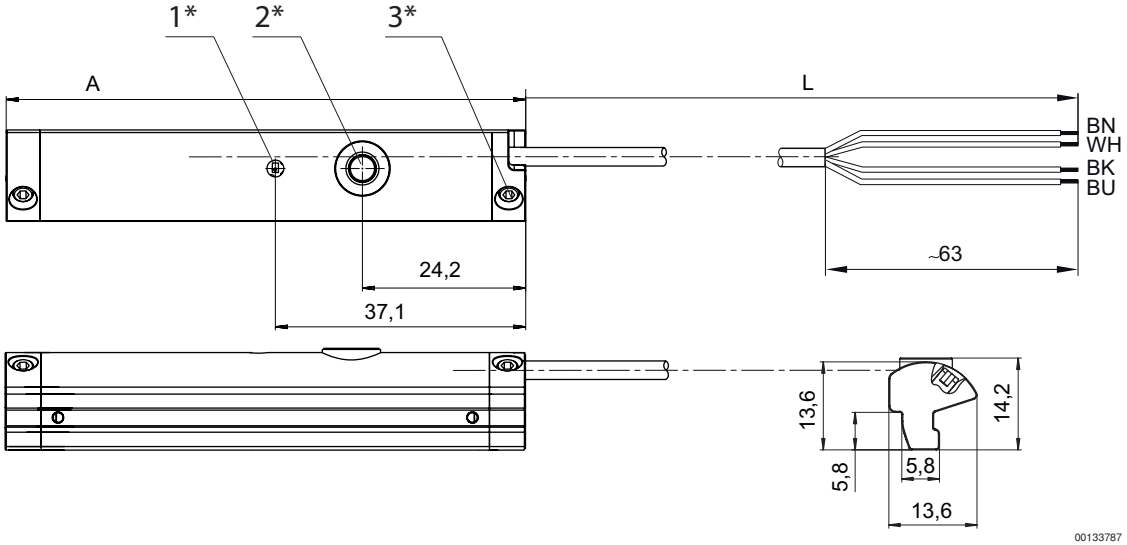
Ambient temperature min./max.	-20°C / +70°C
Protection class according to EN 60529:	IP 67
Output signal	1x current and 1x voltage
Nominal current, actuated state mA	< 20
Nominal current, idle state mA	< 20
sampling interval	0,5 ms
Resolution	0,05 mm
Repetitive precision	0.1 mm
Linearity	0,3 mm
Max. stroke speed	3 m/s
Display	LED
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide, fiber-glass reinforced
Cable	Polyurethane

ISO 15552, Series PRA
Accessories

	Cable length L	Measurement range max.	DC operating voltage min./max.	Voltage signal	Current signal	Part No.
	[m]	[mm]	[V]	[V]	[mA]	
	2	32	15 / 30	0 - 10 V DC	4 - 20 mA	R412010141
		64				R412010143
		96				R412010262
		128				R412010264

interfaces: without wire end ferrule, tin-plated
short circuit resistant; short circuit protected; Overload protection

Dimensions



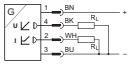
1* = LED 2* = teach-in button 3* = M3x11 threaded pin
L = cable length
(1) BN=brown (2) WH=white (3) BU=blue (4) BK=black
Pin assignment: 1 = (+), 2 = (OUT 1) 3 = (GND), 4 = (OUT 2), EN 60947-5-7

Part No.	A											
R412010141	45											
R412010143	77											
R412010262	45											
R412010264	141											

ISO 15552, Series PRA
Accessories

Sensors, Series SM6
► 6 mm groove ► with cable ► Plug, M8x1, 4-pin, with knurled screw ► Distance measuring sensor

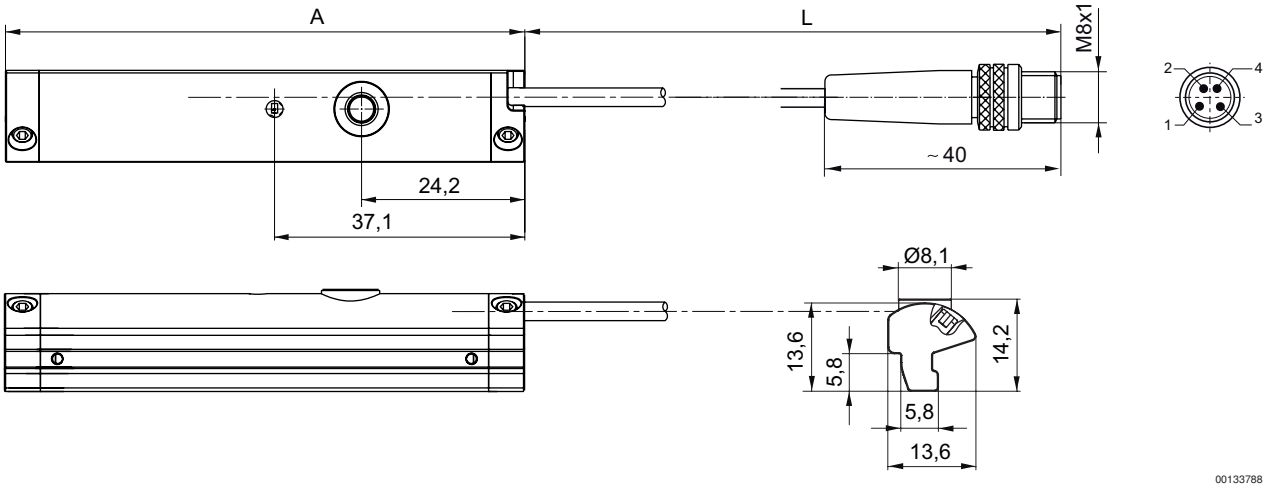
Ambient temperature min./max.	-20 °C / +70 °C
Protection class according to EN 60529:	IP 67
Output signal	1x current and 1x voltage
Nominal current, actuated state mA	< 20
Nominal current, idle state mA	< 20
sampling interval	0,5 ms
Resolution	0,05 mm
Repetitive precision	0.1 mm
Linearity	0,3 mm
Max. stroke speed	3 m/s
Display	LED
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide, fiber-glass reinforced
Cable	Polyurethane

	Cable length L	Measurement range max.	DC operating voltage min./max.	Voltage signal	Current signal	Part No.
	[m]	[mm]	[V]	[V]	[mA]	
	0.3	32	15 / 30	0 - 10 V DC	4 - 20 mA	R412010142
		64				R412010144
		96				R412010263
		128				R412010265

interfaces: Plug; M8x1; 4-pin; with knurled screw
short circuit resistant; short circuit protected; Overload protection

ISO 15552, Series PRA
Accessories

Dimensions



1* = LED 2* = teach-in button 3* = M3x11 threaded pin
L = cable length
Pin assignment: 1 = (+), 2 = (OUT 1) 3 = (GND), 4 = (OUT 2), EN 60947-5-7

Part No.	A											
R412010142	45											
R412010144	77											
R412010263	45											
R412010265	141											

Sensor, Series ST8
► 8 mm groove ► with cable ► without wire end ferrule, tin-plated

P322_194_2

Ambient temperature min./max.	-25 °C / +75 °C
Protection class according to EN 60529:2000	IP 65IP 67
Switching point precision [mm]	±0,1
Vibration resistance	10 - 55 Hz, 1,5 mm
Materials:	
Housing	Polyamide
Cable	Polyvinyl chloride

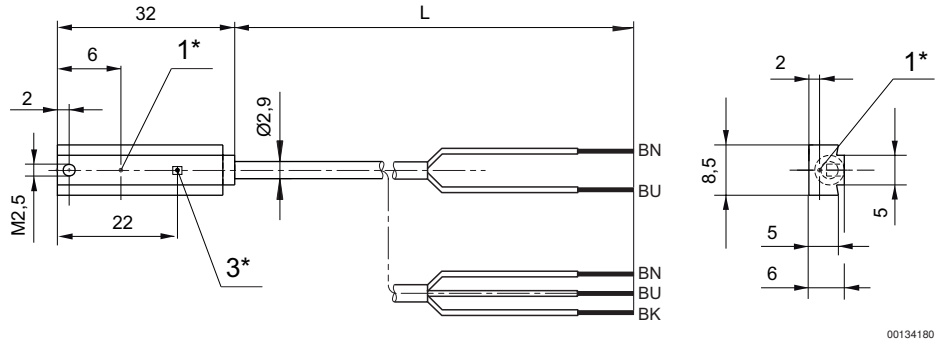
	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	2.5	10 / 30	-- / 240	-	-	**2750132310**
		10		12 / 240	0.1	0,13	**2750152310**
	electronic PNP	2.5	10 / 30	-	0,15	-	**2750131110**
		10					**2750151110**

ISO 15552, Series PRA
Accessories

Part No.	Voltage drop U at Imax	Shock resistance max.	Note
	[V]		
2750132310	≤ 3,0	-	2)
2750152310	I*Rs	30 g / 11 ms	1); 2)
2750131110 **2750151110**	≤ 2,0	30 g	3)

1) switching capacity: 3 W / 3 VA
2) short circuit protected
3) short circuit resistant; short circuit protected
interfaces: without wire end ferrule, tin-plated

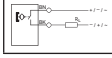
Dimensions



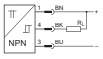
1* = switching point
3* = LED
L = cable length
BN = brown, BK = black, BU = blue

Sensor, Series ST8
► 8 mm groove ► with cable ► Plug, M8, 3-pin

Ambient temperature min./max.	-25°C / +75°C
Protection class according to EN 60529:2000	IP 65IP 67
Switching point precision [mm]	±0,1
Vibration resistance	10 - 55 Hz, 1,5 mm
Shock resistance	30 g
Materials:	
Housing	Polyamide
Cable	Polyurethane

	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	0.3	10 / 30	3 / 30	0.1	0,15	2750111320

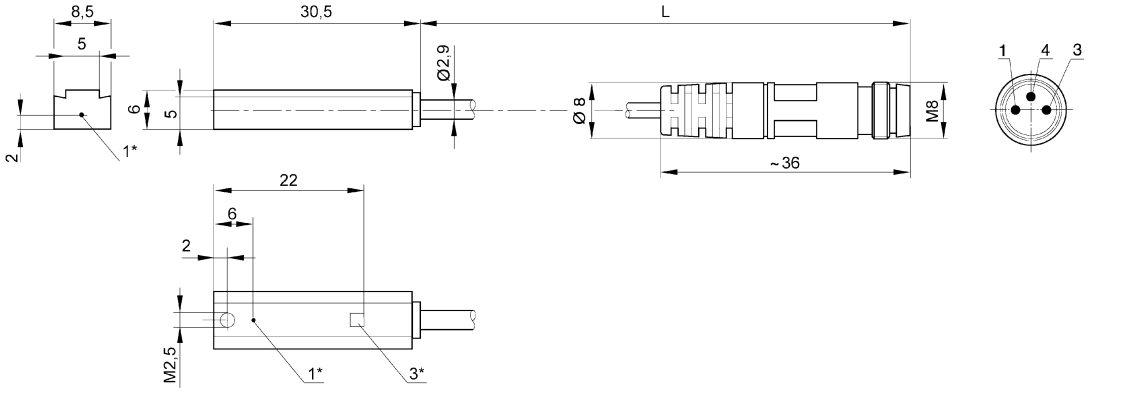
ISO 15552, Series PRA
Accessories

	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	electronic PNP	0.3	10 / 30	-	0,15	-	**2750111120** **2750123120** 2750213120
	electronic NPN	0.3	10 / 30	-	0,15	-	2750111220

Part No.	Voltage drop U at Imax	Note
	[V]	
2750111320	I*Rs	2); 3)
2750111120		4)
2750123120	≤ 2,0	1); 4)
2750213120		4)
2750111220	≤ 2,0	4)

1) in accordance with EN 50082-2
2) switching capacity: 3 W / 3 VA
3) short circuit protected
4) short circuit resistant; short circuit protected
interfaces: Plug; M8; 3-pin

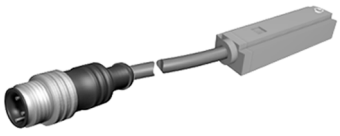
Dimensions



1* = switching point
3* = LED
L = cable length
Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

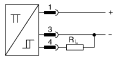
ISO 15552, Series PRA
Accessories

Sensor, Series ST8
► 8 mm groove ► with cable ► Plug, M12, 3-pin, with knurled screw



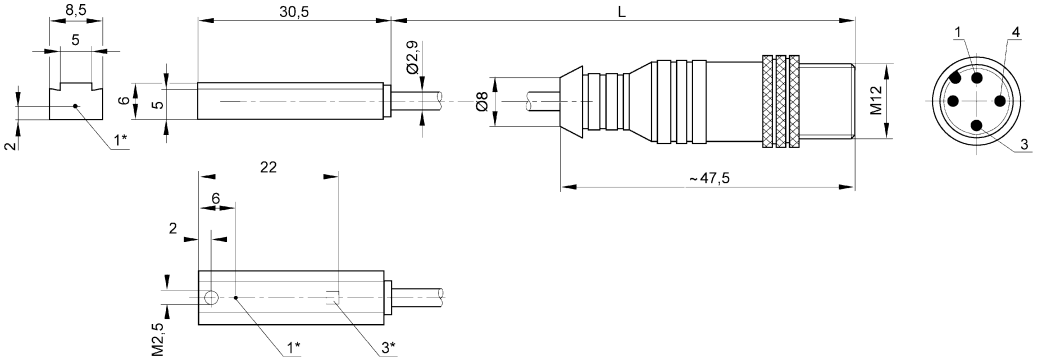
P322_194_12

Ambient temperature min./max.	-25°C / +75°C
Protection class according to EN 60529:2000	IP 65IP 67
Switching point precision [mm]	±0,1
Vibration resistance	10 - 55 Hz, 1,5 mm
Shock resistance	30 g
Materials:	
Housing	Polyamide
Cable	Polyurethane

	Type of contact	Cable length L	DC operating voltage min./max.	DC switching current, max.	Voltage drop U at Imax	Part No.
		[m]	[V]	[A]	[V]	
	electronic PNP	0.3	10 / 30	0,15	≤ 2,0	2750121120

interfaces: Plug; M12; 3-pin; with knurled screw
short circuit resistant; short circuit protected

Dimensions



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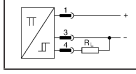
1* = switching point
3* = LED
L = cable length
Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

ISO 15552, Series PRA
Accessories

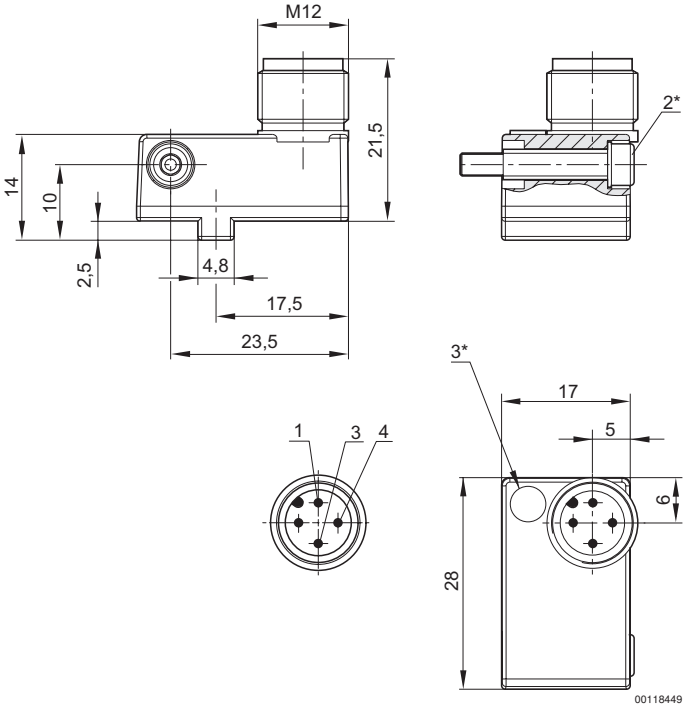
Sensor, Series SN3
► Plug, M12, 3-pin ► welding-proof

Ambient temperature min./max.	-25 °C / +70 °C
Protection class according to EN 60529:2000	IP 67
Switching point precision [mm]	±0,1
Nominal current, actuated state mA	≤ 10
Nominal current, idle state mA	≤ 5
LED status display	Yellow
Vibration resistance	55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide

	Type of contact	DC operating voltage min./max.	DC switching current, max.	Voltage drop U at Imax	Max. switching frequency	Part No.
		[V]	[A]	[V]	[kHz]	
	electronic PNP	10 / 30	0,2	≤ 1,8	0,02	0830100438

interfaces: Plug; M12; 3-pin
short circuit resistant; short circuit protected

Dimensions

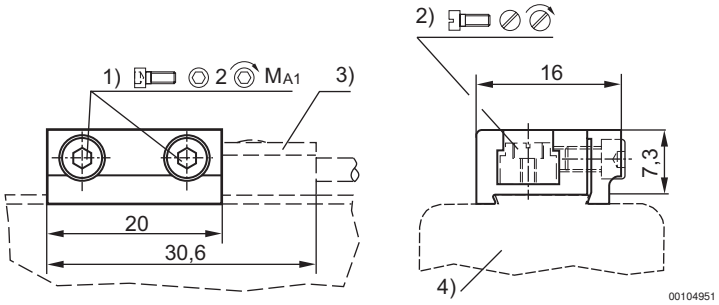


2* = clamping screw
3* = LED
Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

ISO 15552, Series PRA
Accessories

Sensor mounting
► for Sensor Series ST6 ► to mount on cylinder Series FLT, series PRA

00105962



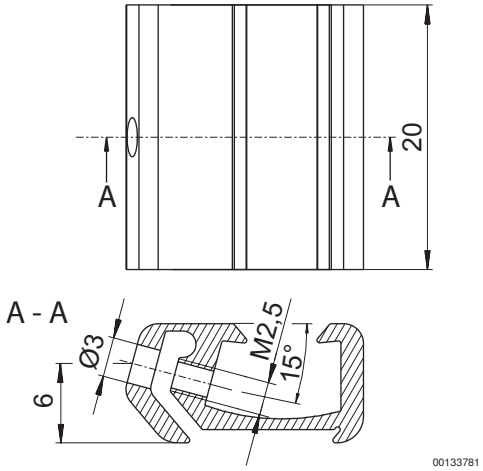
00104951

1) Clamping screw 2) Mounting screw for sensor 3) Sensor 4) Cylinder profile

Part No.	1)	MA1 [Nm]	Material	Weight [kg]					
1827020287	M2,5x5	1	Aluminum	0.006					

Sensor mounting
► for Sensor Series ST8 ► to mount on cylinder series PRA

00133850



00133781

Part No.	Cylinders Ø [mm]	Material	Weight [kg]						
R412008435	32 - 125	Aluminum	0.005						

incl. mounting screw

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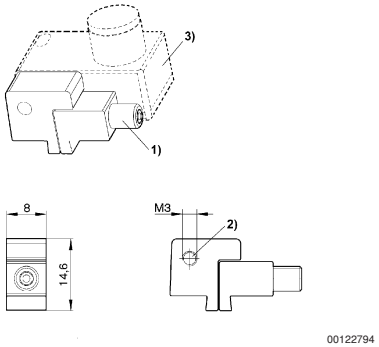
Accessories

Sensor mounting
► for Sensor Series SN3 ► to mount on cylinder series PRA, series KPZ, series GPC, series CCI, series KHZ

00112453



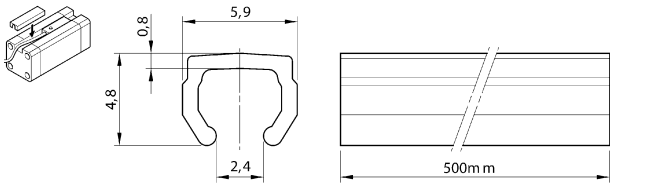
00122794

1) Clamping screw 2) Mounting screw for sensor 3) Sensor

Part No.	1)	MA1 [Nm]	Material	Weight [kg]					
1827020386	M3x25	1,8 +0,4	Aluminum	0.007					

Groove lock profile

00105175



00111999

Part No.	Ø	Material										
1821321009	16–100	Acrylonitrile butadiene styrene										

Connecting cable, Series CN1
► Socket, M8, 3-pin ► without wire end ferrule, tin-plated, 3-pin

00107009

Ambient temperature min./max.	-40 °C / +85 °C
Protection class according to EN 60529	IP 65
Materials:	
Cable sheath	Polyurethane

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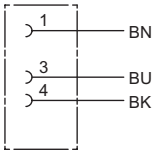
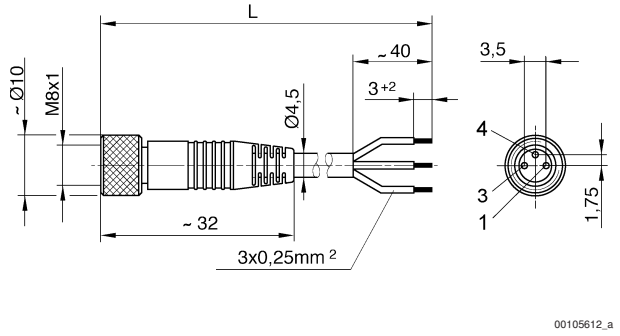
Technical Remarks
■ The specified protection class is valid only in assembled and tested state.

	Electrical interface		Number of plug options	Max. current	Number of wires	Cable length	Part No.
	[Port 1]	[Port 2]	[for port 1]	[A]		[m]	
	Socket, M8, 3-pin	without wire end ferrule, tin-plated, 3-pin	1 position	4	3	3	**1834484166**
						5	**1834484168**
						10	**1834484247**
						3	**1834484167**
						5	**1834484169**
						10	**1834484248**
						15	**1834484249**

Part No.	Cable exit	Weight	Note
		[kg]	
1834484166	straight 180°	0.091	Fig. 1
1834484168	straight 180°	0.145	Fig. 1
1834484247	straight 180°	0.33	Fig. 1
1834484167	angled 90°	0.092	Fig. 2
1834484169	angled 90°	0.141	Fig. 2
1834484248	angled 90°	0.276	Fig. 2
1834484249	angled 90°	0.431	Fig. 2

Fig. 1



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

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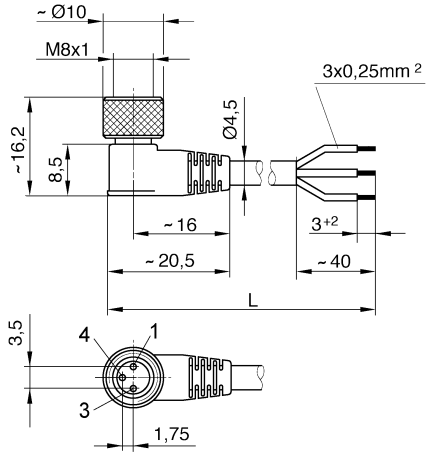
Accessories

Fig. 2

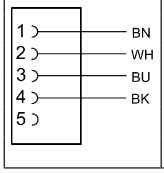


(1) BN=brown (3) BU=blue (4) BK=black
L = length

Connecting cable, Series CN1
► Socket, M12, 5-pin ► without wire end ferrule, tin-plated, 5-pin

Ambient temperature min./max.	-40 °C / +85 °C
Protection class according to EN 60529	IP 65
Materials:	
Cable sheath	Polyurethane

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

	Electrical interface		Number of plug options	Operating voltage		Max. current	Housing color	Part No.
	[Port 1]	[Port 2]	[for port 1]	[V DC]	[V AC]	[A]		
	Socket, M12, 5-pin	without wire end ferrule, tin-plated, 5-pin	1 position	300	250	4	Black	**1834484256** **1834484257** **1834484258** **1834484259** **1834484260** **1834484261**

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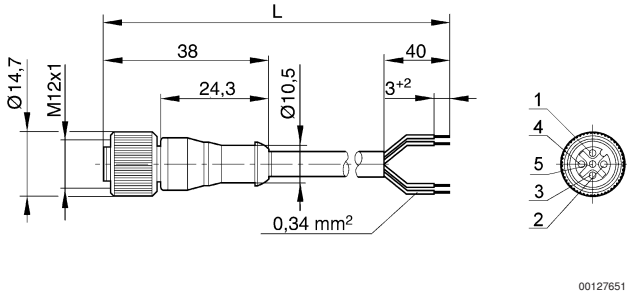
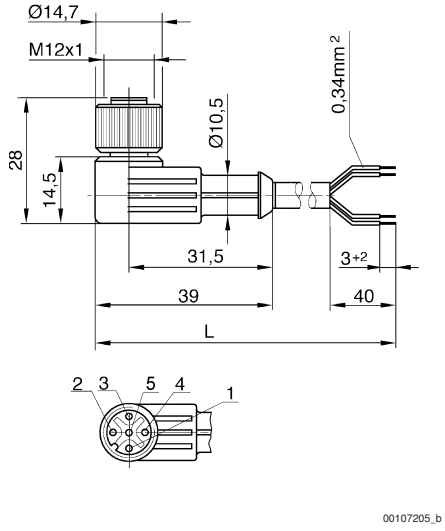
Part No.	Number of wires	Cable length	Cable exit	Cable color	Weight	Note
		[m]			[kg]	
1834484256	4	3	straight 180°	Black	0.131	Fig. 1
1834484257		5	straight 180°		0.201	Fig. 1
1834484258		10	straight 180°		0.398	Fig. 1
1834484259		3	angled 90°		0.13	Fig. 2
1834484260		5	angled 90°		0.202	Fig. 2
1834484261		10	angled 90°		0.387	Fig. 2

Fig. 1



(1) BN=brown (2) WH=white (3) BU=blue (4) BK=black (5) not assigned
L = length

Fig. 2



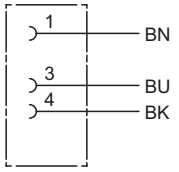
(1) BN=brown (2) WH=white (3) BU=blue (4) BK=black (5) not assigned
L = length

ISO 15552, Series PRA
Accessories

M8x1 socket (female)
► **Socket, M8x1, 3-pin**

Ambient temperature min./max.	-40 °C / +85 °C
Protection class according to EN 60529:	IP 65
Materials:	
Housing	Polyamide

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

	Operating voltage		Max. current	Contact assignment	Cable exit	suitable cable-Ø min./max	Part No.
	DC	AC					
	[V]	[V]	[A]			[mm]	
	75	60	4	3	straight 180°	-- / 4.5	**1834484173**
					angled 90°		**1834484174**

Part No.	number of plug options 1	Housing color	Weight	Note
			[kg]	
1834484173	1 position	Black	0.008	Fig. 1
1834484174				Fig. 2

Fig. 1

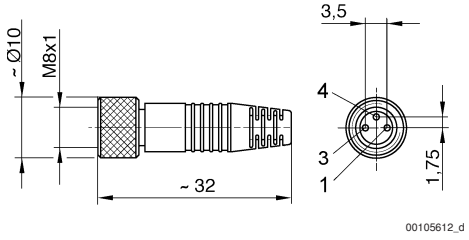


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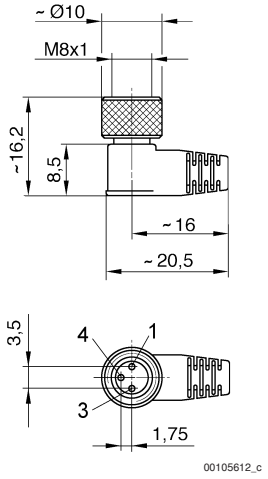
Fig. 2



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