

Piston rod cylinders ▶ Short-stroke and compact cylinders










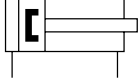







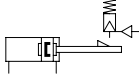

Series KPZ

Brochure



Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ

		<p>Compact cylinder, Series KPZ</p> <ul style="list-style-type: none"> ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, Optionally through ▶ optionally heat-resistant 	6
		<p>Compact cylinder, Series KPZ</p> <ul style="list-style-type: none"> ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread, Optionally through (hollow) ▶ optionally heat-resistant 	10
		<p>Compact cylinder, Series KPZ</p> <ul style="list-style-type: none"> ▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, Optionally heat-resistant 	14
		<p>Compact cylinder, Series KPZ</p> <ul style="list-style-type: none"> ▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread, Optionally heat-resistant 	18
		<p>Compact cylinder, Series KPZ</p> <ul style="list-style-type: none"> ▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, Optionally through ▶ ATEX optional ▶ optionally heat-resistant 	22
		<p>Compact cylinder, Series KPZ</p> <ul style="list-style-type: none"> ▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread, Optionally through (hollow) ▶ ATEX optional ▶ optionally heat-resistant 	27
		<p>Compact cylinder, Series KPZ</p> <ul style="list-style-type: none"> ▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: non-rotating, with front plate, Optionally through ▶ optionally heat-resistant 	32
		<p>Series KPZ</p> <ul style="list-style-type: none"> ▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, non-rotating, Optionally through (hollow) ▶ ATEX optional 	38
		<p>Series KPZ with integrated holding unit</p> <ul style="list-style-type: none"> ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ with integrated holding unit ▶ Piston rod: Internal thread 	42
		<p>Series KPZ-Multiple position</p> <ul style="list-style-type: none"> ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, Reinforced ▶ multi-position cylinder: 3 positions 	47

Piston rod cylinders ▶ Short-stroke and compact cylinders
Series KPZ



Accessories

Accessories overview

	Accessories overview	50
Cylinder mountings		
	Foot mounting, Series MS1	51
	Flange mounting, Series MF1, MF2	52
	Clevis mounting, Series AB3	53
	Rear eye, Series MP4 ▶ for clevis mounting MP2 and AB3	53
	Clevis mounting, Series MP2 ▶ for Series KPZ	54
	Bolts, AA4	55
	Trunnion mounting, front or rear, Series MT5, MT6	55
	Bearing brackets MT4, MT5, MT6, Series AT4 ▶ Cylinder mounting in accordance with ISO 15552 ▶ for Series CCI, CCL-IC, ICL, KPZ, PRA/TRB	57
	Intermediate flange, Series JP2 ▶ for multi-position cylinders ▶ for Series CCI, KPZ, KPZ	58

Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ

	Mounting kit	59
Piston rod mountings		
	Nut for piston rod, Series MR9	60
	Rod clevis, Series AP2 ▶ galvanized steel	60
	Ball eye rod end with flange, Series AP6 ▶ galvanized steel	61
	Flexible spherical coupling, Series PM5	62
	Flexible plate coupling, Series PM7	62
Sensors and sensor mountings, accessories		
	Sensor, Series ST6 ▶ 6 mm T-slot ▶ with cable ▶ open cable ends, 2-pin, open cable ends, 3-pin	64
	Sensor, Series ST6 ▶ 6 mm T-slot ▶ with cable ▶ open cable ends, 3-pin ▶ ATEX certified	66
	Sensor, Series ST6 ▶ 6 mm T-slot ▶ with cable ▶ Plug, M8, 3-pin, with knurled screw	67
	Sensor, Series ST6 ▶ 6 mm T-slot ▶ with cable ▶ Plug, M8, 3-pin, with knurled screw ▶ ATEX certified	69
	Sensor, Series ST6 ▶ 6 mm T-slot ▶ with cable ▶ Plug, M8, 3-pin	70

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

Pneumatics catalog, online PDF, as of 2017-05-04, ©AVENTICS S.à r.l., subject to change

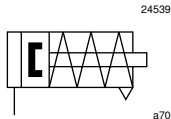
Piston rod cylinders ▶ Short-stroke and compact cylinders
Series KPZ

	Sensor, Series ST6 ▶ 6 mm T-slot ▶ with cable ▶ Plug, M12, 3-pin, with knurled screw	72
	Sensor, Series ST6 ▶ 6 mm T-slot ▶ with cable ▶ Plug, M12, 3-pin, with knurled screw ▶ ATEX certified	73
	Sensors, Series SM6 ▶ 6 mm groove ▶ with cable ▶ without wire end ferrule, tin-plated, 4-pin ▶ with distance measuring sensor, measurement range 32 - 256 mm	75
	Sensors, Series SM6 ▶ 6 mm groove ▶ with cable ▶ Plug, M8x1, 4-pin, with knurled screw ▶ with distance measuring sensor, measurement range 32 - 256 mm	76
	Sensor, Series SN3 ▶ Plug, M12, 3-pin ▶ welding-proof	78
	Sensor mounting, Series CB1 ▶ for Series SN3 ▶ to mount on cylinder PRA, KPZ, GPC, CCI, KHZ	79
	Connecting cable, Series CN2 ▶ Socket, M8, 3-pin, straight ▶ open cable ends, 3-pin	79
	Connecting cable, Series CN2 ▶ Socket, M8x1, 3-pin, angled ▶ open cable ends, 3-pin	80
	Socket, M8x1, Series CN2 ▶ Socket, M8x1, 3-pin	82
	Socket, M8x1, Series CN2 ▶ Socket, M8x1, 3-pin, angled	83
Other accessories		
	Silencers, Series S11 ▶ Sintered bronze	85
	Silencers, Series S11 ▶ Sintered bronze	85

Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
 ▶ Piston rod: Internal thread, Optionally through ▶ optionally heat-resistant



Standards	NFE 49004
Compressed air connection	Internal thread
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	Aluminum
End cover	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 compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- The material for heat-resistant scraper and seal variants (ambient temperature: -10 °C/120 °C) is fluorocautchouc.
- Further options can be generated in the Internet configurator.

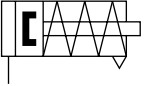
Piston Ø	[mm]	16	20	25	32	40
Retracting piston force	[N]	12	13	25	35	43
Extracting piston force	[N]	115	185	284	472	749
Impact energy	[J]	0.11	0.15	0.2	0.4	0.52
Weight	0 mm stroke	0.07	0.098	0.143	0.223	0.333
	+10 mm stroke	0.014	0.02	0.02	0.03	0.04
Stroke max.	[mm]	25	25	25	25	25
Working pressure min./max.	[bar]	1.5 - 10	1.5 - 10	1.5 - 10	1.3 - 10	1.3 - 10
Scraper material		-	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing material		Nitrile butadiene rubber	Nitrile butadiene rubber	Nitrile butadiene rubber	Polyurethane	Polyurethane

Piston Ø	[mm]	50	63	80	100
Retracting piston force	[N]	82	82	105	215
Extracting piston force	[N]	1155	1882	3062	4733
Impact energy	[J]	0.64	0.75	0.75	1
Weight	0 mm stroke	0.446	0.757	1.318	2.276
	+10 mm stroke	0.05	0.08	0.11	0.14
Stroke max.	[mm]	25	25	25	25
Working pressure min./max.	[bar]	1 - 10	1 - 10	1 - 10	1 - 10
Scraper material		Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing material		Polyurethane	Polyurethane	Polyurethane	Polyurethane

Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
- ▶ Piston rod: Internal thread, Optionally through ▶ optionally heat-resistant

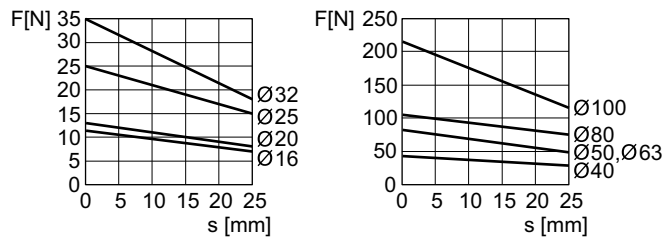
	Piston Ø Piston rod thread Ports	16	20	25	32	40
		M4 M5	M6 M5	M6 M5	M8 G 1/8	M8 G 1/8
	Stroke 5	0822490000	0822491000	0822492000	0822493000	0822494000
	10	0822490001	0822491001	0822492001	0822493001	0822494001
	15	0822490002	0822491002	0822492002	0822493002	0822494002
	20	0822490003	0822491003	0822492003	0822493003	0822494003
	25	0822490004	0822491004	0822492004	0822493004	0822494004
	Piston Ø Piston rod thread Ports	50	63	80	100	
		M10 G 1/8	M10 G 1/8	M12 G 1/8	M16 G 1/8	
	Stroke 5	0822495000	0822496000	0822497000	0822498000	
	10	0822495001	0822496001	0822497001	0822498001	
	15	0822495002	0822496002	0822497002	0822498002	
20	0822495003	0822496003	0822497003	0822498003		
25	0822495004	0822496004	0822497004	0822498004		

Configurable product



This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

Retracting piston force

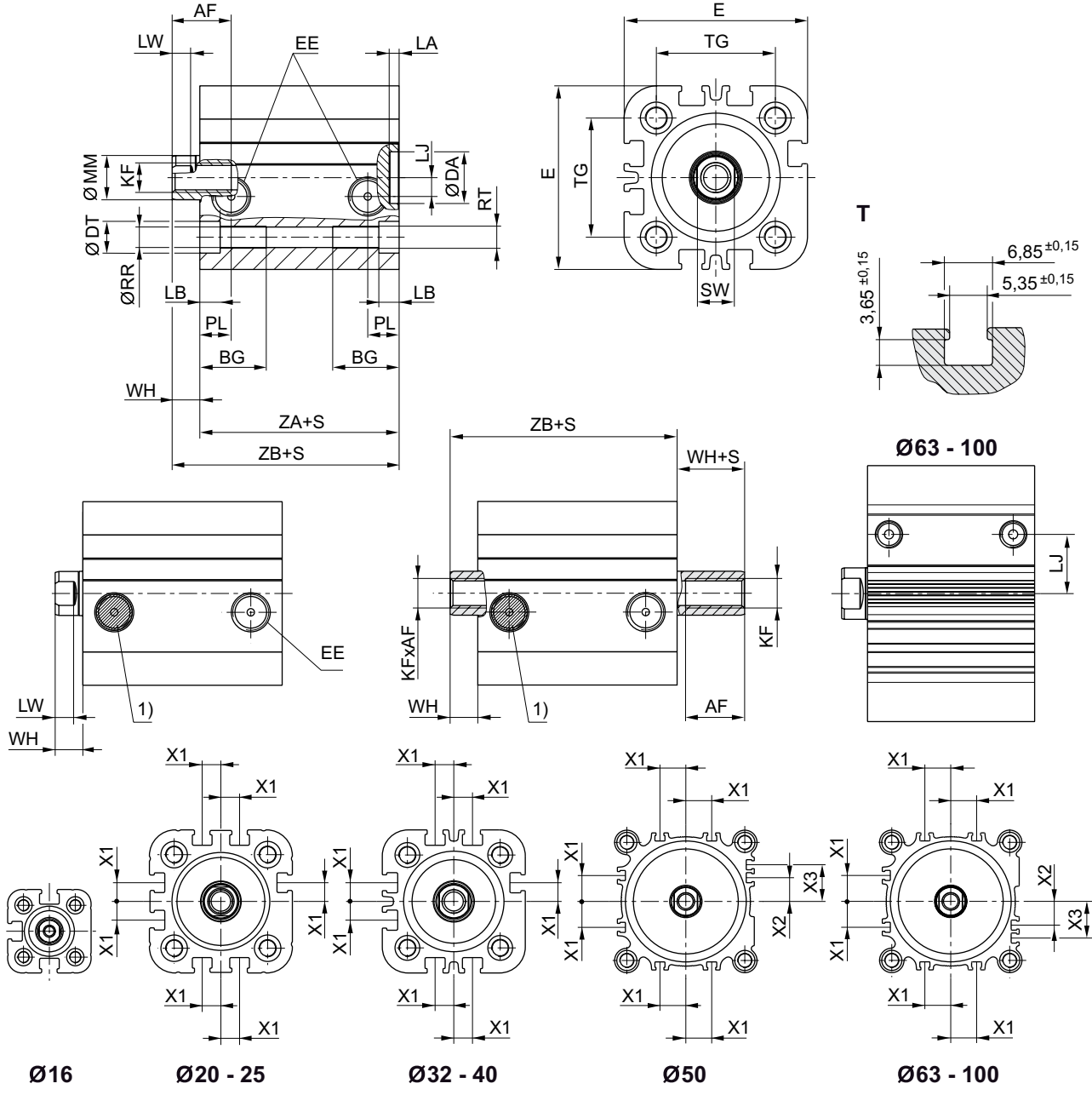


F = spring return force, s = return stroke

Compact cylinder, Series KPZ

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
- ▶ Piston rod: Internal thread, Optionally through ▶ optionally heat-resistant

Dimensions



S = stroke
 T = View for sensor groove
 1) Filter

24273

Piston Ø	AF 1)	BG 1)	DA H11	DT H13	E	EE	KF	LA	LB	LJ	LW	MM f8
16	10	14.5	10	6	29.5	M5	M4	2.5	3.5	2.5	2.8	8
20	12	15.5	12	7.5	36	M5	M6	2.5	4.5	4.5	3.7	10
	10: S<3 mm 2)											

Piston rod cylinders ▶ Short-stroke and compact cylinders
Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic

▶ Piston rod: Internal thread, Optionally through ▶ optionally heat-resistant

Piston Ø	AF 1)	BG 1)	DA H11	DT H13	E	EE	KF	LA	LB	LJ	LW	MM f8
25	12 10: S<3 mm 2)	15.5	12	8	40	M5	M6	2.5	4.4	5	3.7	10
32	12	18	14	8.6	50	G 1/8	M8	2.5	5.5	5.1	5	12
40	12	18	14	9	58	G 1/8	M8	2.5	5.5	9.6	5	12
50	16 12: S<4 mm 2)	24	18	11	68	G 1/8	M10	2.5	2	8.5	5.7	16
63	16 12: S<4 mm 2)	24	18	11	80	G 1/8	M10	2.5	2	17.8	5.7	16
80	20 15: S<3 mm 2)	28	23	14	99	G 1/8	M12	3	1	22.9	7	20
100	26 21: S<5 mm 2)	27.5	28	15	120	G 1/8	M16	3	3.5	26.5	7.5	25

Piston Ø	PL	Ø RR	RT	SW	TG	WH	X1	X2	X3	ZA +S	ZB +S
16	7.5	3.3	M4	7	18 ±0,4	4.5	-	-	-	38	42,5 0/+1,4
20	7.5	4.2	M5	8	22 ±0,4	5	4.2	-	-	38	43 0/+1,4
25	7.5	4.2	M5	8	26 ±0,4	5.5	4.5	-	-	39	44,5 0/+1,4
32	8.5	5.1	M6	10	32 ±0,5	7	6.5	-	-	44	51 0/+1,6
40	8.5	5.1	M6	10	42 ±0,5	7	11	-	-	45	52 0/+1,6
50	8.5	6.7	M8	13	50 ±0,6	7.5	13	4	13	45.5	53 0/+1,6
63	8.5	6.7	M8	13	62 ±0,7	8	18	12	21	49	57 0/+2
80	8.3	8.5	M10	16	82 ±0,7	9.5	18	16.5	25.5	54.5	64 0/+2
100	9.7	8.5	M10	21	103 ±0,7	10.5	20	20	29	66.5	77 0/+2

1) Min.

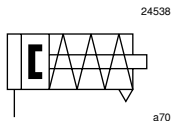
2) Option: through piston rod

S = stroke

Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
 ▶ Piston rod: external thread, Optionally through (hollow) ▶ optionally heat-resistant



Standards	NFE 49004
Compressed air connection	Internal thread
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	Aluminum
End cover	Aluminum
Nut for piston rod	Steel, galvanized

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 compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- The material for heat-resistant scraper and seal variants (ambient temperature: -10 °C/120 °C) is fluorocautchouc.
- Further options can be generated in the Internet configurator.

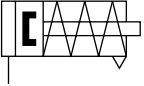
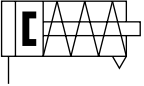
Piston Ø		[mm]	16	20	25	32	40
Retracting piston force		[N]	12	13	25	35	43
Extracting piston force		[N]	115	185	284	472	749
Impact energy		[J]	0.11	0.15	0.2	0.4	0.52
Weight	0 mm stroke	[kg]	0.083	0.112	0.157	0.237	0.347
	+10 mm stroke	[kg]	0.014	0.02	0.02	0.03	0.04
Stroke max.		[mm]	25	25	25	25	25
Working pressure min./max.		[bar]	1.5 - 10	1.5 - 10	1.5 - 10	1.3 - 10	1.3 - 10
Scraper material			-	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing material			Nitrile butadiene rubber	Nitrile butadiene rubber	Nitrile butadiene rubber	Polyurethane	Polyurethane

Piston Ø		[mm]	50	63	80	100
Retracting piston force		[N]	82	82	105	215
Extracting piston force		[N]	1155	1882	3062	4733
Impact energy		[J]	0.64	0.75	0.75	1
Weight	0 mm stroke	[kg]	0.468	0.779	1.368	2.375
	+10 mm stroke	[kg]	0.05	0.08	0.11	0.14
Stroke max.		[mm]	25	25	25	25
Working pressure min./max.		[bar]	1 - 10	1 - 10	1 - 10	1 - 10
Scraper material			Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing material			Polyurethane	Polyurethane	Polyurethane	Polyurethane

Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
- ▶ Piston rod: external thread, Optionally through (hollow) ▶ optionally heat-resistant

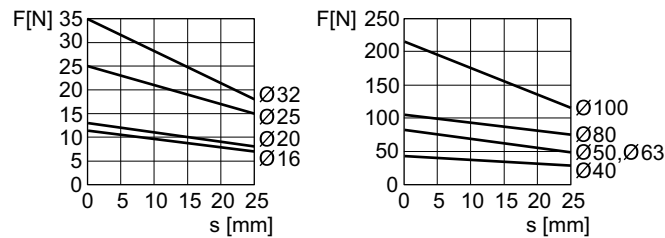
Piston Ø Piston rod thread Ports	16	20	25	32	40	
	M8 M5	M10x1,25 M5	M10x1,25 M5	M10x1,25 G 1/8	M10x1,25 G 1/8	
	Stroke 5	0822490200	0822491200	0822492200	0822493200	0822494200
	10	0822490201	0822491201	0822492201	0822493201	0822494201
	15	0822490202	0822491202	0822492202	0822493202	0822494202
	20	0822490203	0822491203	0822492203	0822493203	0822494203
	25	0822490204	0822491204	0822492204	0822493204	0822494204
Piston Ø Piston rod thread Ports	50	63	80	100		
	M12x1,25 G 1/8	M12x1,25 G 1/8	M16x1,5 G 1/8	M20x1,5 G 1/8		
	Stroke 5	0822495200	0822496200	0822497200	0822498200	
	10	0822495201	0822496201	0822497201	0822498201	
	15	0822495202	0822496202	0822497202	0822498202	
	20	0822495203	0822496203	0822497203	0822498203	
	25	0822495204	0822496204	0822497204	0822498204	

Configurable product



This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

Retracting piston force

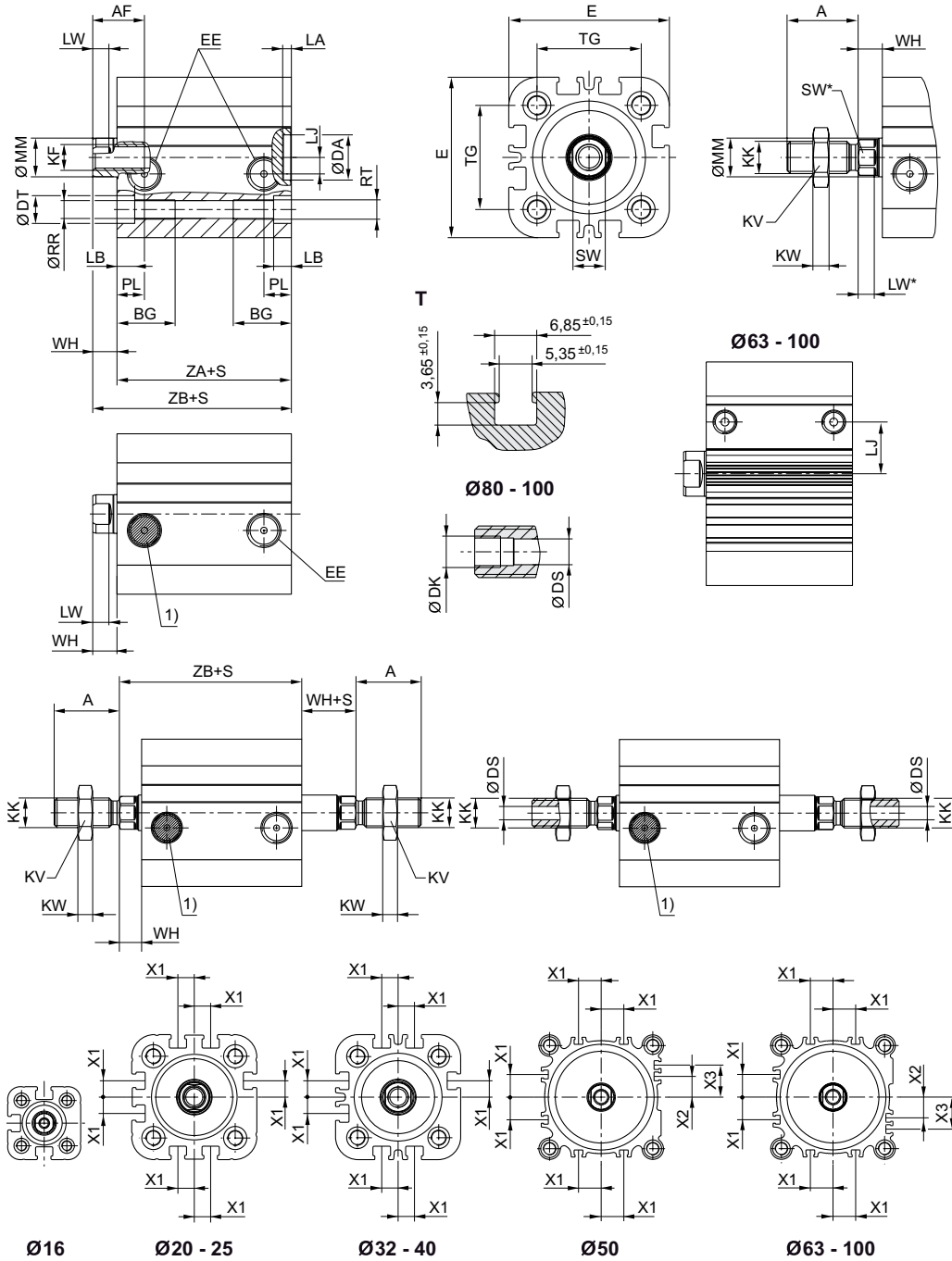


F = spring return force, s = return stroke

Compact cylinder, Series KPZ

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
- ▶ Piston rod: external thread, Optionally through (hollow) ▶ optionally heat-resistant

Dimensions



S = stroke
 T = View for sensor groove
 1) Filter

24275

Piston Ø	A	BG 1)	DA H11	Ø DK	Ø DS	DT H13	E	EE	KK	KV	KW	LA	LB
16	20	14.5	10	-	-	6	29.5	M5	M8x1,25	13	4	2.5	3.5

Piston rod cylinders ▶ Short-stroke and compact cylinders
Compact cylinder, Series KPZ

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
 ▶ Piston rod: external thread, Optionally through (hollow) ▶ optionally heat-resistant

Piston Ø	A	BG 1)	DA H11	Ø DK	Ø DS	DT H13	E	EE	KK	KV	KW	LA	LB
20	22	15.5	12	-	3	7.5	36	M5	M10x1,25	16	5	2.5	4.5
25	22	15.5	12	-	3	8	40	M5	M10x1,25	16	5	2.5	4.4
32	22	18	14	-	4.5	8.6	50	G 1/8	M10x1,25	16	5	2.5	5.5
40	22	18	14	-	4.5	9	58	G 1/8	M10x1,25	16	5	2.5	5.5
50	24	24	18	-	6	11	68	G 1/8	M12x1,25	18	6	2.5	2
63	24	24	18	-	6	11	80	G 1/8	M12x1,25	18	6	2.5	2
80	32	28	23	G 1/8	8	14	99	G 1/8	M16x1,5	24	8	3	1
100	40	27.5	28	G 1/4	11.5	15	120	G 1/8	M20x1,5	30	10	3	3.5

Piston Ø	LJ	LW	MM f8	PL	Ø RR	RT	SW	TG	WH	X1	X2	X4	ZA +S
16	2.5	2.8	8	7.5	3.3	M4	7	18 ±0,4	4.5	-	-	-	38
20	4.5	3.7	10	7.5	4.2	M5	8	22 ±0,4	5	4.2	-	-	38
25	5	3.7	10	7.5	4.2	M5	8	26 ±0,4	5.5	4.5	-	-	39
32	5.1	5*	12	8.5	5.1	M6	10*	32 ±0,5	7	6.5	-	-	44
40	9.6	5*	12	8.5	5.1	M6	10*	42 ±0,5	7	11	-	-	45
50	8.5	4,8*	16	8.5	6.7	M8	13*	50 ±0,6	7.5	13	4	13	45.5
63	17.8	4,8*	16	8.5	6.7	M8	13*	62 ±0,7	8	18	12	21	49
80	22.9	6,4*	20	8.3	8.5	M10	16*	82 ±0,7	9.5	18	16.5	25.5	54.5
100	26.5	6,4*	25	9.7	8.5	M10	21*	103 ±0,7	10.5	20	20	20	66.5

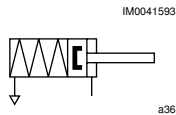
Piston Ø	ZB +S												
16	42,5 0/+1,4												
20	43 0/+1,4												
25	44,5 0/+1,4												
32	51 0/+1,6												
40	52 0/+1,6												
50	53 0/+1,6												
63	57 0/+2												
80	64 0/+2												
100	77 0/+2												

1) Min.
 S = stroke
 * Hexagonal wrench flats

Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic
 ▶ Piston rod: Internal thread, Optionally heat-resistant



Standards	NFE 49004
Compressed air connection	Internal thread
Ambient temperature min./max.	-20 °C / +80 °C
Medium temperature min./max.	-20 °C / +80 °C
Medium	Compressed air
Max. particle size	5 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	Aluminum
End cover	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 compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- The material for heat-resistant scraper and seal variants (ambient temperature: -10 °C/120 °C) is fluorocautchouc.
- Further options can be generated in the Internet configurator.



Piston Ø		[mm]	16	20	25	32	40
Retracting piston force		[N]	127	198	309	507	792
Extracting piston force		[N]	12	13	25	35	43
Impact energy		[J]	0.11	0.15	0.2	0.4	0.52
Weight	0 mm stroke	[kg]	0.07	0.098	0.143	0.223	0.333
	+10 mm stroke	[kg]	0.014	0.02	0.02	0.03	0.04
Stroke max.		[mm]	25	25	25	25	25
Working pressure min./max.		[bar]	1.5 - 10	1.5 - 10	1.5 - 10	1.3 - 10	1.3 - 10
Scraper material			-	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing material			Nitrile butadiene rubber	Nitrile butadiene rubber	Nitrile butadiene rubber	Polyurethane	Polyurethane

Piston Ø		[mm]	50	63	80	100
Retracting piston force		[N]	1237	1964	3167	4948
Extracting piston force		[N]	82	82	105	215
Impact energy		[J]	0.64	0.75	0.75	1
Weight	0 mm stroke	[kg]	0.446	0.757	1.318	2.276
	+10 mm stroke	[kg]	0.05	0.08	0.11	0.14
Stroke max.		[mm]	25	25	25	25
Working pressure min./max.		[bar]	1 - 10	1 - 10	1 - 10	1 - 10
Scraper material			Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing material			Polyurethane	Polyurethane	Polyurethane	Polyurethane

Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic
- ▶ Piston rod: Internal thread, Optionally heat-resistant

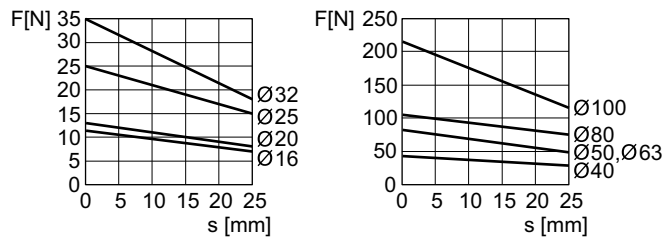
Piston Ø Piston rod thread Ports	16	20	25	32	40	
	M4 M5	M6 M5	M6 M5	M8 G 1/8	M8 G 1/8	
	Stroke 5	0822490100	0822491100	0822492100	0822493100	0822494100
	10	0822490101	R480660211	0822492101	0822493101	0822494101
	15	0822490102	0822491102	0822492102	0822493102	0822494102
	20	0822490103	0822491103	0822492103	0822493103	0822494103
	25	0822490104	0822491104	0822492104	0822493104	0822494104
Piston Ø Piston rod thread Ports	50	63	80	100		
	M10 G 1/8	M10 G 1/8	M12 G 1/8	M16 G 1/8		
	Stroke 5	0822495100	0822496100	0822497100	0822498100	
	10	0822495101	0822496101	0822497101	0822498101	
	15	0822495102	0822496102	0822497102	0822498102	
	20	0822495103	0822496103	0822497103	0822498103	
	25	0822495104	0822496104	0822497104	0822498104	

Configurable product



This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

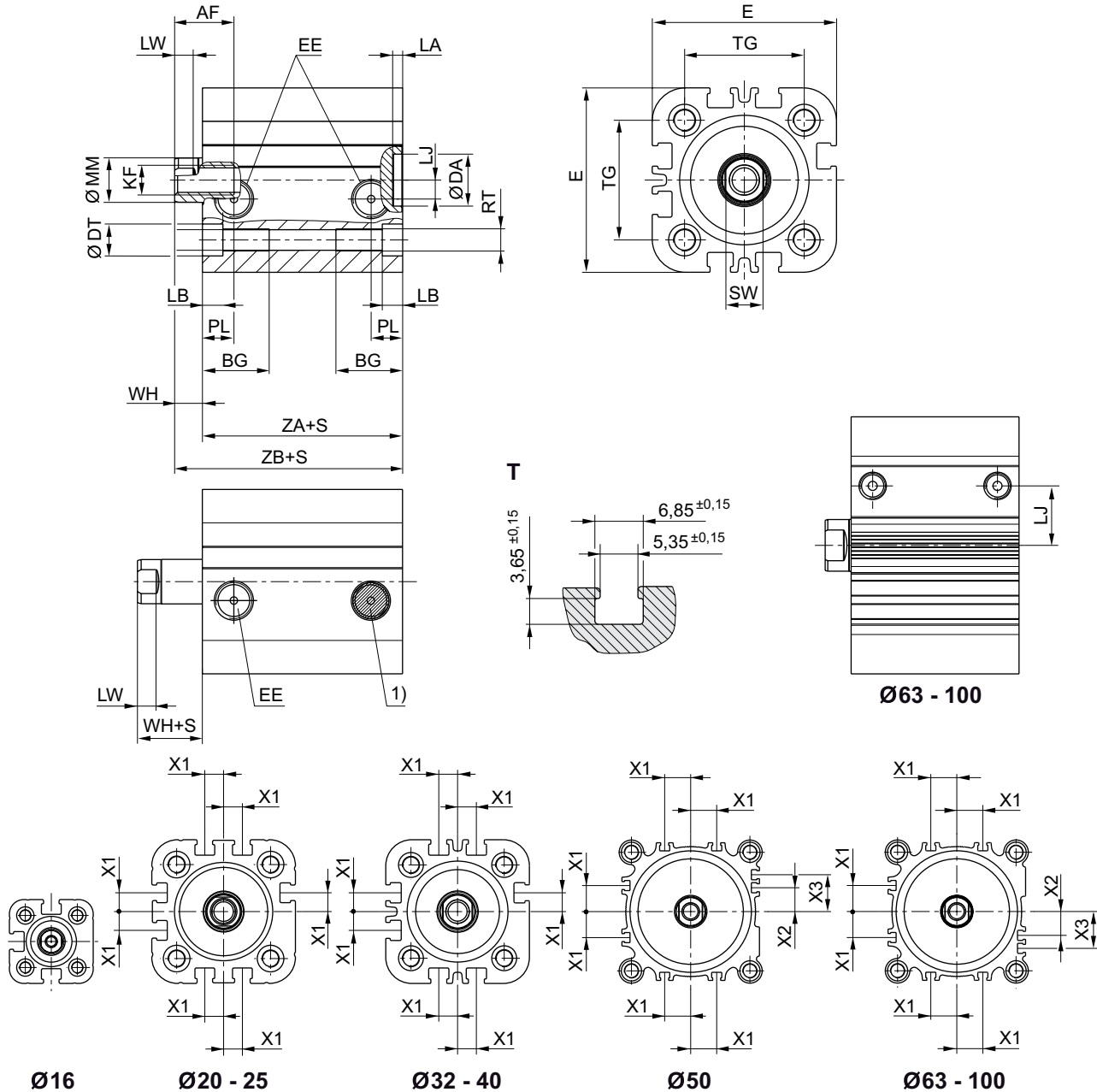
Extracting piston force



F = spring return force, s = stroke

Compact cylinder, Series KPZ

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic
- ▶ Piston rod: Internal thread, Optionally heat-resistant

Dimensions


S = stroke
T = View for sensor groove

24664

Piston Ø	AF	BG *)	DA H11	DT H13	E	EE	KF	LA	LB	LJ	LW	MM f8	PL
16	10	14.5	10	6	29.5	M5	M4	2.5	3.5	2.5	2.8	8	7.5
20	12	15.5	12	7.5	36	M5	M6	2.5	4.5	4.5	3.7	10	7.5
25	12	15.5	12	8	40	M5	M6	2.5	4.4	5	3.7	10	7.5
32	12	18	14	8.6	50	G 1/8	M8	2.5	5.5	5.1	5	12	8.5
40	12	18	14	9	58	G 1/8	M8	2.5	5.5	9.6	5	12	8.5

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

Pneumatics catalog, online PDF, as of 2017-05-04, ©AVENTICS S.à r.l., subject to change

Piston rod cylinders ▶ Short-stroke and compact cylinders
Compact cylinder, Series KPZ

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic
 ▶ Piston rod: Internal thread, Optionally heat-resistant

Piston Ø	AF	BG *)	DA H11	DT H13	E	EE	KF	LA	LB	LJ	LW	MM f8	PL
50	16	24	18	11	68	G 1/8	M10	2.5	2	8.5	5.7	16	8.5
63	16	24	18	11	80	G 1/8	M10	2.5	2	17.8	5.7	16	8.5
80	20	28	23	14	99	G 1/8	M12	3	1	22.9	7	20	8.3
100	26	27.5	28	15	120	G 1/8	M16	3	3.5	26.5	7.5	25	9.7

Piston Ø	RT	SW	TG	WH	X1	X2	X3	ZA +S	ZB+S			
16	M4	7	18 ±0,4	4.5	-	-	-	38	42,5 0/+1,2			
20	M5	8	22 ±0,4	5	4.2	-	-	38	43 0/+1,4			
25	M5	8	26 ±0,4	5.5	4.5	-	-	38	44,5 0/+1,4			
32	M6	10	32 ±0,5	7	6.5	-	-	44	51 0/+1,6			
40	M6	10	42 ±0,5	7	11	-	-	45	52 0/+1,6			
50	M8	13	50 ±0,6	7.5	13	4	13	45.5	53 0/+1,6			
63	M8	13	62 ±0,7	8	18	12	21	49	57 0/+2			
80	M10	16	82 ±0,7	9.5	18	16.5	25.5	54.5	64 0/+2			
100	M10	21	103 ±0,7	10.5	20	20	29	66.5	77 0/+2			

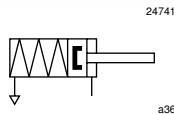
* min.

Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic

▶ Piston rod: external thread, Optionally heat-resistant



Standards	NFE 49004
Compressed air connection	Internal thread
Ambient temperature min./max.	-20 °C / +80 °C
Medium temperature min./max.	-20 °C / +80 °C
Medium	Compressed air
Max. particle size	5 μm
Oil content of compressed air	0 mg/m ³ - 5 mg/m ³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Nut for piston rod	Steel, galvanized

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 compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- The material for heat-resistant scraper and seal variants (ambient temperature: -10 °C/120 °C) is fluorocautchouc.
- Further options can be generated in the Internet configurator.



Piston Ø		[mm]	16	20	25	32	40
Retracting piston force		[N]	127	198	309	507	792
Extracting piston force		[N]	12	13	25	35	43
Impact energy		[J]	0.11	0.15	0.2	0.4	0.52
Weight	0 mm stroke	[kg]	0.083	0.112	0.157	0.237	0.347
	+10 mm stroke	[kg]	0.014	0.02	0.02	0.03	0.04
Stroke max.		[mm]	25	25	25	25	25
Working pressure min./max.		[bar]	1.5 - 10	1.5 - 10	1.5 - 10	1.3 - 10	1.3 - 10
Scraper material			-	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing material			Nitrile butadiene rubber	Nitrile butadiene rubber	Nitrile butadiene rubber	Polyurethane	Polyurethane

Piston Ø		[mm]	50	63	80	100
Retracting piston force		[N]	1237	1964	3167	4948
Extracting piston force		[N]	82	82	105	215
Impact energy		[J]	0.64	0.75	0.75	1
Weight	0 mm stroke	[kg]	0.468	0.779	1.368	2.375
	+10 mm stroke	[kg]	0.05	0.08	0.11	0.14
Stroke max.		[mm]	25	25	25	25
Working pressure min./max.		[bar]	1 - 10	1 - 10	1 - 10	1 - 10
Scraper material			Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing material			Polyurethane	Polyurethane	Polyurethane	Polyurethane


Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic
- ▶ Piston rod: external thread, Optionally heat-resistant

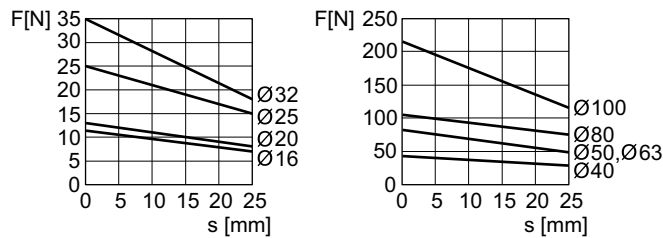
Piston Ø Piston rod thread Ports	16	20	25	32	40	
	M8 M5	M10x1,25 M5	M10x1,25 M5	M10x1,25 G 1/8	M10x1,25 G 1/8	
	Stroke 5	0822490300	0822491300	0822492300	0822493300	0822494300
	10	0822490301	0822491301	0822492301	0822493301	0822494301
	15	0822490302	0822491302	0822492302	0822493302	0822494302
	20	0822490303	0822491303	0822492303	0822493303	0822494303
	25	0822490304	0822491304	0822492304	0822493304	0822494304
Piston Ø Piston rod thread Ports	50	63	80	100		
	M12x1,25 G 1/8	M12x1,25 G 1/8	M16x1,5 G 1/8	M20x1,5 G 1/8		
	Stroke 5	0822495300	0822496300	0822497300	0822498300	
	10	0822495301	0822496301	0822497301	0822498301	
	15	0822495302	0822496302	0822497302	0822498302	
	20	0822495303	0822496303	0822497303	0822498303	
	25	0822495304	0822496304	0822497304	0822498304	

Configurable product



This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

Extracting piston force



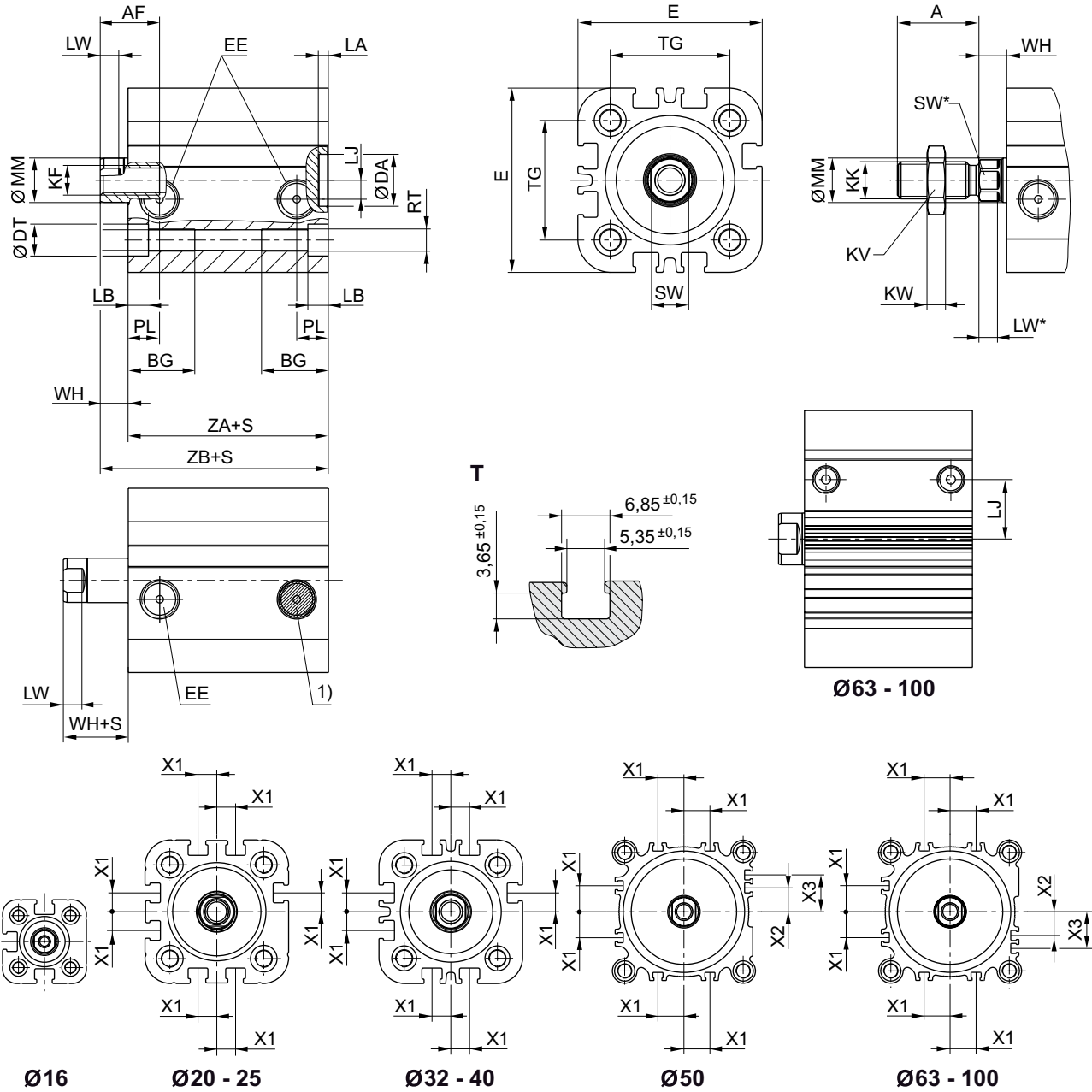
F = spring return force, s = stroke

00112000

Compact cylinder, Series KPZ

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic
- ▶ Piston rod: external thread, Optionally heat-resistant

Dimensions



S = stroke
T = View for sensor groove

24665

Piston Ø	A	BG 1)	DA H11	DT H13	E	EE	KK	KV	KW	LA	LB	LJ	LW
16	20	14.5	10	6	29.5	M5	M8x1,25	13	4	2.5	3.5	2.5	2.8
20	22	15.5	12	7.5	36	M5	M10x1,25	16	5	2.5	4.5	4.5	3.7
25	22	15.5	12	8	40	M5	M10x1,25	16	5	2.5	4.4	5	3.7
32	22	18	14	8.6	50	G 1/8	M10x1,25	16	5	2.5	5.5	5.1	5*
40	22	18	14	9	58	G 1/8	M10x1,25	16	5	2.5	5.5	9.6	5*

Piston rod cylinders ▶ Short-stroke and compact cylinders
Compact cylinder, Series KPZ

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic
 ▶ Piston rod: external thread, Optionally heat-resistant

Piston Ø	A	BG 1)	DA H11	DT H13	E	EE	KK	KV	KW	LA	LB	LJ	LW
50	24	24	18	11	68	G 1/8	M12x1,25	18	6	2.5	2	8.5	4,8*
63	24	24	18	11	80	G 1/8	M12x1,25	18	6	2.5	2	17.8	4,8*
80	32	28	23	14	99	G 1/8	M16x1,5	24	8	3	1	22.9	6,4*
100	40	27.5	28	15	120	G 1/8	M20x1,5	30	10	3	3.5	26.5	6,4*

Piston Ø	MM f8	PL	RT	SW	TG	WH	X1	X2	X4	ZA +S	ZB +S
16	8	7.5	M4	7	18 ±0,4	4.5	-	-	-	38	42,5 0/+1,4
20	10	7.5	M5	8	22 ±0,4	5	4.2	-	-	38	43 0/+1,4
25	10	7.5	M5	8	26 ±0,4	5.5	4.5	-	-	39	44,5 0/+1,4
32	12	8.5	M6	10*	32 ±0,5	7	6.5	-	-	44	51 0/+1,6
40	12	8.5	M6	10*	42 ±0,5	7	11	-	-	45	52 0/+1,6
50	16	8.5	M8	13*	50 ±0,6	7.5	13	4	13	45.5	53 0/+1,6
63	16	8.5	M8	13*	62 ±0,7	8	18	12	21	49	57 0/+2
80	20	8.3	M10	16*	82 ±0,7	9.5	18	16.5	25.5	54.5	64 0/+2
100	25	9.7	M10	21*	103 ±0,7	10.5	20	20	20	66.5	77 0/+2

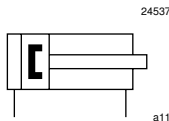
1) Min.

* Hexagonal wrench flats

Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, Optionally through ▶ ATEX optional ▶ optionally heat-resistant



Standards	NFE 49004
Compressed air connection	Internal thread
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	Aluminum
End cover	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 compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- ATEX-certified cylinders can be generated in the Internet configurator.
- ATEX ID: II 2G c IIB T4 II 2D c IP65 T125 °C X
- The operating temperature range for ATEX-certified cylinders is -20 °C ... 50 °C.
- The material for heat-resistant scraper and seal variants (ambient temperature: -10 °C/120 °C) is fluorocautchouc.
- Further options can be generated in the Internet configurator.


Piston Ø	[mm]	16	20	25	32	40
Retracting piston force	[N]	95	148	260	435	720
Extracting piston force	[N]	127	198	309	507	792
Impact energy	[J]	0.15	0.2	0.3	0.5	0.7
Stroke max.	[mm]	300	300	300	300	300
Working pressure min./max.	[bar]	1 - 10	1 - 10	1 - 10	0.6 - 10	0.6 - 10
Scraper material		Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing material		Nitrile butadiene rubber	Nitrile butadiene rubber	Nitrile butadiene rubber	Polyurethane	Polyurethane

Piston Ø	[mm]	50	63	80	100
Retracting piston force	[N]	1110	1827	2969	4639
Extracting piston force	[N]	1237	1964	3167	4948
Impact energy	[J]	1	1.3	1.8	2.5
Stroke max.	[mm]	300	300	500	500
Working pressure min./max.	[bar]	0.6 - 10	0.6 - 10	0.6 - 10	0.6 - 10
Scraper material		Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing material		Polyurethane	Polyurethane	Polyurethane	Polyurethane


Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, Optionally through ▶ ATEX optional ▶ optionally heat-resistant

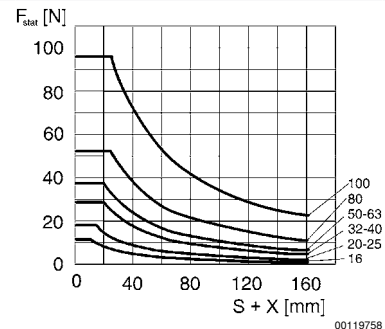
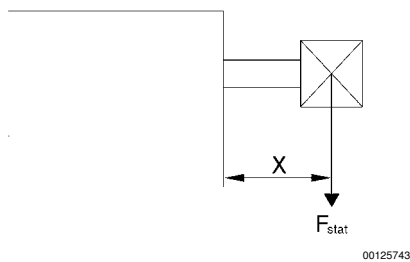
Piston Ø Piston rod thread Ports	16	20	25	32	40	
	M4 M5	M6 M5	M6 M5	M8 G 1/8	M8 G 1/8	
	Stroke 5	0822390000	0822391000	0822392000	0822393000	0822394000
	10	0822390001	0822391001	0822392001	0822393001	0822394001
	15	0822390002	0822391002	0822392002	0822393002	0822394002
	20	0822390003	0822391003	0822392003	0822393003	0822394003
	25	0822390004	0822391004	0822392004	0822393004	0822394004
	30	0822390005	0822391005	0822392005	0822393005	0822394005
	40	0822390006	0822391006	0822392006	0822393006	0822394006
	50	0822390007	0822391007	0822392007	0822393007	0822394007
	60	0822390008	0822391008	0822392008	0822393008	0822394008
	80	-	-	-	0822393009	0822394009
	100	-	-	-	0822393010	0822394010
	Piston Ø Piston rod thread Ports	50	63	80	100	
		M10 G 1/8	M10 G 1/8	M12 G 1/8	M16 G 1/8	
Stroke 5	0822395000	0822396000	0822397000	0822398000		
10	0822395001	0822396001	0822397001	0822398001		
15	0822395002	0822396002	0822397002	0822398002		
20	0822395003	0822396003	0822397003	0822398003		
25	0822395004	0822396004	0822397004	0822398004		
30	0822395005	0822396005	0822397005	0822398005		
40	0822395006	0822396006	0822397006	0822398006		
50	0822395007	0822396007	0822397007	0822398007		
60	0822395008	0822396008	0822397008	0822398008		
80	0822395009	0822396009	0822397009	0822398009		
100	0822395010	0822396010	0822397010	0822398010		

Configurable product



This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

Maximum permissible lateral force, Static



F_{stat} = static lateral force
X = spacing between force application point and cylinder cover

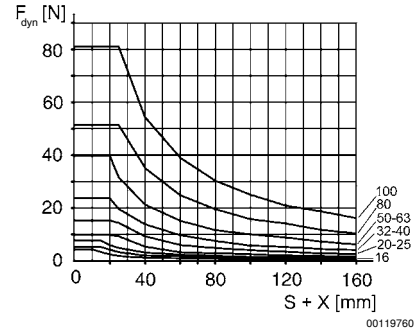
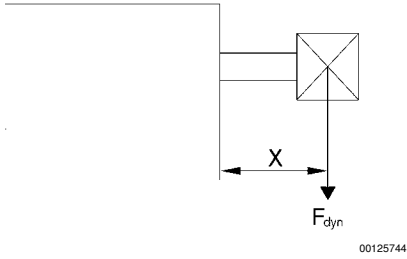
S = stroke

Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, Optionally through ▶ ATEX optional ▶ optionally heat-resistant

Maximum permissible lateral force, Dynamic



F_{dyn} = dynamic lateral force

X = spacing between force application point and cylinder cover

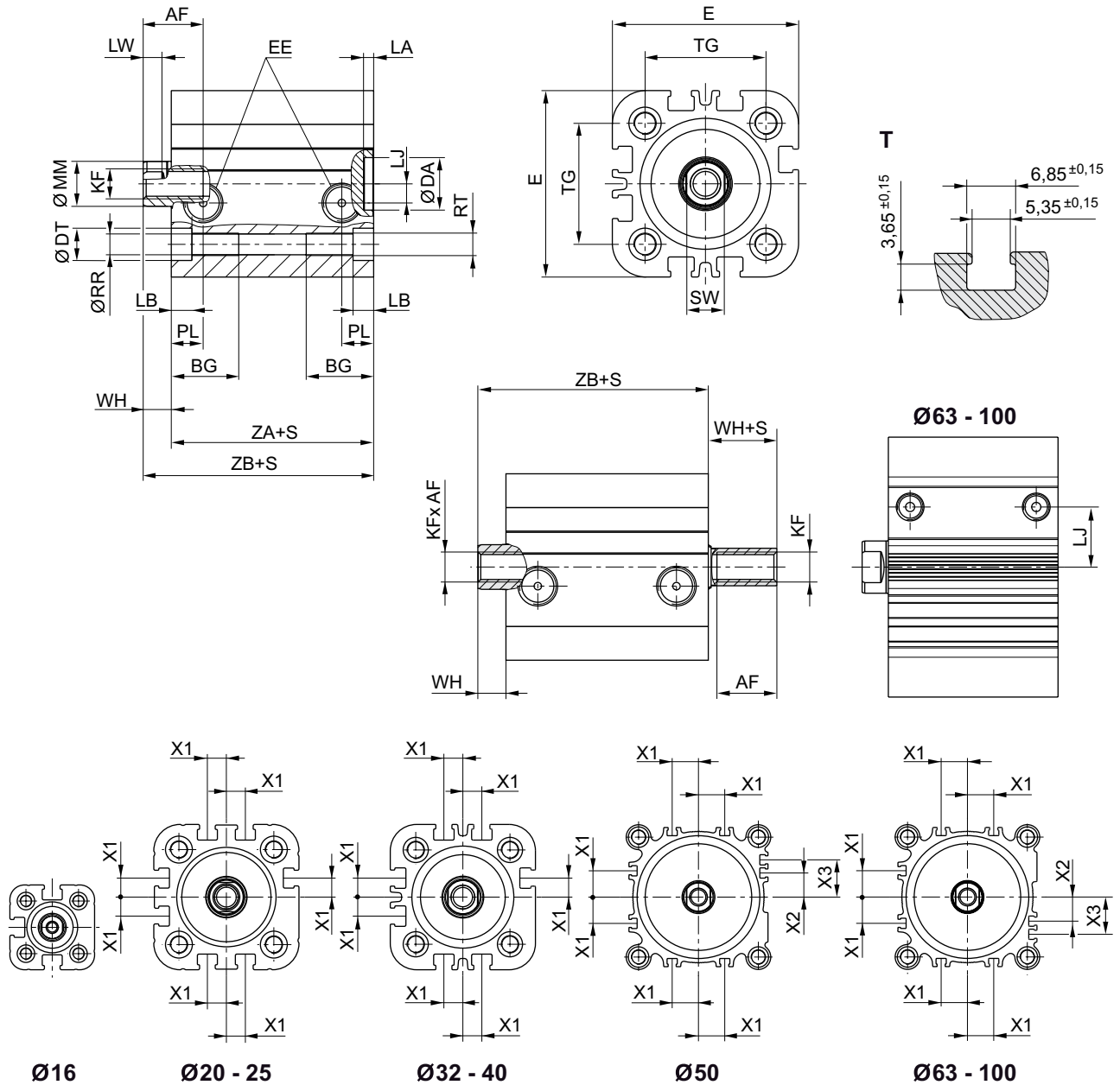
S = stroke

Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, Optionally through ▶ ATEX optional ▶ optionally heat-resistant

Dimensions



S = stroke
T = View for sensor groove

24274

Piston Ø	AF 1)	BG 1)	DA H11	DT H13	E	EE	KF	LA	LB	LJ	LW	MM f8
16	10	14.5	10	6	29.5	M5	M4	2.5	3.5	2.5	2.8	8
20	12	15.5	12	7.5	36	M5	M6	2.5	4.5	4.5	3.7	10
25	12	15.5	12	8	40	M5	M6	2.5	4.4	5	3.7	10
32	12	18	14	8.6	50	G 1/8	M8	2.5	5.5	5.1	5	12

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

Pneumatics catalog, online PDF, as of 2017-05-04, ©AVENTICS S.à r.l., subject to change

Piston rod cylinders ▶ Short-stroke and compact cylinders
Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, Optionally through ▶ ATEX optional ▶ optionally heat-resistant

Piston Ø	AF 1)	BG 1)	DA H11	DT H13	E	EE	KF	LA	LB	LJ	LW	MM f8
40	12	18	14	9	58	G 1/8	M8	2.5	5.5	9.6	5	12
50	16 12: S<4 mm 2)	24	18	11	68	G 1/8	M10	2.5	2	8.5	4.8	16
63	16 12: S<4 mm 2)	24	18	11	80	G 1/8	M10	2.5	2	17.8	4.8	16
80	20 15: S<5 mm 2)	28	23	14	99	G 1/8	M12	3	1	22.9	6.4	20
100	26 21: S<5 mm 2)	27.5	28	15	120	G 1/8	M16	3	3.5	26.5	6.4	25

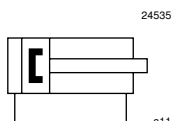
Piston Ø	PL	Ø RR	RT	SW	TG	WH	X1	X2	X3	ZA +S	ZB +S
16	7.5	3.3	M4	7	18 ±0,4	4.5	–	–	–	38	42,5 0/+1,4
20	7.5	4.2	M5	8	22 ±0,4	5	4.2	–	–	38	43 0/+1,4
25	7.5	4.2	M5	8	26 ±0,4	5.5	4.5	–	–	39	44,5 0/+1,4
32	8.5	5.1	M6	10	32 ±0,5	7	6.5	–	–	44	51 0/+1,6
40	8.5	5.1	M6	10	42 ±0,5	7	11	–	–	45	52 0/+1,6
50	8.5	6.7	M8	13	50 ±0,6	7.5	13	4	13	45.5	53 0/+1,6
63	8.5	6.7	M8	13	62 ±0,7	8	18	12	21	49	57 0/+2
80	8.3	8.5	M10	16	82 ±0,7	9.5	18	16.5	25.5	54.5	64 0/+2
100	9.7	8.5	M10	21	103 ±0,7	10.5	20	20	29	66.5	77 0/+2

1) Min.
2) Option: through piston rod
S = stroke

Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread, Optionally through (hollow) ▶ ATEX optional ▶ optionally heat-resistant



Standards	NFE 49004
Compressed air connection	Internal thread
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/m ³ - 5 mg/m ³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Nut for piston rod	Steel, galvanized

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 compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- ATEX-certified cylinders can be generated in the Internet configurator.
- ATEX ID: II 2G c IIB T4 II 2D c IP65 T125 °C X
- The operating temperature range for ATEX-certified cylinders is -20 °C ... 50 °C.
- The material for heat-resistant scraper and seal variants (ambient temperature: -10 °C/120 °C) is fluorocautchouc.
- Further options can be generated in the Internet configurator.

Piston Ø	[mm]	16	20	25	32	40
Retracting piston force	[N]	95	148	260	435	720
Extracting piston force	[N]	127	198	309	507	792
Impact energy	[J]	0.15	0.2	0.3	0.5	0.7
Stroke max.	[mm]	300	300	300	300	300
Working pressure min./max.	[bar]	1 - 10	1 - 10	1 - 10	0.6 - 10	0.6 - 10
Scraper material		Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing material		Nitrile butadiene rubber	Nitrile butadiene rubber	Nitrile butadiene rubber	Polyurethane	Polyurethane

Piston Ø	[mm]	50	63	80	100
Retracting piston force	[N]	1110	1837	2969	4639
Extracting piston force	[N]	1237	1964	3167	4948
Impact energy	[J]	1	1.3	1.8	2.5
Stroke max.	[mm]	300	300	500	500
Working pressure min./max.	[bar]	0.6 - 10	0.6 - 10	0.6 - 10	0.6 - 10
Scraper material		Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing material		Polyurethane	Polyurethane	Polyurethane	Polyurethane

Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread, Optionally through (hollow) ▶ ATEX optional ▶ optionally heat-resistant

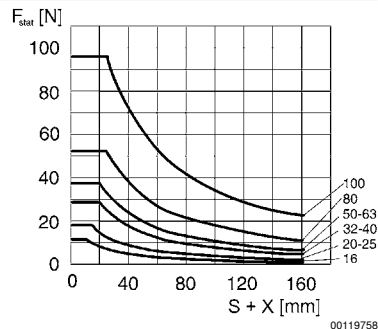
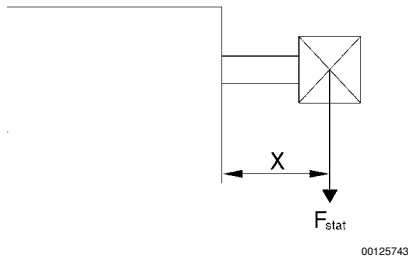
Piston Ø Piston rod thread Ports	16	20	25	32	40	
	M8 M5	M10x1,25 M5	M10x1,25 M5	M10x1,25 G 1/8	M10x1,25 G 1/8	
	Stroke 5	0822390200	0822391200	0822392200	0822393200	0822394200
	10	0822390201	0822391201	0822392201	0822393201	0822394201
	15	0822390202	0822391202	0822392202	0822393202	0822394202
	20	0822390203	0822391203	0822392203	0822393203	0822394203
	25	0822390204	0822391204	0822392204	0822393204	0822394204
	30	0822390205	0822391205	0822392205	0822393205	0822394205
	40	0822390206	0822391206	0822392206	0822393206	0822394206
	50	0822390207	0822391207	0822392207	0822393207	0822394207
	60	0822390208	0822391208	0822392208	0822393208	0822394208
	80	-	-	-	0822393209	0822394209
	100	-	-	-	0822393210	0822394210
Piston Ø Piston rod thread Ports	50	63	80	100		
	M12x1,25 G 1/8	M12x1,25 G 1/8	M16x1,5 G 1/8	M20x1,5 G 1/8		
Stroke 5	0822395200	0822396200	0822397200	0822398200		
10	0822395201	0822396201	0822397201	0822398201		
15	0822395202	0822396202	0822397202	0822398202		
20	0822395203	0822396203	0822397203	0822398203		
25	0822395204	0822396204	0822397204	0822398204		
30	0822395205	0822396205	0822397205	0822398205		
40	0822395206	0822396206	0822397206	0822398206		
50	0822395207	0822396207	0822397207	0822398207		
60	0822395208	0822396208	0822397208	0822398208		
80	0822395209	0822396209	0822397209	0822398209		
100	0822395210	0822396210	0822397210	0822398210		

Configurable product



This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

Maximum permissible lateral force, Static



F_{stat} = static lateral force

S = stroke

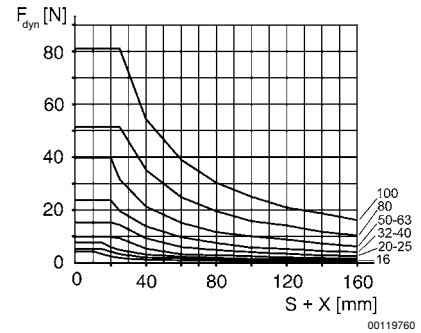
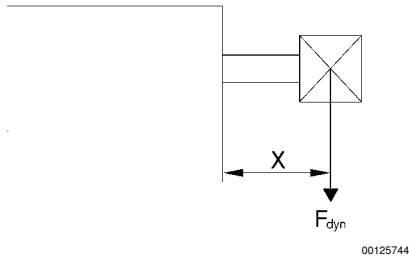
X = spacing between force application point and cylinder cover

Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread, Optionally through (hollow) ▶ ATEX optional ▶ optionally heat-resistant

Maximum permissible lateral force, Dynamic



F_{dyn} = dynamic lateral force

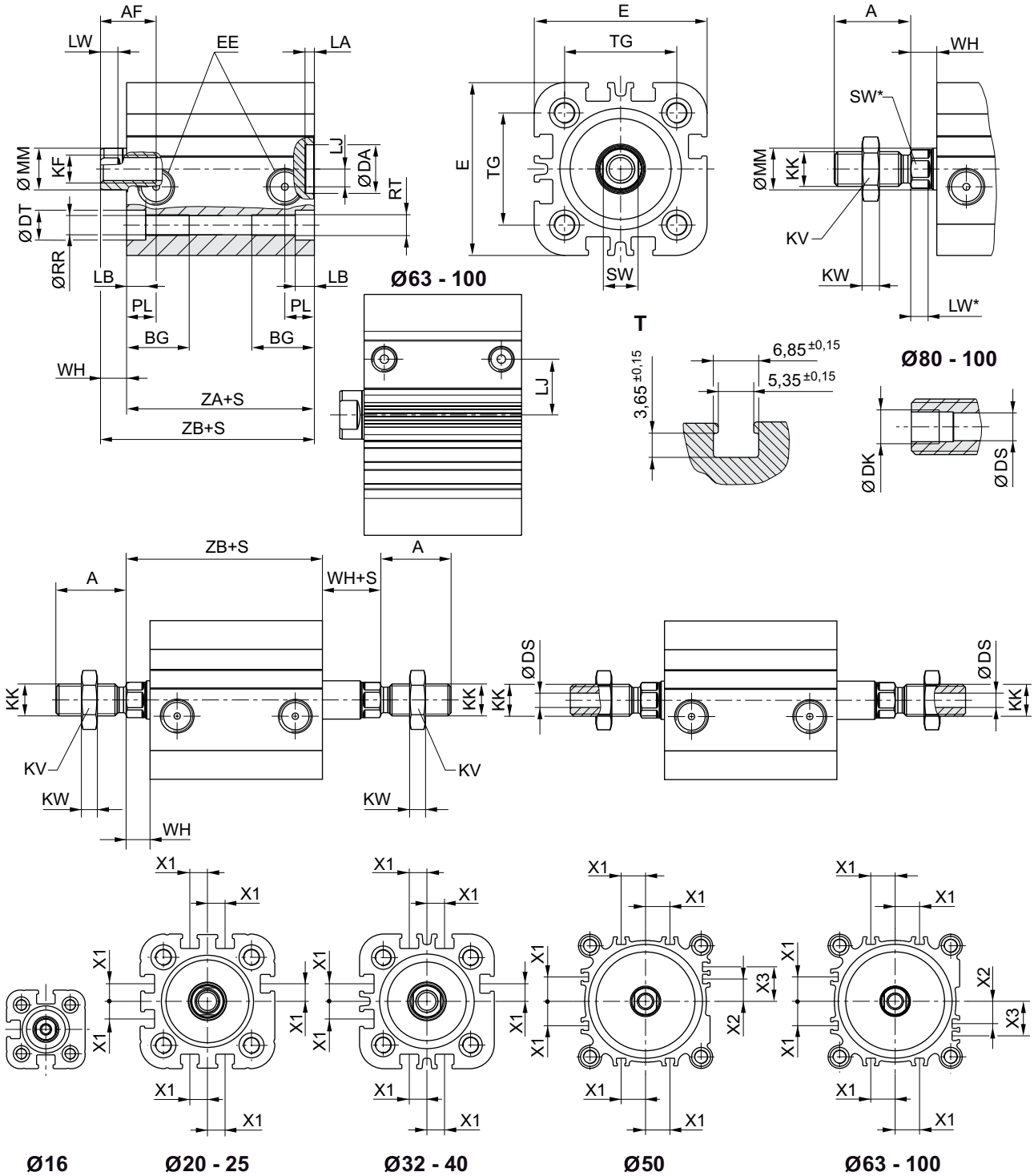
X = spacing between force application point and cylinder cover

S = stroke

Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread, Optionally through (hollow) ▶ ATEX optional ▶ optionally heat-resistant

Dimensions



S = stroke
T = View for sensor groove

Piston rod cylinders ▶ Short-stroke and compact cylinders
Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread, Optionally through (hollow) ▶ ATEX optional ▶ optionally heat-resistant

Piston Ø	A	BG 1)	DA H11	Ø DK	Ø DS	DT H13	E	EE	KK	KV	KW	LA	LB
16	20	14.5	10	-	-	6	29.5	M5	M8x1,25	13	4	2.5	3.5
20	22	15.5	12	-	3	7.5	36	M5	M10x1,25	16	5	2.5	4.5
25	22	15.5	12	-	3	8	40	M5	M10x1,25	16	5	2.5	4.4
32	22	18	14	-	4.5	8.6	50	G 1/8	M10x1,25	16	5	2.5	5.5
40	22	18	14	-	4.5	9	58	G 1/8	M10x1,25	16	5	2.5	5.5
50	24	24	18	-	6	11	68	G 1/8	M12x1,25	18	6	2.5	2
63	24	24	18	-	6	11	80	G 1/8	M12x1,25	18	6	2.5	2
80	32	28	23	G 1/8	8	14	99	G 1/8	M16x1,5	24	8	3	1
100	40	27.5	28	G 1/4	11.5	15	120	G 1/8	M20x1,5	30	10	3	3.5

Piston Ø	LJ	LW	MM f8	PL	Ø RR	RT	SW	TG	WH	X1	X2	X3	ZA +S
16	2.5	2.8	8	7.5	3.3	M4	7	18 ±0,4	4.5	-	-	-	38
20	4.5	3.7	10	7.5	4.2	M5	8	22 ±0,4	5	4.2	-	-	38
25	5	3.7	10	7.5	4.2	M5	8	26 ±0,4	5.5	4.5	-	-	39
32	5.1	5*	12	8.5	5.1	M6	10*	32 ±0,5	7	6.5	-	-	44
40	9.6	5*	12	8.5	5.1	M6	10*	42 ±0,5	7	11	-	-	45
50	8.5	4,8*	16	8.5	6.7	M8	13*	50 ±0,6	7.5	13	4	13	45.5
63	17.8	4,8*	16	8.5	6.7	M8	13*	62 ±0,7	8	18	12	21	49
80	22.9	6,4*	20	8.3	8.5	M10	16*	82 ±0,7	9.5	18	16.5	25.5	54.5
100	26.5	6,4*	25	9.7	8.5	M10	21*	103 ±0,7	10.5	20	20	29	66.5

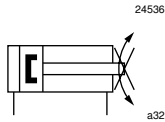
Piston Ø	ZB +S												
16	42,5 0/+1,4												
20	43 0/+1,4												
25	44,5 0/+1,4												
32	51 0/+1,6												
40	52 0/+1,6												
50	53 0/+1,6												
63	57 0/+2												
80	64 0/+2												
100	77 0/+2												

1) Min.
S = stroke
* Hexagonal wrench flats

Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: non-rotating, with front plate, Optionally through ▶ optionally heat-resistant



Standards	NFE 49004
Compressed air connection	Internal thread
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/m ³ - 5 mg/m ³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Front plate	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 compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- The material for heat-resistant scraper and seal variants (ambient temperature: -10 °C/120 °C) is fluorocautchouc.
- Further options can be generated in the Internet configurator.

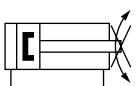
Piston Ø	[mm]	16	20	25	32	40
Retracting piston force	[N]	95	148	260	435	720
Extracting piston force	[N]	127	198	309	507	792
Impact energy	[J]	0.15	0.2	0.3	0.5	0.7
Stroke max.	[mm]	300	300	300	300	300
Working pressure min./max.	[bar]	1 - 10	1 - 10	1 - 10	0.6 - 10	0.6 - 10
Scraper material		Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing material		Nitrile butadiene rubber	Nitrile butadiene rubber	Nitrile butadiene rubber	Polyurethane	Polyurethane

Piston Ø	[mm]	50	63	80	100
Retracting piston force	[N]	1110	1837	2969	4639
Extracting piston force	[N]	1237	1964	3167	4948
Impact energy	[J]	1	1.3	1.8	2.5
Stroke max.	[mm]	300	300	300	300
Working pressure min./max.	[bar]	0.6 - 10	0.6 - 10	0.6 - 10	0.6 - 10
Scraper material		Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing material		Polyurethane	Polyurethane	Polyurethane	Polyurethane

Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: non-rotating, with front plate, Optionally through ▶ optionally heat-resistant

	Piston Ø Ports	16	20	25	32	40
		M5	M5	M5	G 1/8	G 1/8
	Stroke 5	0822390600	0822391600	0822392600	0822393600	0822394600
	10	0822390601	0822391601	0822392601	0822393601	0822394601
	15	0822390602	0822391602	0822392602	0822393602	0822394602
	20	0822390603	0822391603	0822392603	0822393603	0822394603
	25	0822390604	0822391604	0822392604	0822393604	0822394604
	30	0822390605	0822391605	0822392605	0822393605	0822394605
	40	0822390606	0822391606	0822392606	0822393606	0822394606
	50	0822390607	0822391607	0822392607	0822393607	0822394607
	60	0822390608	0822391608	0822392608	0822393608	0822394608
	80	-	-	-	0822393609	0822394609
	100	-	-	-	0822393610	0822394610
	Piston Ø Ports	50	63	80	100	
		G 1/8	G 1/8	G 1/8	G 1/8	
	Stroke 5	0822395600	0822396600	0822397600	0822398600	
	10	0822395601	0822396601	0822397601	0822398601	
	15	0822395602	0822396602	0822397602	0822398602	
	20	0822395603	0822396603	0822397603	0822398603	
	25	0822395604	0822396604	0822397604	0822398604	
30	0822395605	0822396605	0822397605	0822398605		
40	0822395606	0822396606	0822397606	0822398606		
50	0822395607	0822396607	0822397607	0822398607		
60	0822395608	0822396608	0822397608	0822398608		
80	0822395609	0822396609	0822397609	0822398609		
100	0822395610	0822396610	0822397610	0822398610		

Configurable product

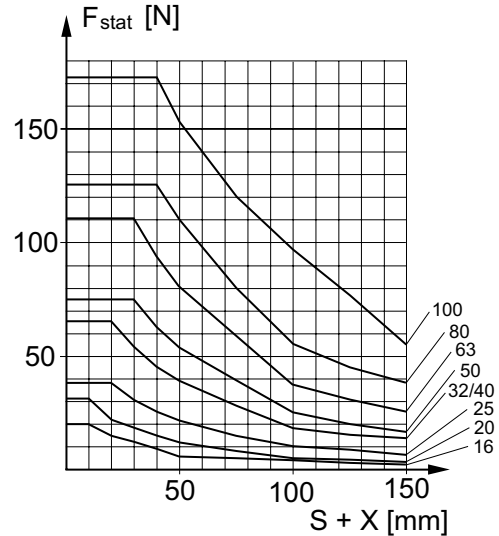
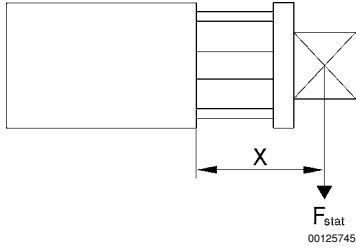


This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: non-rotating, with front plate, Optionally through ▶ optionally heat-resistant

Maximum permissible lateral force, Static



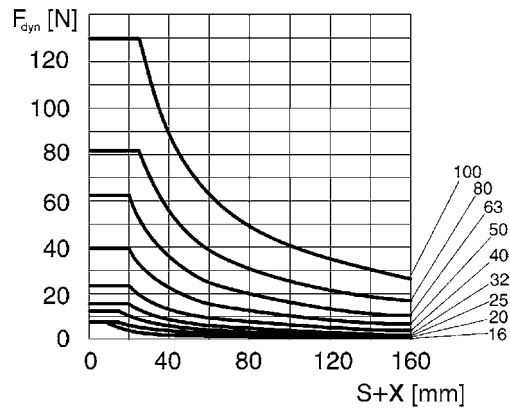
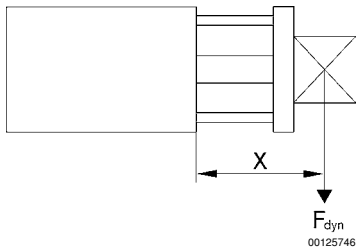
00119757

F_{stat} = static lateral force

X = spacing between force application point and cylinder cover

S = stroke

Maximum permissible lateral force, Dynamic



00119761

F_{dyn} = dynamic lateral force

X = spacing between force application point and cylinder cover

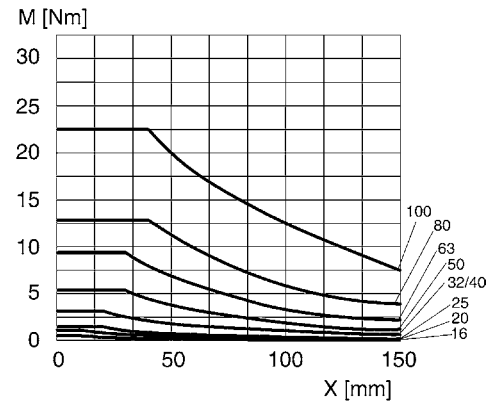
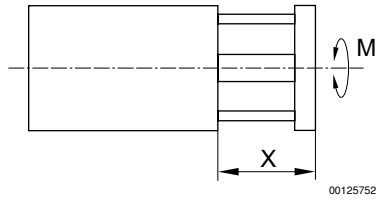
S = stroke

Piston rod cylinders ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: non-rotating, with front plate, Optionally through ▶ optionally heat-resistant

Max. permissible torque



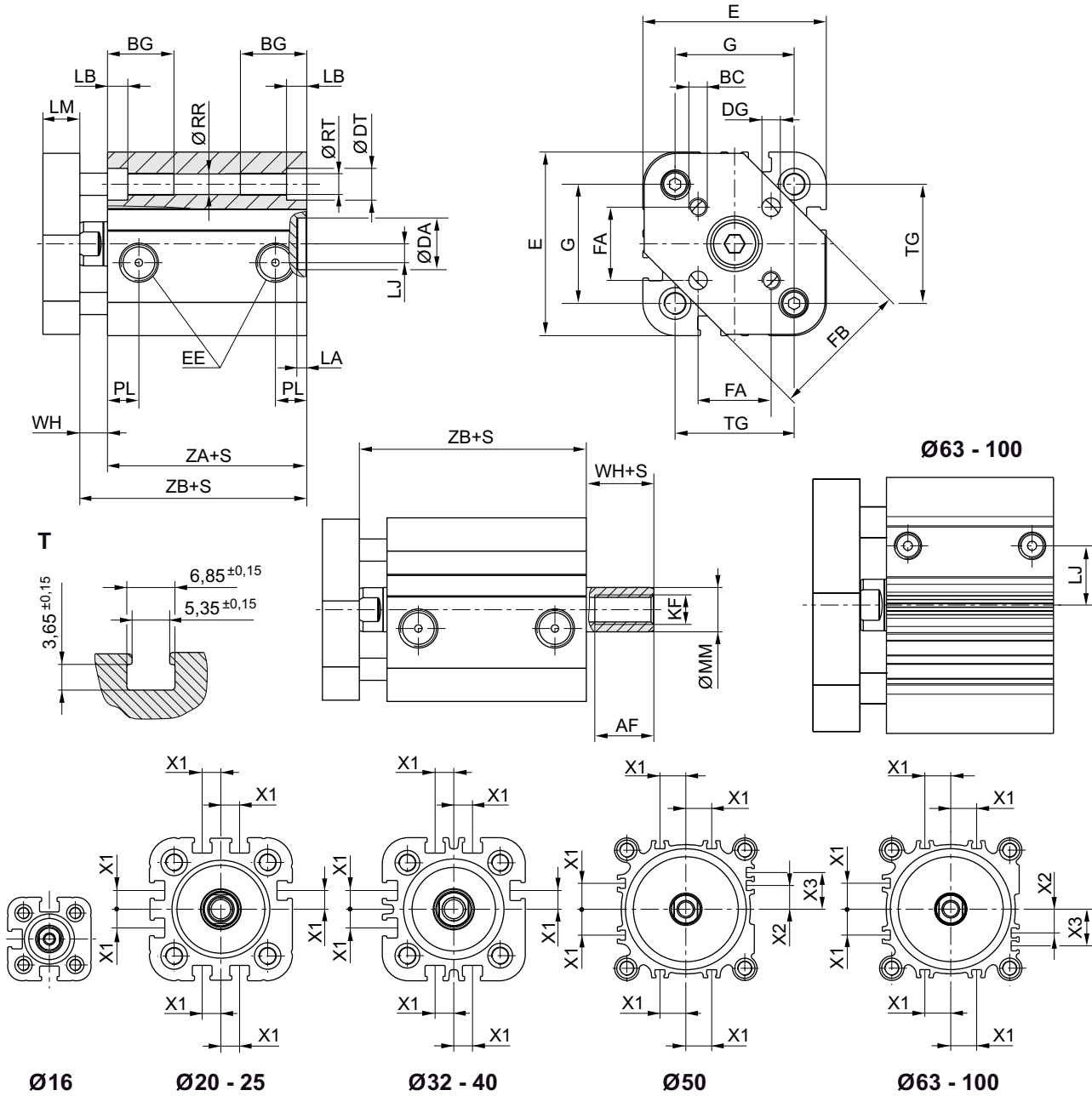
M = max. permissible torque

X = spacing between force application point and cylinder cover

Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: non-rotating, with front plate, Optionally through ▶ optionally heat-resistant

Dimensions



S = stroke
T = View for sensor groove without guide plate

Piston Ø	AF 1)	BC	BG 1)	DA H11	DG H13	DT H13	E	EE	FA ±0,1	FB	G	KF
16	10	M3	14.5	10	3	6	29.5	M5	9.9	20	19	M4
20	12	M4	15.5	12	4	7.5	36	M5	12	24	25	M6
25	12	M5	15.5	12	5	8	40	M5	15.6	30	27	M6
	10: S<3 mm 2)											

Piston rod cylinders ▶ Short-stroke and compact cylinders
Compact cylinder, Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: non-rotating, with front plate, Optionally through ▶ optionally heat-resistant

Piston Ø	AF 1)	BC	BG 1)	DA H11	DG H13	DT H13	E	EE	FA ±0,1	FB	G	KF
32	12	M5	18	14	5	8.6	50	G 1/8	19.8	38	32	M8
40	12	M5	18	14	5	9	58	G 1/8	23.3	44	42	M8
50	16 12: S<4 mm 2)	M6	24	18	6	11	68	G 1/8	29.7	54	50	M10
63	16 12: S<4 mm 2)	M6	24	18	6	11	80	G 1/8	35.4	62	62	M10
80	20 15: S<3 mm 2)	M8	28	23	8	14	99	G 1/8	46	80	82	M12
100	26 21: S<5 mm 2)	M10	27.5	28	10	15	120	G 1/8	56.6	100	103	M16

Piston Ø	LA	LB	LJ	LM	MM f8	PL	Ø RR	RT	TG	WH	X1	X2	X3
16	2.5	3.5	2.5	6	8	7.5	3.3	M4	18 ±0,4	4.5	-	-	-
20	2.5	4.5	4.5	8	10	7.5	4.2	M5	22 ±0,4	5	4.2	-	-
25	2.5	4.4	5	8	10	7.5	4.2	M5	26 ±0,4	5.5	4.5	-	-
32	2.5	5.5	5.1	10	12	8.5	5.1	M6	32 ±0,5	7	6.5	-	-
40	2.5	5.5	9.6	10	12	8.5	5.1	M6	42 ±0,5	7	11	-	-
50	2.5	2	8.5	12	16	8.5	6.7	M8	50 ±0,6	7.5	13	4	13
63	2.5	2	17.8	12	16	8.5	6.7	M8	62 ±0,7	8	18	12	21
80	3	1	22.9	14	20	8.3	8.5	M10	82 ±0,7	9.5	18	16.5	25.5
100	3	3.5	26.5	14	25	9.7	8.5	M10	103 ±0,7	10.5	20	20	29

Piston Ø	ZA +S	ZB +S											
16	38	42,5 0/+1,4											
20	38	43 0/+1,4											
25	39	44,5 0/+1,4											
32	44	51 0/+1,6											
40	45	52 0/+1,6											
50	45.5	53 0/+1,6											
63	49	57 0/+2											
80	54.5	64 0/+2											
100	66.5	77 0/+2											

1) Min.

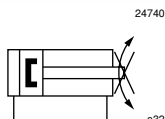
2) Option: through piston rod

S = stroke

Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, non-rotating, Optionally through (hollow) ▶ ATEX optional



Standards	NFE 49004
Compressed air connection	Internal thread
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/m ³ - 5 mg/m ³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	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 compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- Use our Internet configurator to order variants with an external thread.


Piston Ø	[mm]	20	25	32	40	50
Retracting piston force	[N]	148	260	435	720	1110
Extracting piston force	[N]	198	309	507	792	1237
Impact energy	[J]	0.2	0.3	0.5	0.7	1
Stroke max.	[mm]	300	300	300	300	300
Working pressure min./max.	[bar]	1 - 10	1 - 10	0.6 - 10	0.6 - 10	0.6 - 10
Scraper material		Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing material		Nitrile butadiene rubber	Nitrile butadiene rubber	Polyurethane	Polyurethane	Polyurethane

Piston Ø	[mm]	63				
Retracting piston force	[N]	1827				
Extracting piston force	[N]	8736.65				
Impact energy	[J]	1.76				
Stroke max.	[mm]	300				
Working pressure min./max.	[bar]	0.6 - 10				
Scraper material		Polyurethane				
Sealing material		Polyurethane				

Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, non-rotating, Optionally through (hollow) ▶ ATEX optional

	Piston Ø Piston rod thread Ports	20	25	32	40	50	
		M6 M5	M6 M5	M8 G 1/8	M8 G 1/8	M10 G 1/8	
	Stroke 5	0822391900	0822392900	0822393900	0822394900	0822395900	
	10	0822391901	0822392901	0822393901	0822394901	0822395901	
	15	0822391902	0822392902	0822393902	0822394902	0822395902	
	20	0822391903	0822392903	0822393903	0822394903	0822395903	
	25	0822391904	0822392904	0822393904	0822394904	0822395904	
	30	0822391905	0822392905	0822393905	0822394905	0822395905	
	40	0822391906	0822392906	0822393906	0822394906	0822395906	
	50	0822391907	0822392907	0822393907	0822394907	0822395907	
	60	0822391908	0822392908	0822393908	0822394908	0822395908	
	80	0822391909	0822392909	0822393909	0822394909	0822395909	
	100	0822391910	0822392910	0822393910	0822394910	0822395910	
		Piston Ø Piston rod thread Ports	63 M10 G 1/8				
	Stroke 5	0822396900					
	10	0822396901					
	15	0822396902					
	20	0822396903					
	25	0822396904					
	30	0822396905					
	40	0822396906					
50	0822396907						
60	0822396908						
80	0822396909						
100	0822396910						

Configurable product

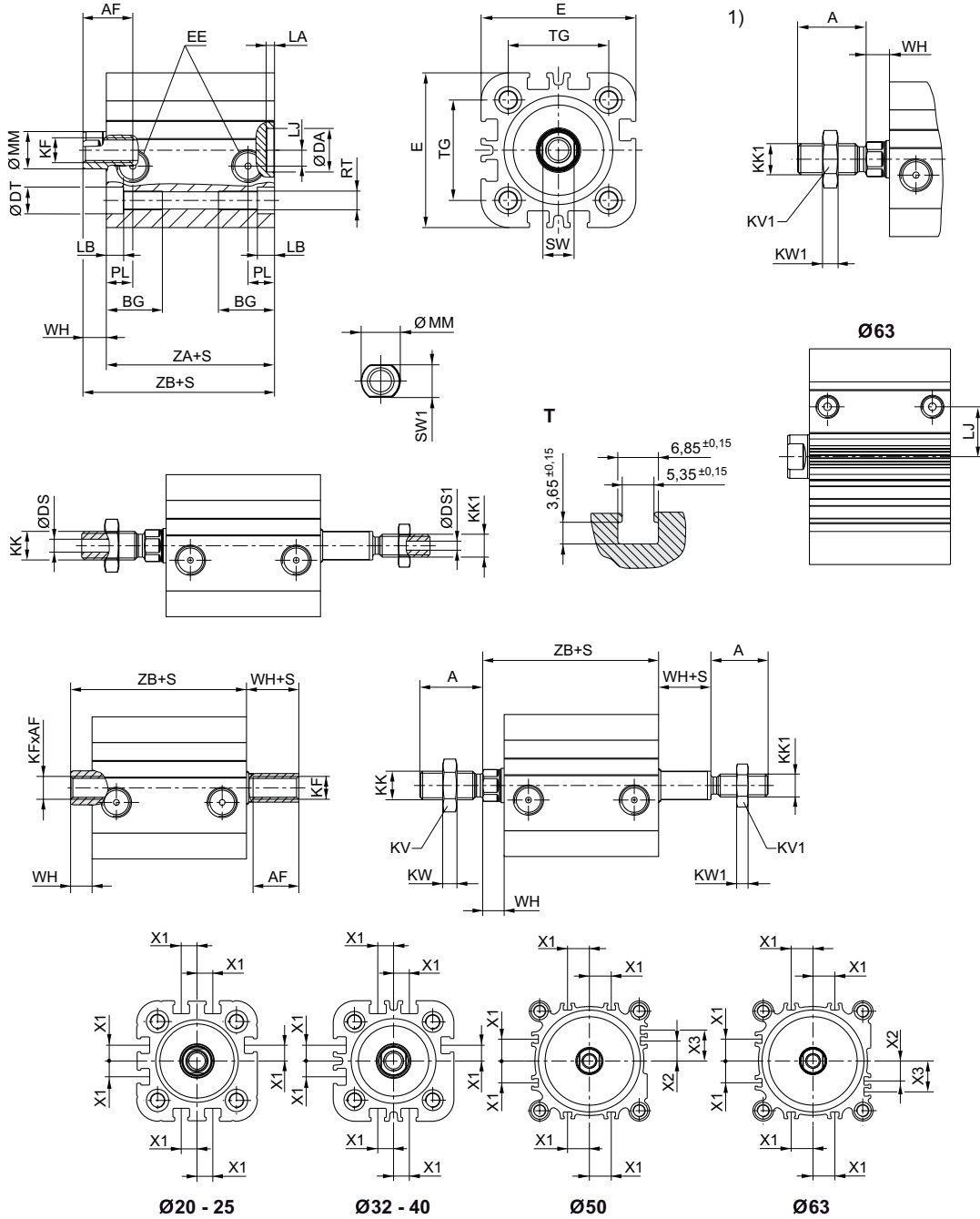


This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

Series KPZ

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, non-rotating, Optionally through (hollow) ▶ ATEX optional

Dimensions



S = stroke
 T = View for sensor groove
 1) external thread
 Use our Internet configurator to order variants with an external thread.

IM0041581

Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ

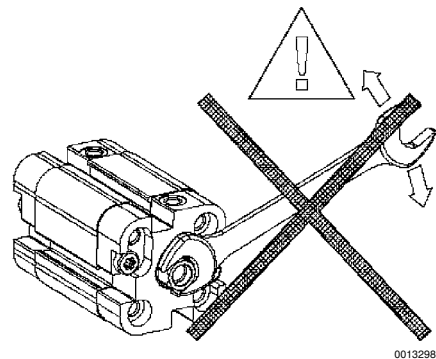
▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, non-rotating, Optionally through (hollow) ▶ ATEX optional

Piston Ø	A	AF 1)	BG 1)	Ø DA H11	Ø DS	Ø DS1	Ø DT H13	E	EE	KF	KK	KK1
20	22	12 10: S<3 mm 2)	15.5	12	3	-	7.5	36	M5	M6	M10x1,25	M8x1,25
25	22	12 10: S<3 mm 2)	15.5	12	3	-	8	40	M5	M6	M10x1,25	M8x1,25
32	22	12	18	14	4.5	3	8.6	50	G 1/8	M8	M10x1,25	M8x1,25
40	22	12	18	14	4.5	3	9	58	G 1/8	M8	M10x1,25	M8x1,25
50	24	16 12: S<4 mm 2)	24	18	6	6	11	68	G 1/8	M10	M12x1,25	M10x1,25
63	24	16 12: S<4 mm 2)	24	18	6	6	11	80	G 1/8	M10	M12x1,25	M10x1,25

Piston Ø	KV	KV1	KW	KW1	LA	LB	LJ	LW	MM f8	PL	RT	SW	SW1
20	16	13	5	4	2.5	4.5	4.5	3.7	10	7.5	M5	8	8
25	16	13	5	4	2.5	4.4	5	3.7	10	7.5	M5	8	8
32	16	13	5	4	2.5	5.5	5.1	5	12	8.5	M6	10	10
40	16	13	5	4	2.5	5.5	9.6	5	12	8.5	M6	10	10
50	18	16	6	5	2.5	2	8.5	5.7	16	8.5	M8	13	13
63	18	16	6	5	2.5	2	17.8	5.7	16	8.5	M8	13	13

Piston Ø	TG	WH	X1	X2	X3	ZA +S	ZB+S						
20	22 ±0,4	5	4.2	-	-	38	43 0/+1,4						
25	26 ±0,4	5.5	4.5	-	-	39	44,5 0/+1,6						
32	32 ±0,5	7	6.5	-	-	44	51 0/+1,6						
40	42 ±0,5	7	11	-	-	45	52 0/+1,6						
50	50 ±0,6	7.5	13	4	13	45.5	53 0/+1,6						
63	62 ±0,7	8	18	12	21	49	57 ±2						

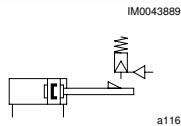
1) Min.
2) Option: through piston rod
S = stroke



Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ with integrated holding unit

▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ with integrated holding unit ▶ Piston rod: Internal thread



Compressed air connection

Internal thread

Working pressure min./max.

2 bar / 8 bar

Ambient temperature min./max.

-10 °C / +60 °C

Medium temperature min./max.

-10 °C / +60 °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

Aluminum

End cover

Aluminum

Seal

Polyurethane

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 compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- Warning: The holding unit may not be used for the following applications:- for dynamic holding- as safety equipment
- Holding unit may only be unlocked when turned off.
- Make sure that the load direction does not change during a holding interval. A change in the direction of force, as well as external forces such as impacts, strong vibrations, or torsional forces, will briefly release the piston rod and may destroy the HU1 holding unit.
- When clamped, there must be no residual pressure on the holding unit (0 bar).
- NOTE: The minimum control pressure is \geq working pressure!
- Use our Internet configurator to order variants with an external thread.

Piston Ø	[mm]	20	25	32	40	50	
Retracting piston force	[N]	148	260	435	665	1039	
Extracting piston force	[N]	198	309	507	792	1237	
Impact energy	[J]	0.2	0.3	0.5	0.7	1	
Weight	0 mm stroke	[kg]	0.27	0.29	0.56	0.88	1.25
	+10 mm stroke	[kg]	0.02	0.03	0.04	0.06	0.08
Stroke max.	[mm]	300	300	300	300	300	
Axial play	[mm]	0.3	0.3	0.3	0.3	0.35	
Min. holding force at 0 bar	[N]	400	400	650	1100	1600	

Piston Ø	[mm]	63	80	100		
Retracting piston force	[N]	1766	2857	4639		
Extracting piston force	[N]	1964	3167	4948		
Impact energy	[J]	1.3	1.8	2.5		
Weight	0 mm stroke	[kg]	1.6	3	5	
	+10 mm stroke	[kg]	0.09	0.12	0.15	
Stroke max.	[mm]	300	500	500		
Axial play	[mm]	0.35	0.35	0.35		
Min. holding force at 0 bar	[N]	2500	4000	6300		

Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ with integrated holding unit

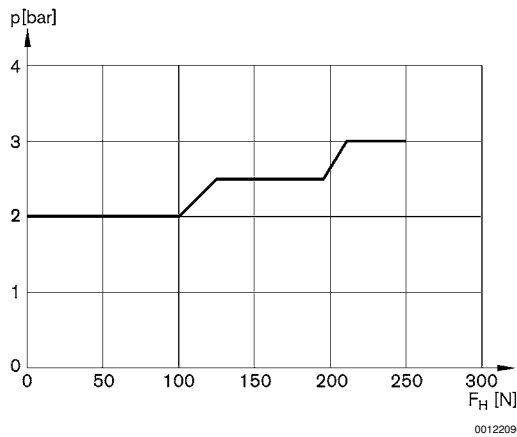
▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ with integrated holding unit ▶ Piston rod: Internal thread

Configurable product



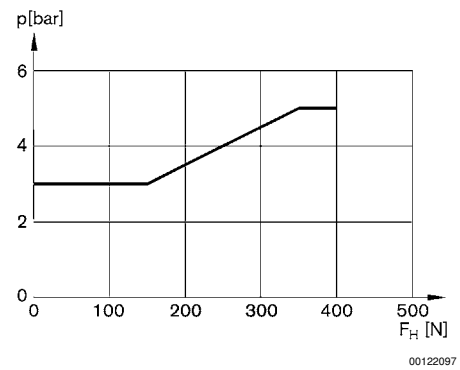
This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

Holding force for piston Ø 20



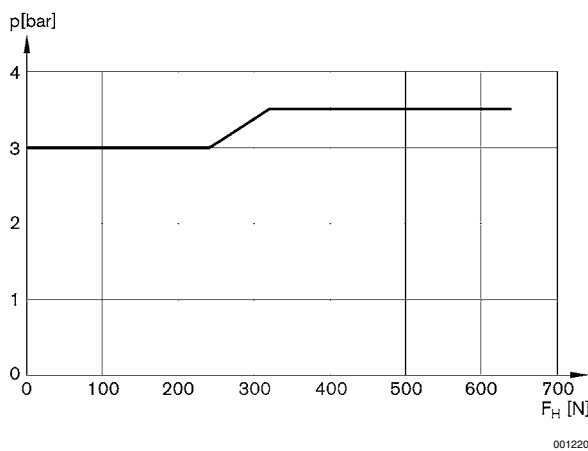
p = release pressure for holding unit
FH = holding force of cylinder

Holding force for piston Ø 25



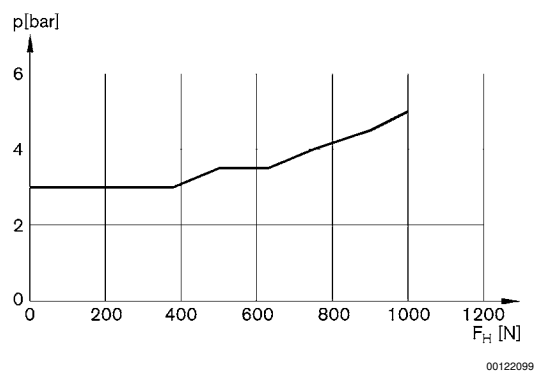
p = release pressure for holding unit
FH = holding force of cylinder

Holding force for piston Ø 32



p = release pressure for holding unit
FH = holding force of cylinder

Holding force for piston Ø 40

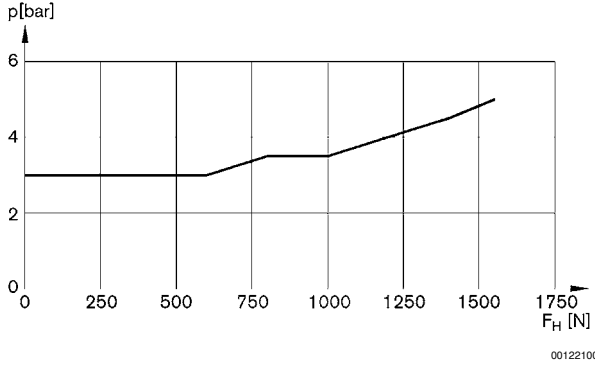


p = release pressure for holding unit
FH = holding force of cylinder

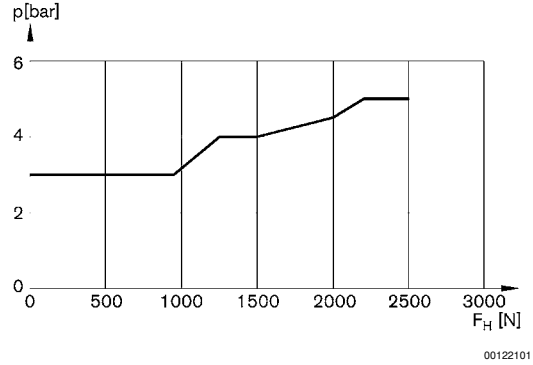
Series KPZ with integrated holding unit

> double-acting > with magnetic piston > Cushioning: elastic > with integrated holding unit > Piston rod: Internal thread

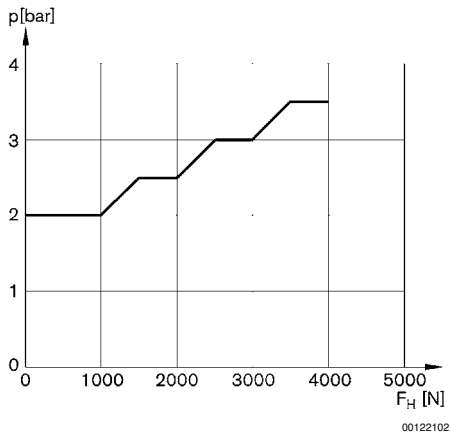
Holding force for piston Ø 50



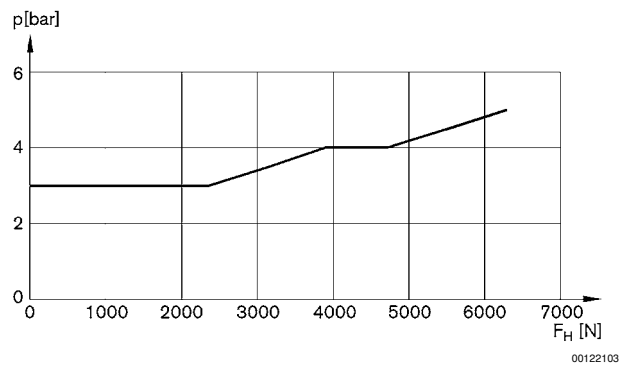
Holding force for piston Ø 63



Holding force for piston Ø 80



Holding force for piston Ø 100

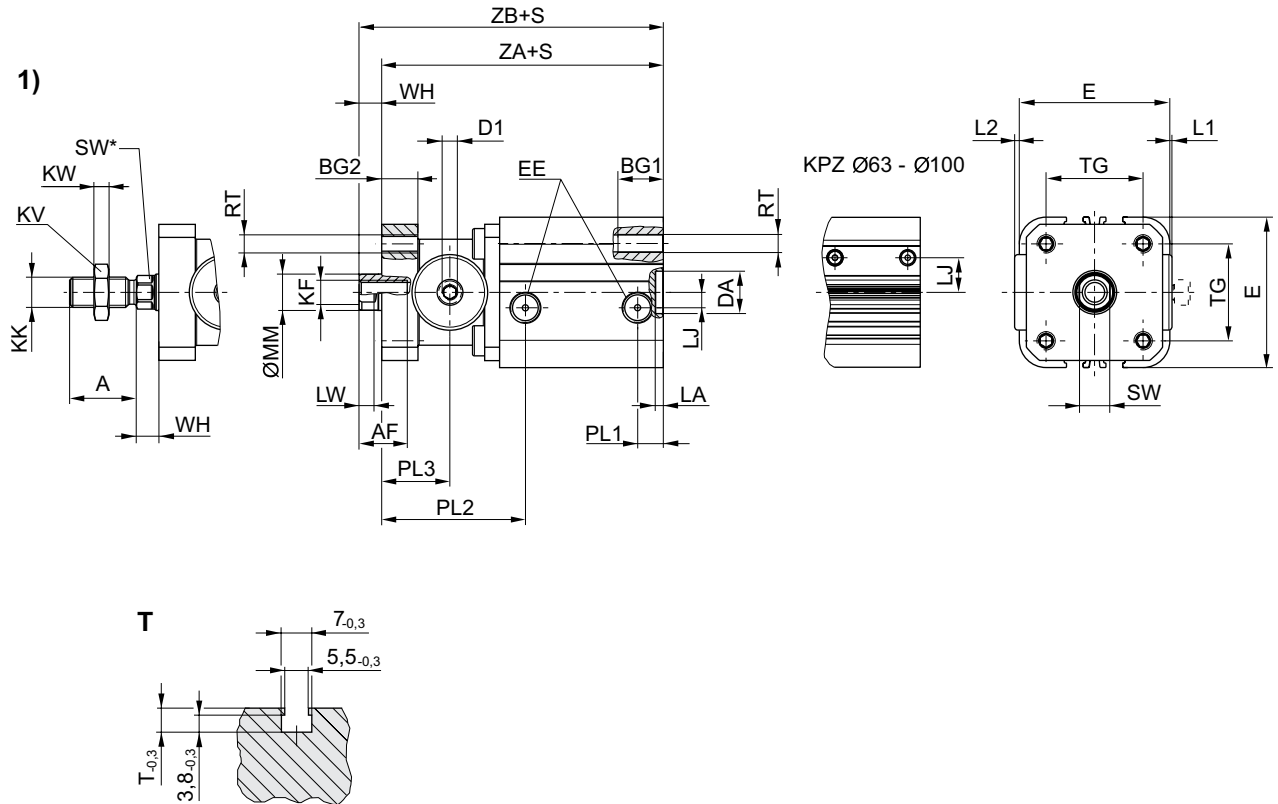


Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ with integrated holding unit

▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ with integrated holding unit ▶ Piston rod: Internal thread

Dimensions



S = stroke

T = View for sensor groove

1) external thread

Use our Internet configurator to order variants with an external thread.

00132981

Ø	A	AF 1)	BG1 1)	BG2	Ø D1	DA H11	E	EE	KF	KK	KV	KW
20	22	12	15.5	15	M5	12	36	M5	M6	M10x1,25	16	5
25	22	12	15.5	10	M5	12	40	M5	M6	M10x1,25	16	5
32	22	12	18	12	M5	14	50	G 1/8	M8	M10x1,25	16	5
40	24	16	18	20	G 1/8	14	58	G 1/8	M10	M12x1,25	18	6
50	32	20	24	25	G 1/8	18	68	G 1/8	M12	M16x1,5	24	8
63	32	20	24	18	G 1/8	18	80	G 1/8	M12	M16x1,5	24	8
80	40	26	28	20	G 1/8	23	100	G 1/8	M16	M20x1,5	30	10
100	40	26	27.5	20	G 1/8	28	120	G 1/8	M16	M20x1,5	30	10

Ø	L1	L2	LA	LJ	LW	MM	PL1	PL2	PL3	RT	SW	SW*
20	3	1	2.5	4.5	3.5	10	5.5	43	21	M5	8	—
25	1	—	2.5	5	3.5	10	5.5	39	20.5	M5	8	—
32	0.5	—	2.5	5	5	12	8.5	47.5	22.5	M6	10	10
40	1	—	2.5	9.5	6	16	8.5	63.5	34.5	M6	13	13
50	2	—	2.5	8.5	7	20	8.5	72	38.5	M8	16	16
63	—	—	2.5	18	7	20	8.5	62.5	33	M8	16	16
80	—	—	3	23	7.5	25	8.3	77	40	M10	20	20
100	—	—	3	26.5	7.5	25	9.7	91	45.5	M10	20	20

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

Pneumatics catalog, online PDF, as of 2017-05-04, ©AVENTICS S.à r.l., subject to change

Piston rod cylinders ▶ Short-stroke and compact cylinders
Series KPZ with integrated holding unit

▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ with integrated holding unit ▶ Piston rod:
Internal thread

\varnothing	TG	WH	ZA+S	ZB+S								
20	22 ±0,4	5.5	65 ±0,5	70,5 ±1,4								
25	26 ±0,4	5.5	66,5 ±0,5	72 ±1,4								
32	32 ±0,5	7	83 ±0,5	90 ±1,6								
40	42 ±0,5	9.5	95 ±0,5	104,5 ±1,6								
50	50 ±0,6	10	104,5 ±0,5	114,5 ±1,6								
63	62 ±0,7	10	97,5 ±0,5	107,5 ±2								
80	82 ±0,7	12	122,5 ±0,5	134,5 ±2								
100	103 ±0,7	12	143,5 ±0,5	155,5 ±2								

1) Min.
* Hexagonal wrench flats

Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ-Multiple position

▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, Reinforced ▶ multi-position cylinder: 3 positions



IM0043903

Compressed air connection	Internal thread
Working pressure min./max.	1 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	Aluminum
End cover	Aluminum
Seal	Polyurethane
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 compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- In case of tensile load, positioning for intermediate strokes is only possible with counter pressure in the front chamber.
- Use our Internet configurator to order variants with an external thread.

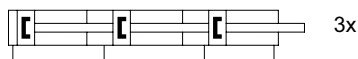
Piston Ø	[mm]	25	40	63	100
Retracting piston force	[N]	260	665	1766	4639
Extracting piston force	[N]	309	792	1964	4948
Impact energy	[J]	0.3	0.7	1.3	2.5
Max. single stroke	[mm]	400	850	850	850
Stroke max.	[mm]	400	2000	2000	2000

Configurable product



This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

Circuit symbol

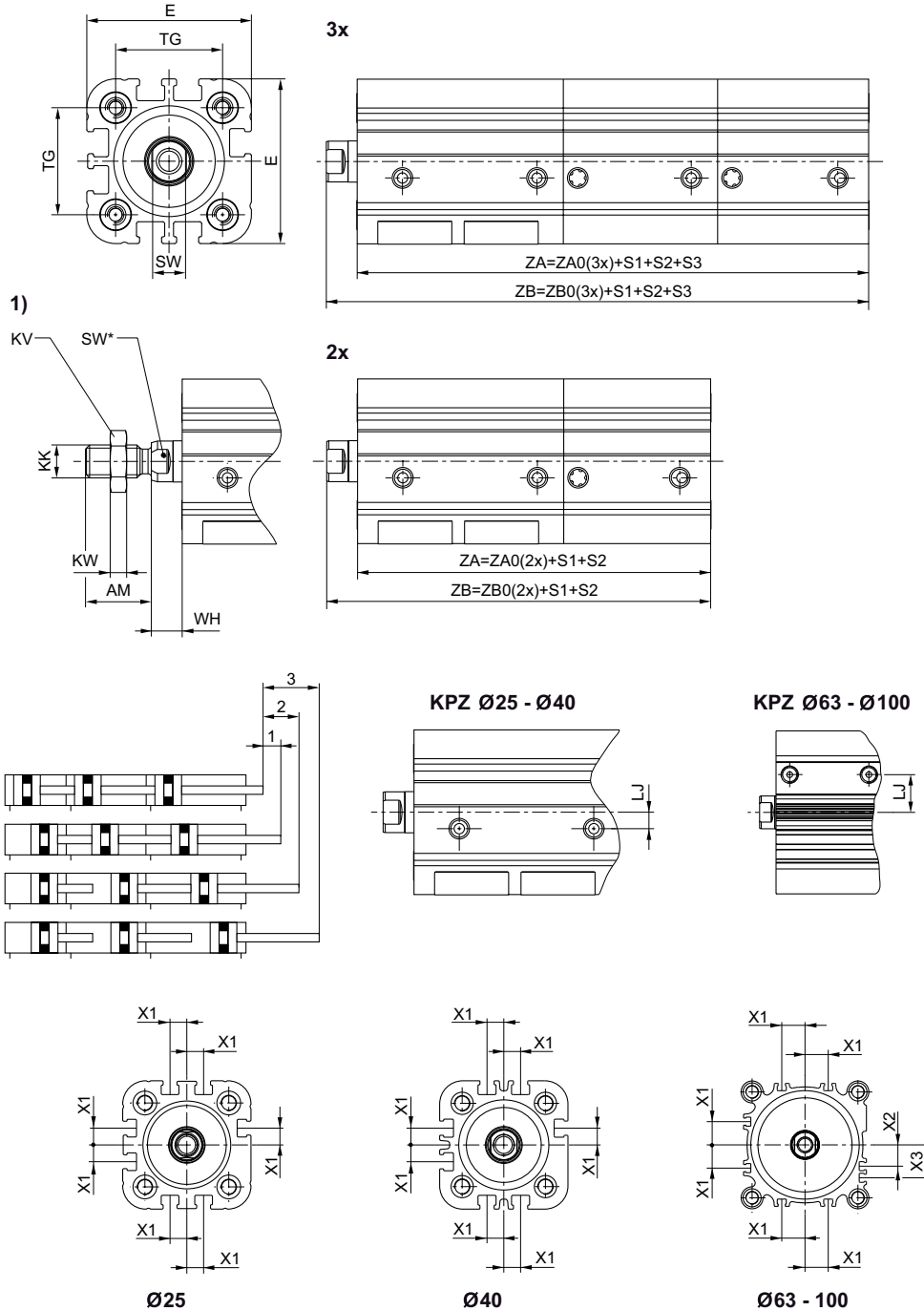


IM0043521

Series KPZ-Multiple position

▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, Reinforced ▶ multi-position cylinder: 3 positions

Dimensions



S = stroke
 T = View for sensor groove
 1) external thread
 Use our Internet configurator to order variants with an external thread.

00132976

Piston rod cylinders ▶ Short-stroke and compact cylinders
Series KPZ-Multiple position

▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, Reinforced ▶ multi-position cylinder: 3 positions

Ø	AF 1)	AM (2)	BG 1)	DA H11	E	EE	KF 6H	KK	KV	KW	LA	LB 2)
25	14	22 (44)	15.5	12	40	M5	M6	M10x1,25	16	5	2.5	3.5
40	20	24 (48)	17	14	58	M5	M10	M12x1,25	18	6	2.5	4
63	20	32 (64)	18	18	80	G 1/8	M12	M16x1,5	24	8	2.5	5.5
100	26	40 (80)	20	28	120	G 1/8	M16	M20x1,5	30	10	3	6.5

Ø	LJ	MM f8	PL 1	PL 2	PL 3	PL4	RT	SW h13	SW*	TG	WH	X1
25	4	10	7.5	7.5	42.6	75.1	M5	8	-	26 ±0,4	7,5 ±1,4	4.5
40	9.5	16	12.5	14.5	61.6	99.6	M6	13	13	42 ±0,5	9,5 ±1,6	11
63	17.8	20	11.5	19	66.4	108.9	M8	16	16	62 ±0,7	10 ±1,6	18
100	26.5	25	13.8	24.8	87.1	145.1	M10	21	21	103 ±0,7	12 ±2,0	20

Ø	X2	X3	ZA0 (2x) ±0,5	ZA0 (3x) ±0,8	ZB0 (2x)	ZB0 (3x)					
25	-	-	78	110,5	85,5 ±1,4	118 ±1,4					
40	-	-	102,5	140,5	112 ±1,6	150 ±1,6					
63	12	21	116	158,5	126 ±1,6	168,5 ±1,6					
100	20	29	154,5	212,5	166,5 ±2,0	224,5 ±2,0					

1) Min.

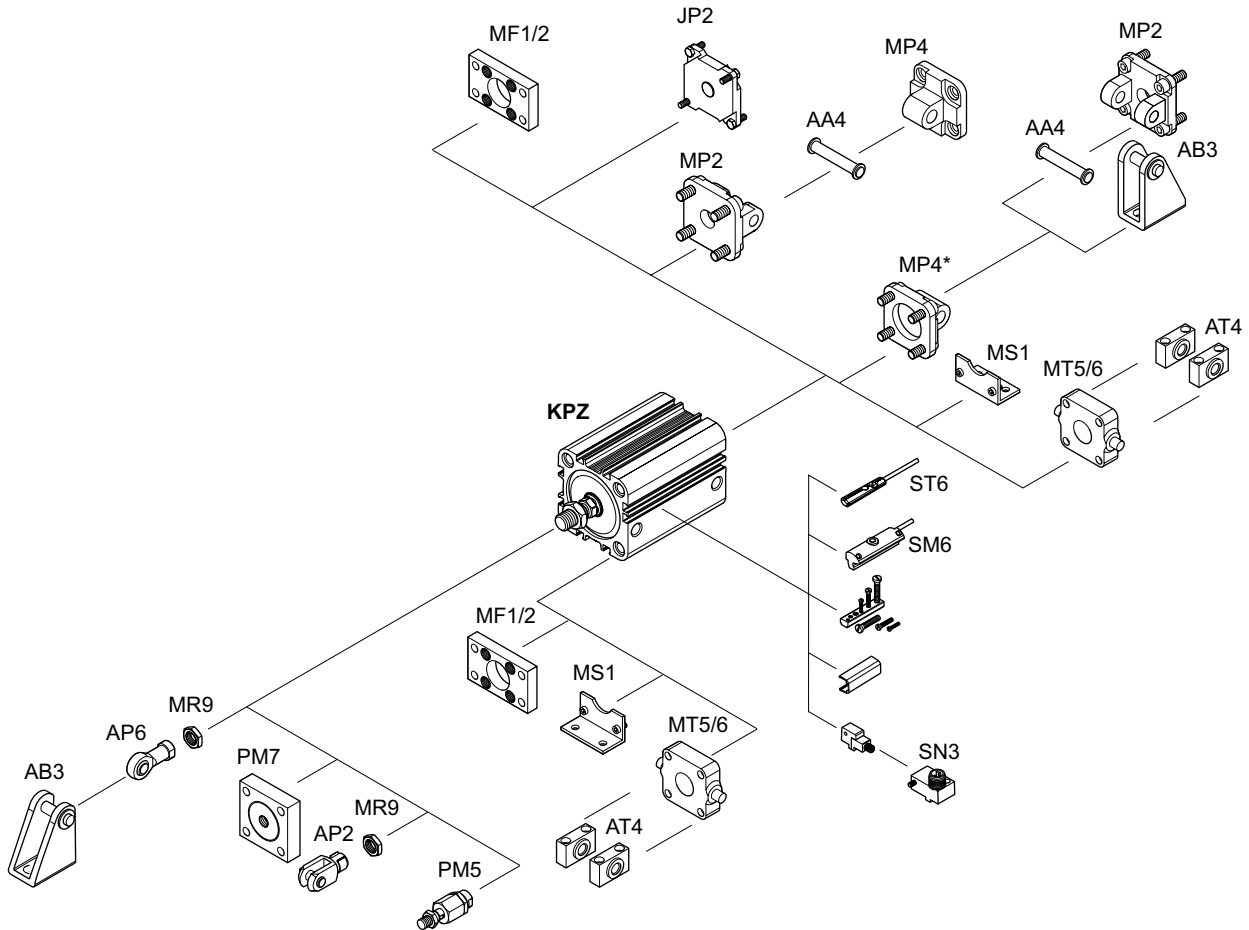
2) Max.

* Hexagonal wrench flats

Series KPZ
 Accessories

Accessories overview

Overview drawing



00136563

* Available for installation on KPZ for cylinder diameters 16 - 25 mm

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.

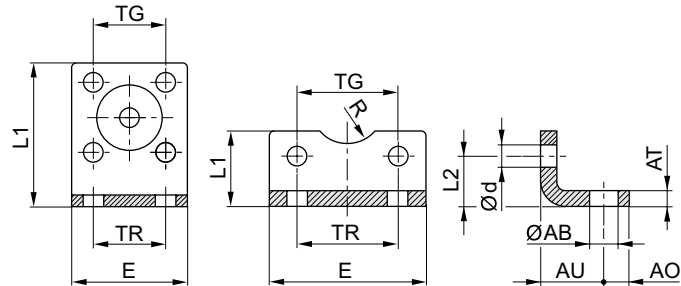
Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ Accessories

Foot mounting, Series MS1



00105808


Ø16
Ø20 - 320

00126387

Scope of delivery: 2 foot mountings incl. mounting screws

Part No.	Piston Ø	For series	ØAB	AO	AT	AU ±0,2	Ød	E	L1	L2
1821332053	16	KPZ CCI CCL-IC	5.5	5	3	13	4.5	29	35.5	13
1827002284	20	KPZ CCI CCL-IC	6.6	6	4	16	5.4	36	22	16
1827002285	25	KPZ CCI CCL-IC	6.6	6	4	16	5.4	40	23	17
1827002286	32	KPZ	6.6	8	5	18	6.6	50	24	16
1827002287	40	KPZ	9	8	5	20	6.6	60	29.5	21.5
1827002288	50	KPZ	9	8	6	24	9	68	30	22
1827002289	63	KPZ	11	12	6	27	9	84	39	28.5
1827002290	80	KPZ	11	12	8	30	11	102	36.5	24.5
1827002291	100	KPZ	13.5	12	8	33	11	123	38.5	26.5

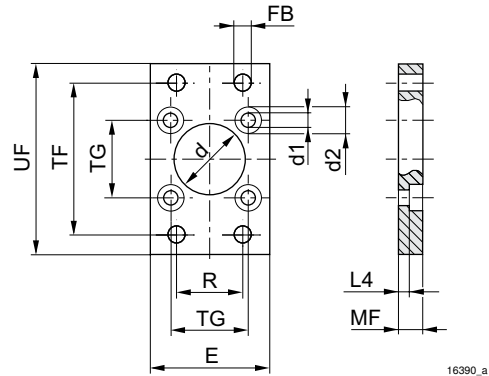
Part No.	Piston Ø	R	TG	TR						
1821332053	16	8	18 ±0,2	18						
1827002284	20	10	22 ±0,2	22						
1827002285	25	11	26 ±0,2	26						
1827002286	32	-	32	32						
1827002287	40	-	42	42						
1827002288	50	-	50	50						
1827002289	63	-	62	62						
1827002290	80	-	82	82						
1827002291	100	-	103	103						

Material: Steel
Surface: galvanized

Series KPZ
 Accessories

Flange mounting, Series MF1, MF2


00105812



16390_a

Scope of delivery: flange mounting incl. mounting screws

Part No.	Piston Ø	d	Ø d1	Ø d2	E	Ø FB	L4	MF	R	TF	TG
1821038241	16	10	4.5	10	29	5.5	5.6	10	–	43	18
1827002292	20	12	5.5	10	36	6.6	4.6	10	–	55	22
1827002293	25	12	5.5	10	40	6.6	4.6	10	–	60	26
1827002294	32	14	6.6	11	50	7	3.6	10	32	65	32
1827002295	40	14	6.6	11	60	9	3.6	10	36	82	42
1827002296	50	18	9	15	68	9	3.4	12	45	90	50
1827002297	63	18	9	15	87	9	6.4	15	50	110	62
1827002298	80	23	11	18	107	12	4.4	15	63	135	82
1827002299	100	28	11	18	128	14	4.4	15	75	163	103

Part No.	UF	Weight [kg]									
1821038241	55	0.05									
1827002292	70	0.18									
1827002293	76	0.23									
1827002294	80	0.23									
1827002295	102	0.45									
1827002296	110	0.66									
1827002297	130	1.27									
1827002298	160	1.9									
1827002299	190	2.7									

 Material: Steel
 Surface: galvanized

Piston rod cylinders ▶ Short-stroke and compact cylinders

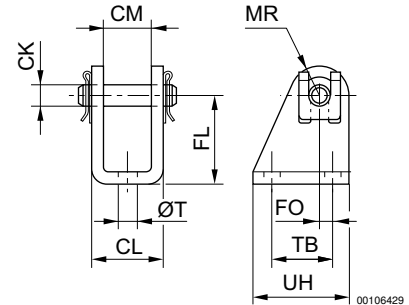
Series KPZ Accessories

Clevis mounting, Series AB3



00105159

Scope of delivery: clevis mounting incl. pivot pins



00106429

Part No.	Piston Ø	CM	Ø CK	CL	FL	FO	MR	Ø T	TB	UH		
1827001446	12, 16	12,1	6	18,1	27	2,0	7	5,5	15	25		
1827001445	20, 25	16,1	8	24,1	30	4,0	10	6,6	20	32		

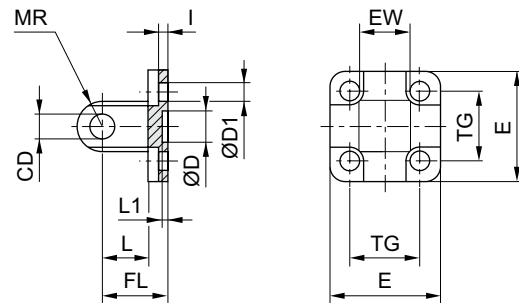
Material: Steel
Surface: galvanized

Rear eye, Series MP4 ▶ for clevis mounting MP2 and AB3



P523_024

Scope of delivery: clevis incl. mounting screws



00126403_a

Part No.	Piston Ø	CD H9	Ø D	Ø D1	E	EW	FL ±0,2	I ±0,5	L 1)	L1 1)	MR 2)
1825805368	16	6	10 H13	4.5	27	12 -0,2/-0,6	16	2.6	10	3	6
1827002300	20	8	12 H13	5.5	34	16 -0,2/-0,6	20	2.6	14	3	8
1827002301	25	8	12 H13	5.5	40	16 -0,2/-0,6	20	2.6	14	3	8
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

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

Pneumatics catalog, online PDF, as of 2017-05-04, ©AVENTICS S.à r.l., subject to change

Series KPZ Accessories

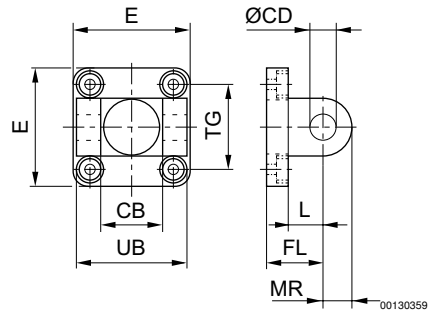
Part No.	TG	Standardiza- tion	Note							
1825805368	18 ±0,2	-	3)							
1827002300	22 ±0,4	ISO 21287	4) 6)							
1827002301	26 ±0,4	ISO 21287	4) 6)							
1827001283	32,5 ±0,2	ISO 15552	5)							
1827001284	38 ±0,2	ISO 15552	5)							
1827001285	46,5 ±0,2	ISO 15552	5)							
1827020086	56,5 ±0,2	ISO 15552	5)							
1827001287	72 ±0,2	ISO 15552	5)							
1827001288	89 ±0,2	ISO 15552	5)							

1) Min.
2) Max.
3) Material: Die-cast aluminum
4) Material: Steel
5) Material: Aluminum (forged)
6) Surface: galvanized

Clevis mounting, Series MP2 ▶ for Series KPZ



P523_025



Scope of delivery: clevis mounting incl. mounting screws

Part No.	Piston Ø	For series	CB H14	Ø CD H9	E	FL ±0,2	L 1)	MR 2)	UB h13	TG
1827002302	32	KPZ	26	10	48	22	13	10	45	32 ±0,5
1827002303	40	KPZ	28	12	58	25	16	12.5	52	42 ±0,5
1827002304	50	KPZ	32	12	66	27	16	12.5	60	50 ±0,6
1827002305	63	KPZ	40	16	83	32	21	15	70	62 ±0,6
1827002306	80	KPZ	50	16	102	36	23	15	90	82 ±0,7
1827002307	100	KPZ	60	20	123	41	26	20	110	103 ±0,7

1) Min.
2) Max.
Material: Steel
Surface: galvanized

Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ
Accessories

Bolts, AA4



00105158

Fig. 1

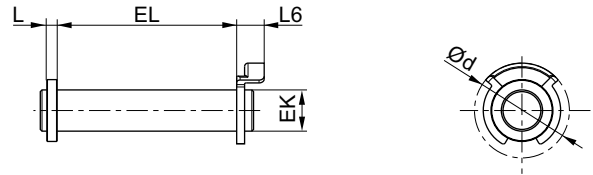
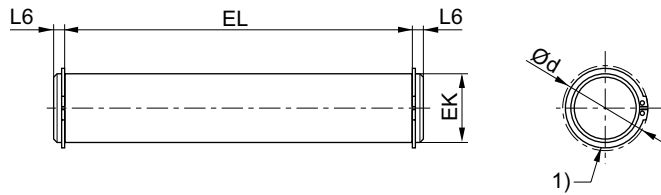


Fig. 2



21294

Scope of delivery: pivot pins incl. circlips
1) circlip DIN 471

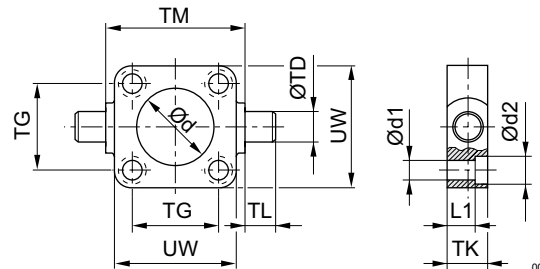
Part No.	Piston Ø	Ø d 2)	EK e8	EL	L 2)	L6 2)	Weight [kg]	Fig.
1823120020	32	20	10	45,2 +0,3	3.5	9	0.03	Fig. 1
1823120021	40	22	12	52,2 +0,3	4	9	0.05	Fig. 1
1823120022	50	22	12	60,2 +0,3	4	9	0.06	Fig. 1
1823120023	63	28	16	70,2 +0,3	4.5	11	0.12	Fig. 1
1823120024	80	28	16	90,2 +0,3	4.5	11	0.15	Fig. 1
1823120025	100	38	20	110,2 +0,3	5	11	0.29	Fig. 1

2) Max.
Material: Steel
Surface: galvanized

Trunnion mounting, front or rear, Series MT5, MT6



00128925



00126407

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

Series KPZ
Accessories

Part No.	Piston Ø	For series	Ø d H11	Ø d1	Ø d2	L1	TD e9	TG ±0,2	TK	TL h14	TM h14
1825805360	20	CCI KPZ CCL-IC/-IS	18	5.5	10	8	12	22	14	12	38
1825805361	25	CCI KPZ CCL-IC/-IS	22	5.5	10	8	12	26	14	12	42
1827001609	32	CCI CVI CCL-IC/-IS ICL PRA/TRB	30	6.6	11	7.5	12	32.5	16	12	50
1827001610	40	CCI CVI CCL-IC/-IS ICL PRA/TRB	35	6.6	11	7.5	16	38	20	16	63
1827001611	50	CCI CVI CCL-IC/-IS ICL PRA/TRB	40	9	15	10	16	46.5	24	16	75
1827002046	63	CCI CVI CCL-IC/-IS ICL PRA/TRB	45	9	15	10	20	56.5	24	20	90
1827001613	80	CCI CVI CCL-IC/-IS ICL PRA/TRB	45	11	18	16	20	72	28	20	110
1827001614	100	CCI CVI CCL-IC/-IS ICL PRA/TRB	55	11	18	25.5	25	89	38	25	132

Part No.	Piston Ø	UW									
1825805360	20	35									
1825805361	25	39									
1827001609	32	48									
1827001610	40	56									
1827001611	50	65									
1827002046	63	75									
1827001613	80	100									
1827001614	100	120									

Material: Nodular graphite iron
 Surface: galvanized

Piston rod cylinders ▶ Short-stroke and compact cylinders

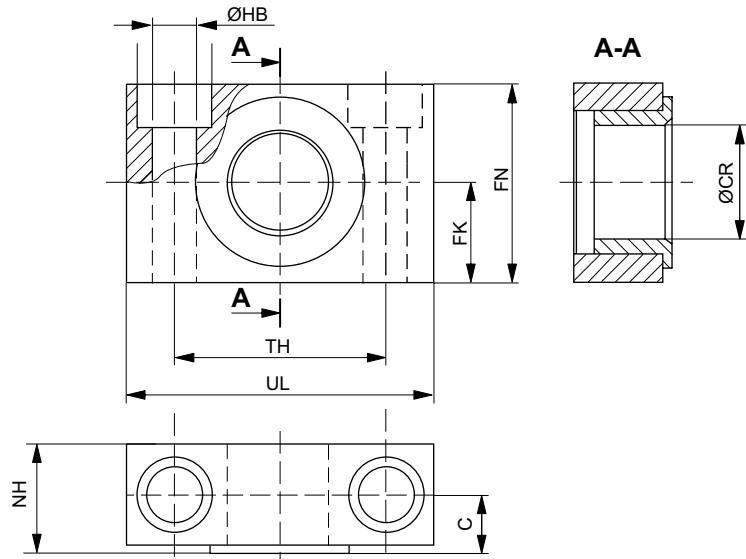
Series KPZ
Accessories

Bearing brackets MT4, MT5, MT6, Series AT4

▶ Cylinder mounting in accordance with ISO 15552 ▶ for Series CCI, CCL-IC, ICL, KPZ, PRA/TRB



00105163



00105221

Part No.	Piston Ø	For series	UL	NH	TH	C	CR H9	HB H13	FN	FK
1827001603	20, 25, 32	CCI CCL-IC ICL KPZ PRA/TRB	46	18	32 ±0,2	10.5	12	6.6	30	15 ±0,1
1827001604	40, 50	CCI CCL-IC ICL KPZ PRA/TRB	55	21	36 ±0,2	12	16	9	36	18 ±0,1
1827001605	63, 80	CCI CCL-IC ICL KPZ PRA/TRB	65	23	42 ±0,2	13	20	11	40	20 ±0,1
1827001606	100, 125	CCI CCL-IC ICL KPZ PRA/TRB	75	28.5	50 ±0,2	16	25	14	50	25 ±0,1

Part No.	Piston Ø	Plain bearing	Delivery quantity [Piece]							
1827001603	20, 25, 32	Sintered bronze	2							
1827001604	40, 50	Sintered bronze	2							
1827001605	63, 80	Sintered bronze	2							
1827001606	100, 125	Sintered bronze	2							

Material: Steel
Surface: galvanized

Series KPZ

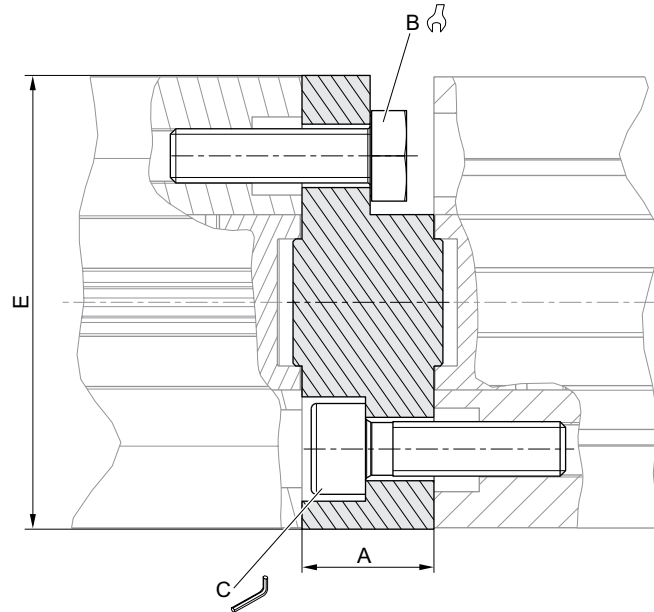
Accessories

Intermediate flange, Series JP2

▶ for multi-position cylinders ▶ for Series CCI, KPZ, KPZ



IM0043337



00105190

Part No.	Piston Ø	For series	A	B	C	Md [Nm] 1)	E						
1827020290	16	CCI KPZ	12.5	7	–	2.5	28.4						
1827020267	20	CCI KPZ	12.5	8	–	4	35						
1827020268	25	CCI KPZ	13	8	4	4	40						
1827020269	32	CCI KPZ	14.5	10	5	4	50						
1827020270	40	CCI KPZ	14.5	10	5	4	57.1						
1827020271	50	CCI KPZ	14.5	13	6	8	67.4						
1827020272	63	CCI KPZ	14.5	13	6	8	80						
1827020273	80	KPZ	16.5	16	–	16	98.4						
1827020274	100	KPZ	19.5	16	–	16	120						

1) torque
Material: Aluminum

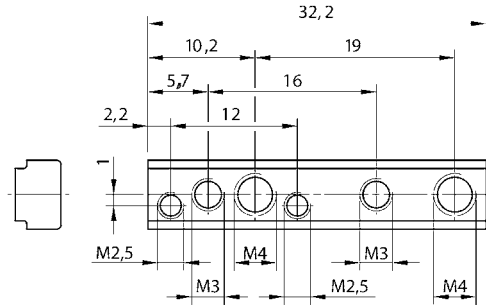
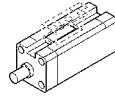
Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ
Accessories

Mounting kit



00103610

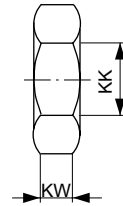
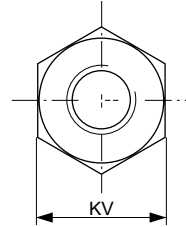


00111998

Part No.	Ø mm	Material	Material Screws	Surface Screws	Weight [kg]				
1827020275	16-100	Brass	Steel	galvanized	0.02				

Series KPZ
Accessories
Nut for piston rod, Series MR9


00105168



00105192

Part No.	KK	KV	KW	Material	Surface	Weight [kg]				
1823300034	M8	13	4	Steel	galvanized	0.005				
1823300020	M10x1,25	17	6	Steel	galvanized	0.01				
8103190344	M12x1,25	19	6	Steel	galvanized	0.012				

Rod clevis, Series AP2
▶ galvanized steel


00105171

Fig. 1

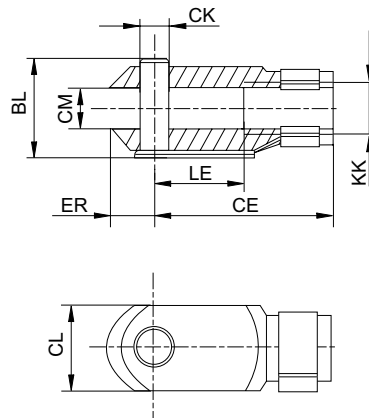
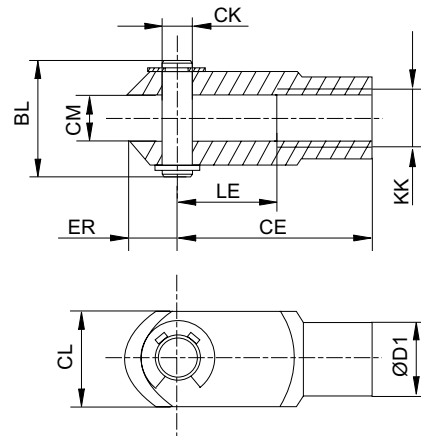


Fig. 2



00126410

Part No.	KK	BL	CE	ØCK e11	CL	CM	ØD1	ER	LE	Material
1822122010	M8	21,5	32	8	16	8	14	10	16	Steel
1822122024	M10x1,25	26	40	10	20	10	18	12	20	Steel
1822122025	M12x1,25	31	48	12	24	12	20	14	24	Steel
1822122005	M16x1,5	39	64	16	32	16	26	19	32	Steel
1822122004	M20x1,5	50	80	20	40	20	34	20	40	Steel

Part No.	Surface	Weight [kg]	Fig.							
1822122010	galvanized	0.05	Fig. 1							
1822122024	galvanized	0.1	Fig. 1							
1822122025	galvanized	0.16	Fig. 1							
1822122005	galvanized	0.4	Fig. 1							

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

Pneumatics catalog, online PDF, as of 2017-05-04, ©AVENTICS S.à r.l., subject to change

Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ Accessories

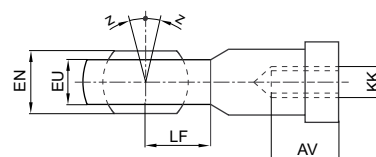
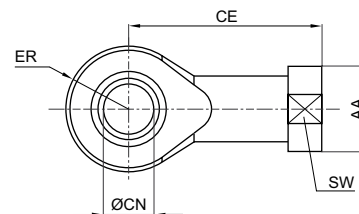
Part No.	Surface	Weight [kg]	Fig.							
1822122004	galvanized	0.7	Fig. 1							

Ball eye rod end with flange, Series AP6

▶ galvanized steel



00105172



00126602

Part No.	KK	AA	AV min.	CE	Ø CN H7	EN -0,1	ER	EU max.	LF	SW	Z [°] max.
1822124002	M8	16	12	36	8	12	12	9.5	12	14	4
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

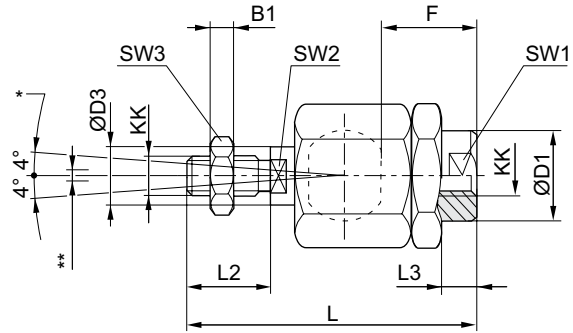
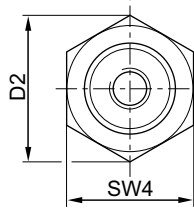
Part No.	Material	Surface	Weight [kg]							
1822124002	Steel	galvanized	0.05							
1822124003	Steel	galvanized	0.07							
1822124004	Steel	galvanized	0.12							
1822124005	Steel	galvanized	0.21							
1822124006	Steel	galvanized	0.38							

Series KPZ Accessories

Flexible spherical coupling, Series PM5



00105169



D300_029

* Angle joint
 ** Radial joint from 0,5 - 2 mm
 Axial play set to 0.05 to 0.2 mm

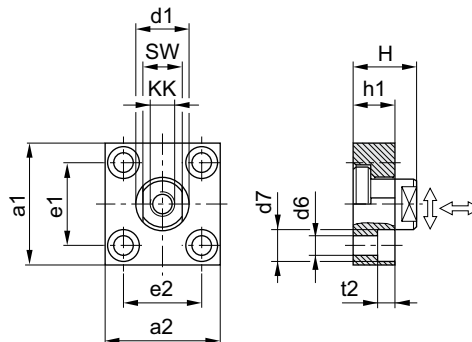
Part No.	KK	B1	Ø D1	D2	Ø D3	F	L ±2	L2	L3 ±1	SW1	SW2	SW3
1826409001	M8	4	12.5	20	8	14.5	55	15	5	10	6	13
1826409002	M10x1,25	6	21.5	34	14	23	73	20	7.5	19	12	17
1826409003	M12x1,25	7	21.5	34	14	28	77	24	13	19	12	19
1826409004	M16x1,5	8	33.5	47	22	32	108	32	9	30	19	24
1826409005	M20x1,5	10	33.5	47	22	42	122	40	19	30	19	30

Part No.	SW4	Material	Surface	Weight
				[kg]
1826409001	17	Steel	galvanized	0.05
1826409002	30	Steel	galvanized	0.21
1826409003	30	Steel	galvanized	0.21
1826409004	41	Steel	galvanized	0.65
1826409005	41	Steel	galvanized	0.68

Flexible plate coupling, Series PM7



00105170



00105194

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

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

Pneumatics catalog, online PDF, as of 2017-05-04, ©AVENTICS S.à r.l., subject to change

Piston rod cylinders ▶ Short-stroke and compact cylinders
**Series KPZ
Accessories**

Part No.	KK	a1	a2	d1 h11	d6 H13	d7 H13	e1 H13	e2	h1	t2	H
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

Part No.	SW	Tightening torque for the coupling pin Ma ± 5%	Axial play	Radial play	Material	Surface	Weight		
		[Nm]	[min./max.]	[min./max.]			[kg]		
1827001629	17	17	0.4 - 0.8	1.9 - 2.3	Steel	galvanized	0.3		
1827001630	19	29	0.4 - 0.8	1.9 - 2.3	Steel	galvanized	0.4		
1827001631	24	71	0.4 - 0.8	1.9 - 2.3	Steel	galvanized	0.9		
1827001632	36	138	0.4 - 0.8	1.9 - 2.3	Steel	galvanized	1.15		

Series KPZ Accessories

Sensor, Series ST6

▶ 6 mm T-slot ▶ with cable ▶ open cable ends, 2-pin, open cable ends, 3-pin



24712

Certificates	CE declaration of conformity cULus RoHS
Ambient temperature min./max.	-30 °C / +80 °C
Protection class	IP65, IP67, IP69K
Switching point precision [mm]	±0,1
Switching logic	NO (make contact)
Switching capacity	Reed, 2-pin: max. 10 W Reed, 3-pin: max. 6 W
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel

Technical Remarks

- No cULus certification for 230 V variant.

	Type of contact	Cable length	DC operating voltage min./max.	Operational voltage AC min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V DC]	[V AC]		[A]	[A]	
	Reed	3	10 / 230	10 / 230	I*Rs	0.13	0.13	R412022866
	Reed	3 5 10	10 / 30	10 / 30	I*Rs	0.3	0.5	R412022869 R412022870 R412022871
	electronic PNP	3 5 10	10 / 30	-	≤ 2,5 V	0.13	-	R412022853 R412022855 R412022857
	electronic NPN	3 5	10 / 30	-	≤ 2,5 V	0.13	-	R412022849 R412022850

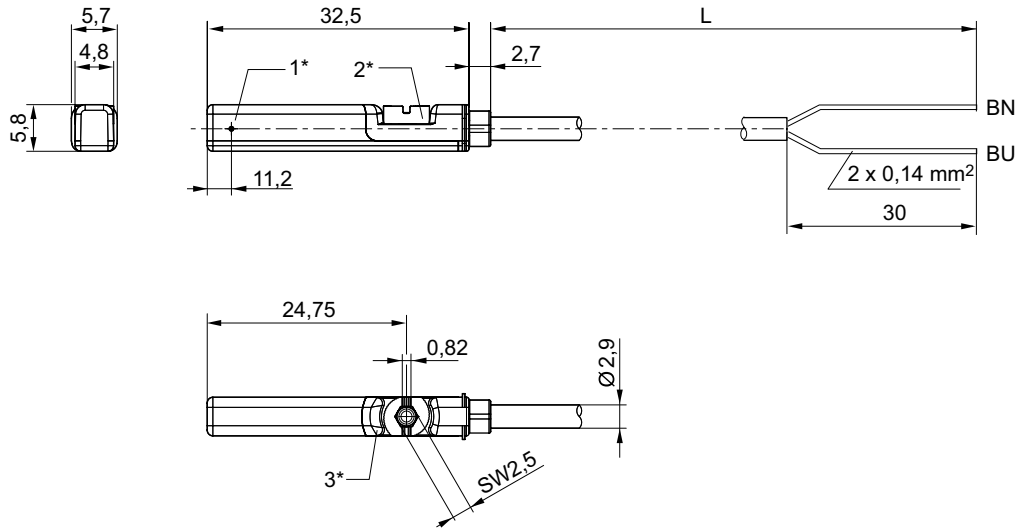
Part No.	Max. switching frequency kHz	Operating current, not switched	Operating current, switched	Fig.	Note
R412022866	< 0,4	-	-	Fig. 1	1); 3)
R412022869 R412022870 R412022871	< 0,4	-	-	Fig. 2	2); 3)
R412022853 R412022855 R412022857	< 1,0	< 8 mA	< 30 mA	Fig. 2	2); 4)
R412022849 R412022850	< 1,0	< 8 mA	< 30 mA	Fig. 2	2); 4)

- 1) interfaces: open cable ends; 2-pin
- 2) interfaces: open cable ends; 3-pin
- 3) Protected against polarity reversal
- 4) short circuit resistant / Protected against polarity reversal

Piston rod cylinders ▶ Short-stroke and compact cylinders

**Series KPZ
Accessories**

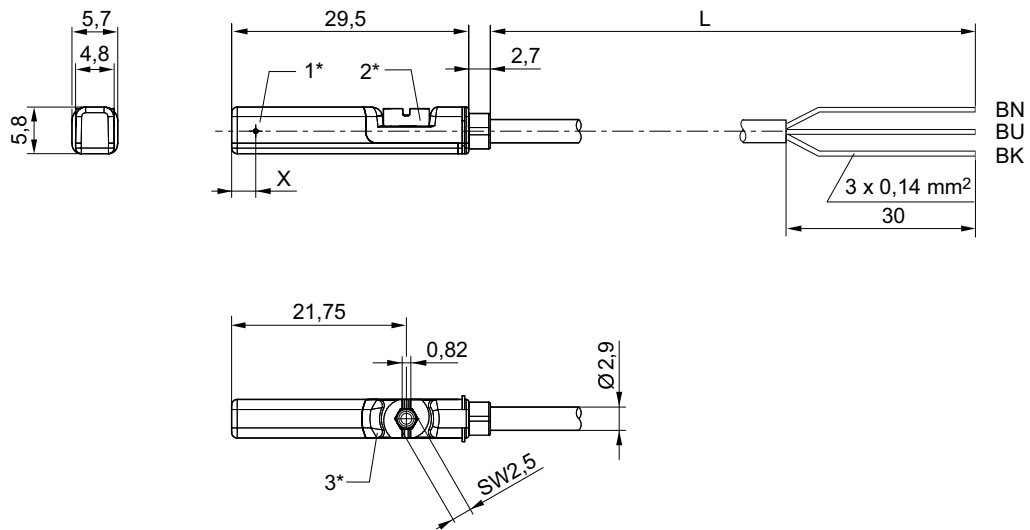
Fig. 1



24619

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

Fig. 2



24620

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

Series KPZ Accessories

Sensor, Series ST6

▶ 6 mm T-slot ▶ with cable ▶ open cable ends, 3-pin ▶ ATEX certified



24712

Certificates	CE declaration of conformity cULus RoHS II 3G Ex nA op is IIC T4 Gc X II 3D Ex tc IIIC T135°C Dc X
ATEX	
Ambient temperature min./max.	-20°C / +50°C
Protection class	IP67
Switching point precision [mm]	±0,1
Quiescent current (without load)	< 10 mA
DC operating voltage min./max.	10 V DC - 30 V DC
Switching logic	NO (make contact)
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel

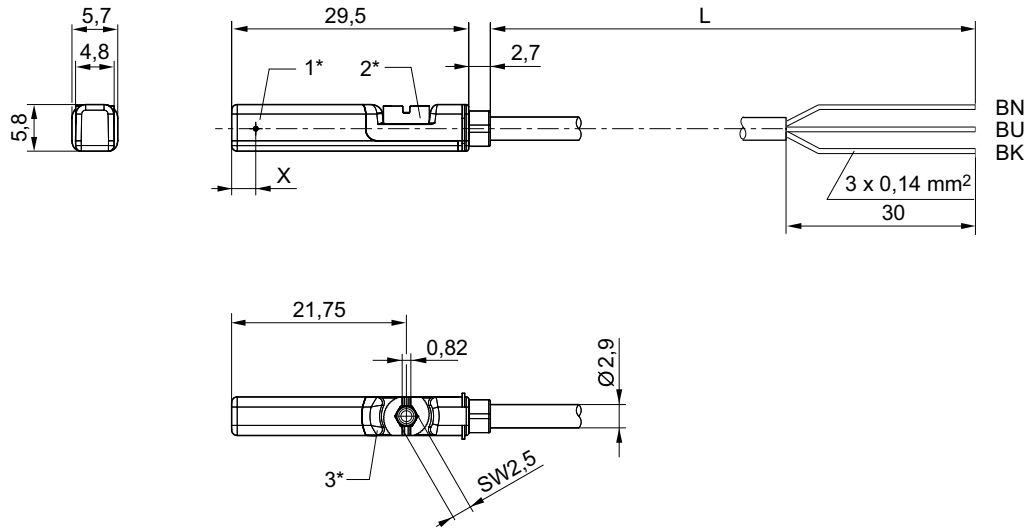
	Type of contact	Cable length	Voltage drop U at I _{max}	DC switching current, max.	Max. switching frequency kHz	Part No.
		[m]		[A]		
	electronic PNP	3	≤ 2,5 V	0.1	< 1,0	R412022854
		5				R412022856

interfaces: open cable ends; 3-pin
short circuit resistant / Protected against polarity reversal

Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ Accessories

Dimensions



24620

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

Sensor, Series ST6

▶ 6 mm T-slot ▶ with cable ▶ Plug, M8, 3-pin, with knurled screw



24713

Certificates

Ambient temperature min./max.
 Protection class
 Switching point precision [mm]
 DC operating voltage min./max.
 Switching logic
 Switching capacity
 LED status display
 Vibration resistance
 Shock resistance

Materials:

Housing
 Locking screw

CE declaration of conformity

cULus
 RoHS
 -30 °C / +80 °C
 IP65, IP67
 ±0,1
 10 V DC - 30 V DC
 NO (make contact)
 Reed, 3-pin: max. 6 W
 Yellow
 10 - 55 Hz, 1 mm
 30 g / 11 ms



Polyamide
 Stainless steel

	Type of contact	Cable sheath	Cable length	Operational voltage AC min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Part No.
			[m]	[V AC]		[A]	[A]	
	Reed	Polyurethane	0.3	10 / 30	I*Rs	0.3	0.5	R412022873
		Polyvinyl chloride	0.3					R412022875
		Polyurethane	0.5					R412022874

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

Pneumatics catalog, online PDF, as of 2017-05-04, ©AVENTICS S.à r.l., subject to change

Series KPZ Accessories

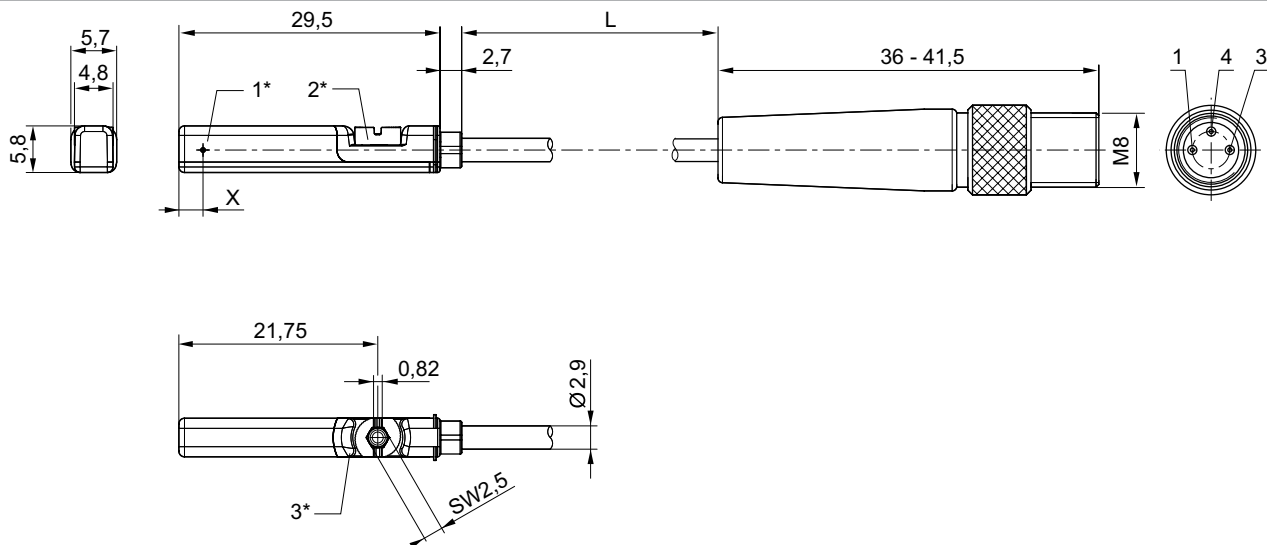
	Type of contact	Cable sheath	Cable length	Operational voltage AC min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Part No.
			[m]	[V AC]		[A]	[A]	
	electronic PNP	Polyurethane	0.3	-	≤ 2,5 V	0.13	-	R412022859
		Polyvinyl chloride	0.3					R412022862
		Polyurethane	0.5					R412022861
	electronic NPN	Polyurethane	0.3	-	≤ 2,5 V	0.13	-	R412022852

Part No.	Max. switching frequency kHz	Operating current, not switched	Operating current, switched	Note
R412022873 R412022875 R412022874	< 0,4	-	-	1)
R412022859 R412022862 R412022861	< 1,0	< 8 mA	< 30 mA	2)
R412022852	< 1,0	< 8 mA	< 30 mA	2)

1) Protected against polarity reversal

2) short circuit resistant / Protected against polarity reversal
interfaces: Plug; M8; 3-pin; with knurled screw

Dimensions



1* = switching point 2* = locking screw 3* = LED window, transparent

L = cable length

X = electronic: 11,6 mm, Reed: 8,3 mm

Pin assignment: 1 = (+), 3 = (-), 4 = (OUT)

24622

Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ
Accessories

Sensor, Series ST6

▶ 6 mm T-slot ▶ with cable ▶ Plug, M8, 3-pin, with knurled screw ▶ ATEX certified



24713

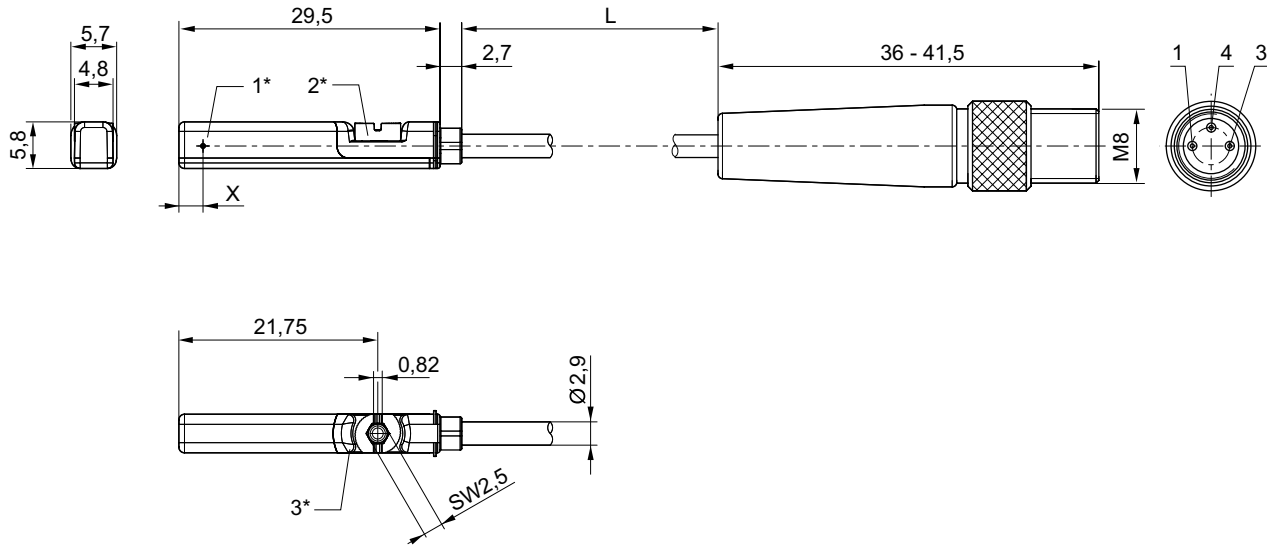
<p>Certificates</p> <p>ATEX</p> <p>Ambient temperature min./max.</p> <p>Protection class</p> <p>Switching point precision [mm]</p> <p>Quiescent current (without load)</p> <p>DC operating voltage min./max.</p> <p>Switching logic</p> <p>LED status display</p> <p>Vibration resistance</p> <p>Shock resistance</p> <p>Materials:</p> <p>Housing</p> <p>Cable sheath</p> <p>Locking screw</p>	<p>CE declaration of conformity</p> <p>cULus</p> <p>RoHS</p> <p>II 3G Ex nA op is IIC T4 Gc X</p> <p>II 3D Ex tc IIIC T135°C Dc X</p> <p>-20°C / +50°C</p> <p>IP67</p> <p>±0,1</p> <p>< 10 mA</p> <p>10 V DC - 30 V DC</p> <p>NO (make contact)</p> <p>Yellow</p> <p>10 - 55 Hz, 1 mm</p> <p>30 g / 11 ms</p> <p>Polyamide</p> <p>Polyurethane</p> <p>Stainless steel</p>
---	--

	Type of contact	Cable length	Voltage drop U at I _{max}	DC switching current, max.	Max. switching frequency kHz	Part No.
		[m]		[A]		
	electronic PNP	0.3	≤ 2,5 V	0.1	< 1,0	R412022860

interfaces: Plug; M8; 3-pin; with knurled screw
short circuit resistant / Protected against polarity reversal

Series KPZ Accessories

Dimensions



1* = switching point 2* = locking screw 3* = LED window, transparent
 L = cable length
 X = PNP: 11,6 mm
 Pin assignment: 1 = (+), 3 = (-), 4 = (OUT)

24622

Sensor, Series ST6

▶ 6 mm T-slot ▶ with cable ▶ Plug, M8, 3-pin



24742

Certificates


Ambient temperature min./max.
 Protection class
 Switching point precision [mm]
 DC operating voltage min./max.
 Switching logic
 Switching capacity
 LED status display
 Vibration resistance
 Shock resistance

Materials:

Housing
 Cable sheath
 Locking screw

CE declaration of conformity
 cULus
 RoHS
 -30°C / +80°C
 IP65, IP67
 ±0,1
 10 V DC - 30 V DC
 NO (make contact)
 Reed, 2-pin: max. 10 W
 Reed, 3-pin: max. 6 W
 Yellow
 10 - 55 Hz, 1 mm
 30 g / 11 ms

Polyamide
 Polyurethane
 Stainless steel




	Type of contact	Cable length	Operational voltage AC min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Max. switching frequency kHz	Part No.
		[m]	[V AC]		[A]	[A]		
	Reed	0.3	10 / 30	I*Rs	0.13	0.13	< 0,4	R412022868

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

Pneumatics catalog, online PDF, as of 2017-05-04, ©AVENTICS S.à r.l., subject to change

Piston rod cylinders ▶ Short-stroke and compact cylinders

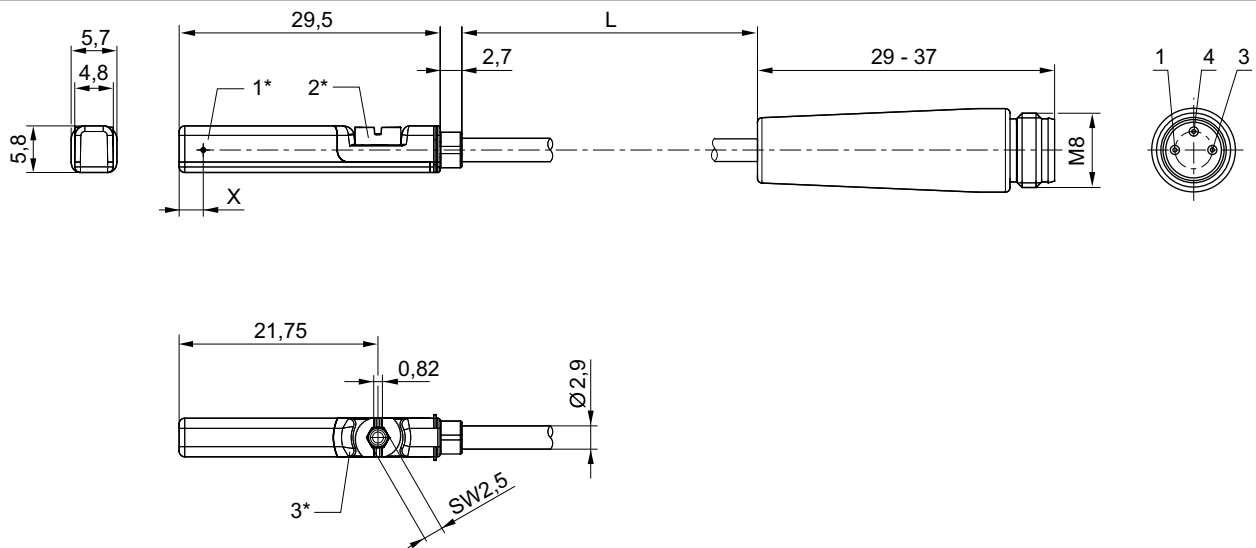
Series KPZ Accessories

	Type of contact	Cable length	Operational voltage AC min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Max. switching frequency kHz	Part No.
		[m]	[V AC]		[A]	[A]		
	Reed	0.3	10 / 30	I*Rs	0.3	0.5	< 0,4	R412022872
	electronic PNP	0.3	-	≤ 2,5 V	0.13	-	< 1,0	R412022858
	electronic NPN	0.3	-	≤ 2,5 V	0.13	-	< 1,0	R412022851

Part No.	Operating current, not switched	Operating current, switched	Note
R412022868	-	-	1)
R412022872	-	-	1)
R412022858	< 8 mA	< 30 mA	2)
R412022851	< 8 mA	< 30 mA	2)

1) Protected against polarity reversal
 2) short circuit resistant / Protected against polarity reversal
 interfaces: Plug; M8; 3-pin

Dimensions



1* = switching point 2* = locking screw 3* = LED window, transparent
 L = cable length
 X = electronic: 11,6 mm, Reed: 8,3 mm
 Pin assignment: 1 = (+), 3 = (-), 4 = (OUT)

24621

Series KPZ Accessories

Sensor, Series ST6

▶ 6 mm T-slot ▶ with cable ▶ Plug, M12, 3-pin, with knurled screw



24714

Certificates

Ambient temperature min./max.
Protection class
Switching point precision [mm]
DC operating voltage min./max.
Switching logic
Switching capacity
LED status display
Vibration resistance
Shock resistance



CE declaration of conformity
cULus
RoHS

-30 °C / +80 °C
IP65, IP67
±0,1
10 V DC - 30 V DC
NO (make contact)
Reed, 3-pin: max. 6 W
Yellow
10 - 55 Hz, 1 mm
30 g / 11 ms

Materials:

Housing
Cable sheath
Locking screw

Polyamide
Polyurethane
Stainless steel

	Type of contact	Cable length	Operational voltage AC min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Max. switching frequency kHz	Part No.
		[m]	[V AC]		[A]	[A]		
	Reed	0.3	10 / 30	I*Rs	0.3	0.5	< 0,4	R412022876
	electronic PNP	0.1 0.3 3 5	-	≤ 2,5 V	0.13	-	< 1,0	R412022879 R412022863 R412022877 R412022878

Part No.	Operating current, not switched	Operating current, switched	Note
R412022876	-	-	1)
R412022879 R412022863 R412022877 R412022878	< 8 mA	< 30 mA	2)

1) Protected against polarity reversal

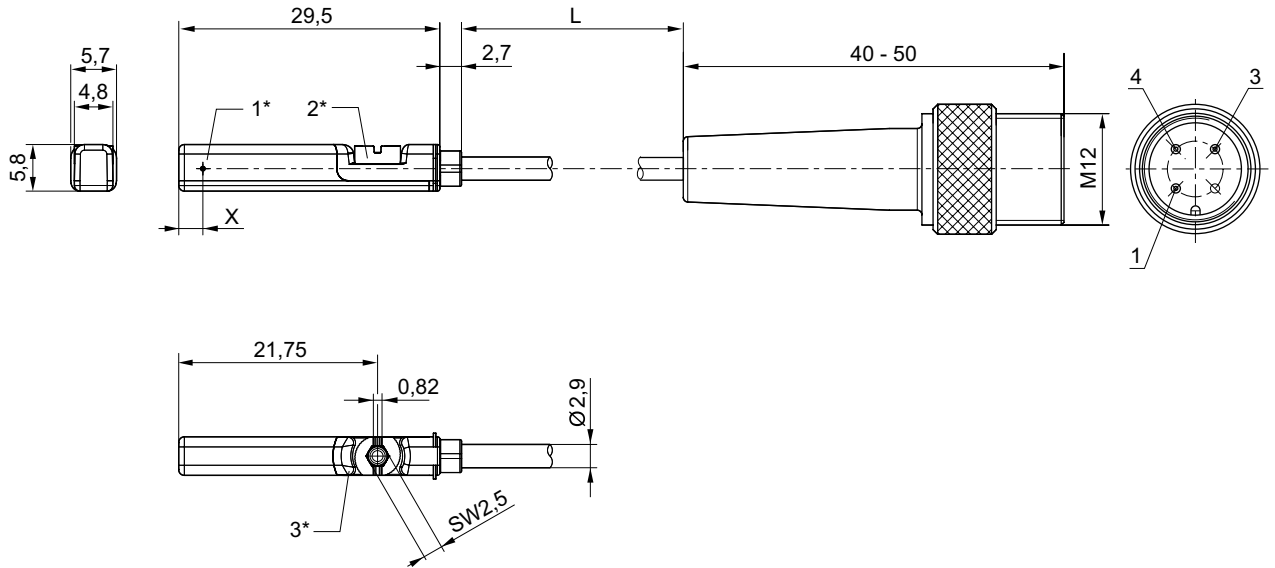
2) short circuit resistant / Protected against polarity reversal

interfaces: Plug; M12; 3-pin; with knurled screw

Piston rod cylinders ▶ Short-stroke and compact cylinders

**Series KPZ
Accessories**

Dimensions



1* = switching point 2* = locking screw 3* = LED window, transparent
 L = cable length
 X = PNP: 11,6 mm, reed: 8,3 mm
 Pin assignment: 1 = (+), 3 = (-), 4 = (OUT)

24623

Sensor, Series ST6

▶ 6 mm T-slot ▶ with cable ▶ Plug, M12, 3-pin, with knurled screw ▶ ATEX certified



24714

Certificates

ATEX

Ambient temperature min./max.
 Protection class
 Switching point precision [mm]
 Quiescent current (without load)
 DC operating voltage min./max.
 Switching logic
 LED status display
 Vibration resistance
 Shock resistance

Materials:

Housing
 Cable sheath
 Locking screw

CE declaration of conformity
 cULus
 RoHS

II 3G Ex nA op is IIC T4 Gc X
 II 3D Ex tc IIIC T135°C Dc X

-20°C / +50°C

IP67

±0,1

< 10 mA

10 V DC - 30 V DC

NO (make contact)

Yellow

10 - 55 Hz, 1 mm

30 g / 11 ms

Polyamide

Polyurethane

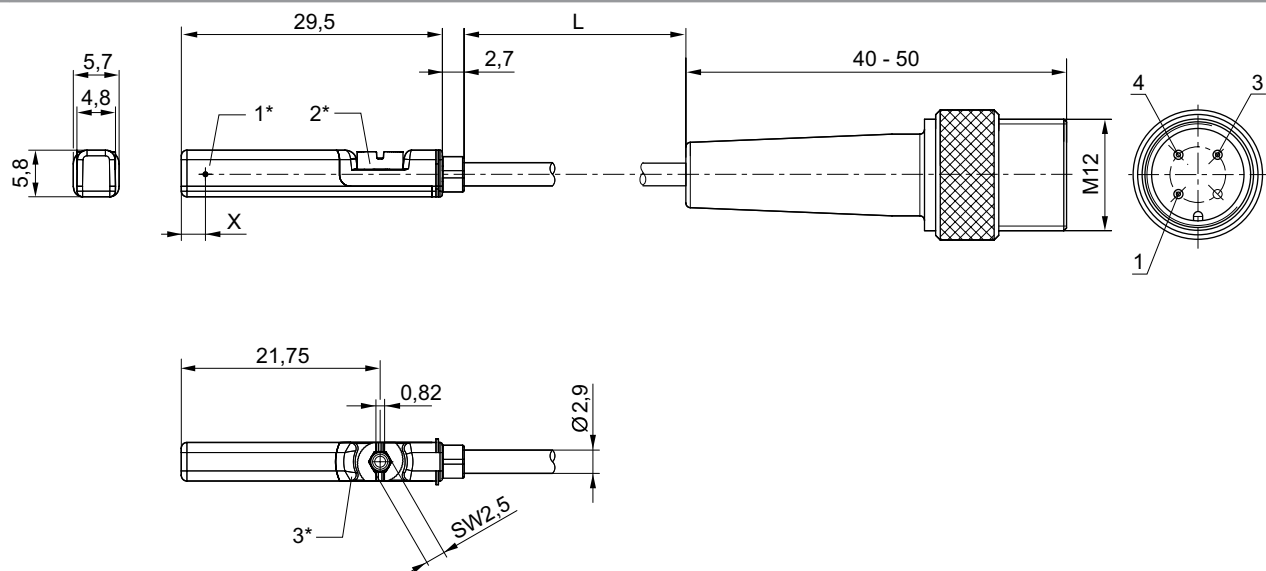
Stainless steel

Series KPZ

Accessories

	Type of contact	Cable length	Voltage drop U at I _{max}	DC switching current, max.	Max. switching frequency kHz	Part No.
		[m]		[A]		
	electronic PNP	0.3	≤ 2,5 V	0.1	< 1,0	R412022864
interfaces: Plug; M12; 3-pin; with knurled screw short circuit resistant / Protected against polarity reversal						

Dimensions



1* = switching point 2* = locking screw 3* = LED window, transparent
 L = cable length
 X = PNP: 11,6 mm
 Pin assignment: 1 = (+), 3 = (-), 4 = (OUT)

24623

Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ
Accessories

Sensors, Series SM6

▶ 6 mm groove ▶ with cable ▶ without wire end ferrule, tin-plated, 4-pin ▶ with distance measuring sensor, measurement range 32 - 256 mm



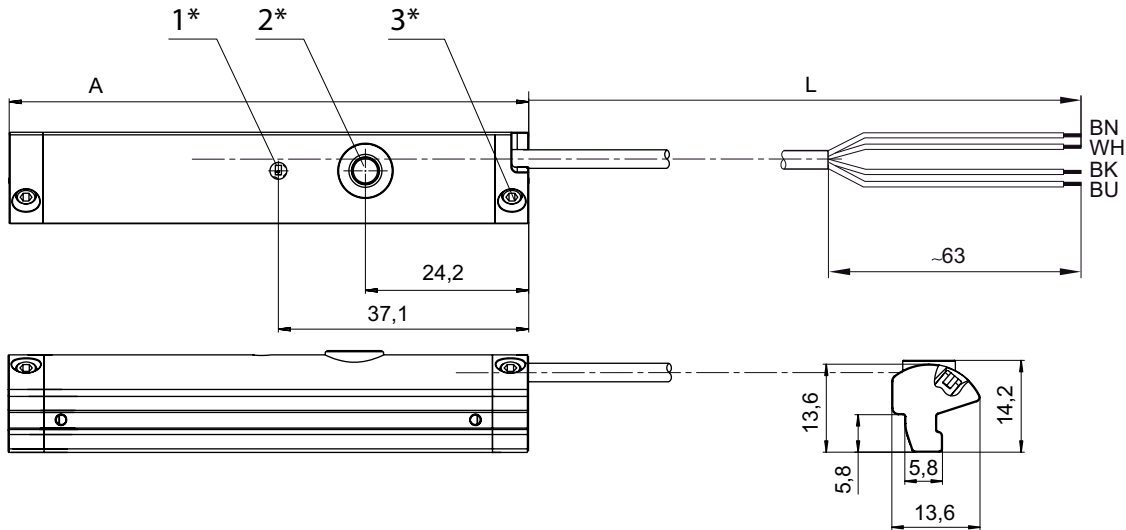
00133722

Certificates	cULus
Ambient temperature min./max.	-20°C / +70°C
Protection class	IP67
Output signal	0 - 10 V DC, 4 - 20 mA
Quiescent current (without load)	< 25 mA
Current signal	4 - 20 mA
Maximum load (analog current output)	500 Ω
DC operating voltage min./max.	15 V DC - 30 V DC
Residual ripple	≤ 10 %
sampling interval	1 ms
Resolution max. measuring range	0,05 mm
Repetitive precision max. measuring range	0.1 mm
Linearity deviation	0,3 mm
Sampling 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 sheath	Polyurethane

	Type of contact	Cable length	Measurement range Max.	Overall length Sensor A	Part No.
		[m]	[mm]	[mm]	
	Analog	2	32	45	R412010141
			64	77	R412010143
			96	109	R412010262
			128	141	R412010264
			160	173	R412010411
			192	205	R412010413
			224	237	R412010415
			256	269	R412010417

interfaces: without wire end ferrule, tin-plated; 4-pin
short circuit resistant / Protected against polarity reversal / Overload protection

Series KPZ
Accessories
Dimensions


00133787

1* = LED 2* = teach button 3* = threaded pin M3x11

L = cable length

(1) BN=brown

(2) WH=white

(3) BU=blue

(4) BK=black

A = sensor length

Sensors, Series SM6

▶ 6 mm groove ▶ with cable ▶ Plug, M8x1, 4-pin, with knurled screw ▶ with distance measuring sensor, measurement range 32 - 256 mm



00134312

Certificates	cULus
Ambient temperature min./max.	-20°C / +70°C
Protection class	IP67
Output signal	0 - 10 V DC, 4 - 20 mA
Quiescent current (without load)	< 25 mA
Current signal	4 - 20 mA
DC operating voltage min./max.	15 V DC - 30 V DC
sampling interval	1 ms
Resolution max. measuring range	0,05 mm
Repetitive precision max. measuring range	0.1 mm
Linearity deviation	0,3 mm
Sampling speed	3 m/s
Display	LED
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms

Materials:

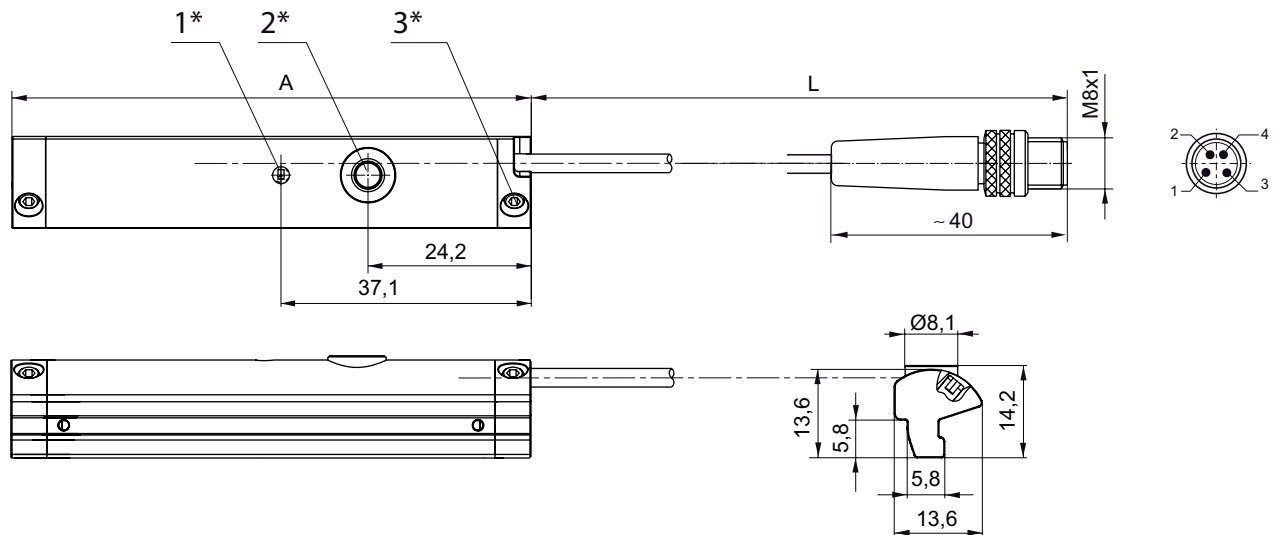
Housing	Polyamide, fiber-glass reinforced
Cable sheath	Polyurethane

Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ Accessories

	Type of contact	Cable length	Measurement range Max.	Overall length Sensor A	Part No.
		[m]	[mm]	[mm]	
	Analog	0.3	32	45	R412010142
			64	77	R412010144
			96	109	R412010263
			128	141	R412010265
			160	173	R412010410
			192	205	R412010412
			224	237	R412010414
			256	269	R412010416
interfaces: Plug; M8x1; 4-pin; with knurled screw short circuit resistant / Protected against polarity reversal / Overload protection					

Dimensions



1* = LED 2* = teach button 3* = threaded pin M3x11

L = cable length

Pin assignment: 1 = (+), 2 = (OUT 1) 3 = (GND), 4 = (OUT 2), EN 60947-5-7

A = sensor length

00133788

Series KPZ Accessories

Sensor, Series SN3

▶ Plug, M12, 3-pin ▶ welding-proof



00118461

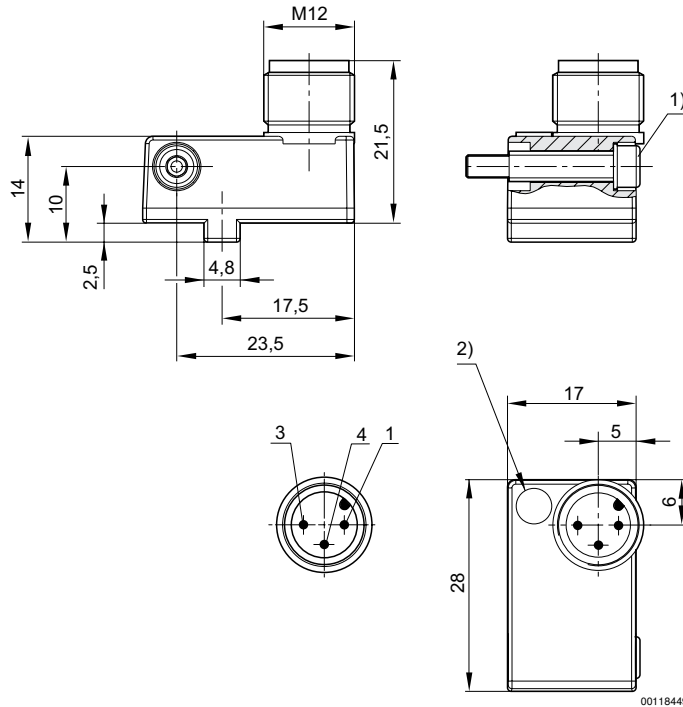
Ambient temperature min./max.	-25°C / +70°C
Protection class	IP67, IP65
Switching point precision [mm]	±0,1
Nominal current, actuated state	≤ 10 mA
Quiescent current (without load)	≤ 5 mA
LED status display	Yellow
Vibration resistance	55 Hz, 1 mm
Shock resistance	30 g / 11 ms

Materials:

Housing Polyamide

	Type of contact	Voltage drop U at I _{max}	DC switching current, max. [A]	Max. switching frequency kHz	Part No.
	electronic PNP	≤ 1,8 V	0.2	0,02	0830100438
interfaces: Plug; M12; 3-pin short circuit resistant / Protected against polarity reversal					

Dimensions



00118449

1) Clamping screw

2) LED

Pin assignments: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Piston rod cylinders ▶ Short-stroke and compact cylinders

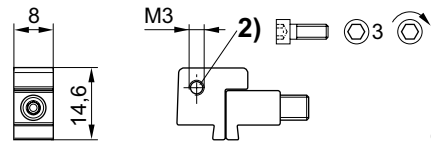
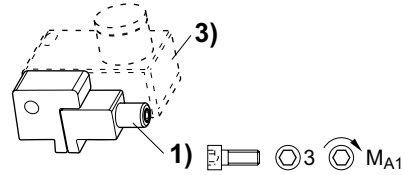
Series KPZ Accessories

Sensor mounting, Series CB1

▶ for Series SN3 ▶ to mount on cylinder PRA, KPZ, GPC, CCI, KHZ



00112453



00122794

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

Part No.	For series	1)	MA1 [Nm]	Material	Weight [kg]			
1827020386	SN3	M3x25	1,8 +0,4	Aluminum	0.007			

Connecting cable, Series CN2

▶ Socket, M8, 3-pin, straight ▶ open cable ends, 3-pin

Ambient temperature min./max.
Protection class

-40°C / +85°C
IP65

Materials:
Cable sheath

Polyurethane



00107009_b

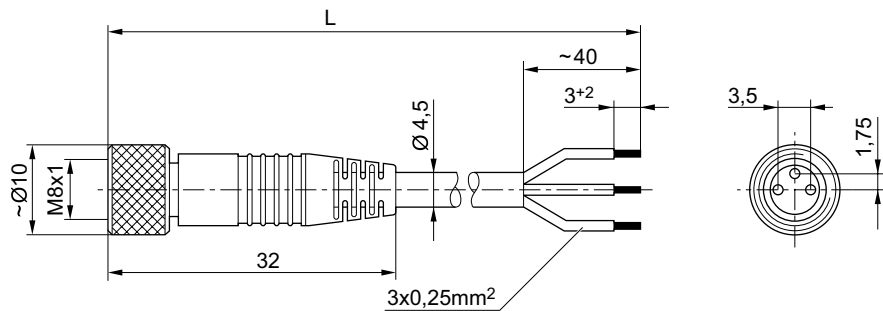
Technical Remarks

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

Max. current	Number of wires	Wire cross-section	Cable-Ø	Cable length L	Weight	Part No.
[A]		[mm ²]	[mm]	[m]	[kg]	
4	3	0.24	4.5	3	0.091	1834484166
				5	0.145	1834484168
				10	0.33	1834484247

Series KPZ Accessories

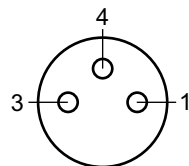
Dimensions



00105612_a

L = length

Pin assignment



Buchse_3-polig

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

Connecting cable, Series CN2

▶ Socket, M8x1, 3-pin, angled ▶ open cable ends, 3-pin



00107009_c

Ambient temperature min./max.

-40 °C / +85 °C

Protection class

IP65

Materials:

Cable sheath

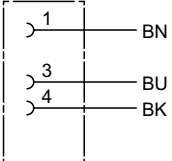
Polyurethane

Technical Remarks

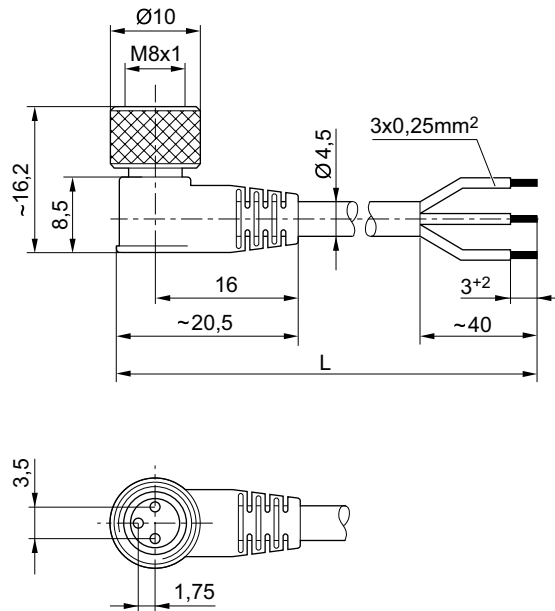
- The specified protection class is only valid in assembled and tested state.

Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ Accessories

	Max. current	Number of wires	Wire cross-section	Cable-Ø	Cable length L	Weight	Part No.
	[A]		[mm ²]	[mm]	[m]	[kg]	
	4	3	0.24	4.5	3	0.092	1834484167
					5	0.141	1834484169
					10	0.276	1834484248

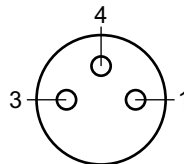
Dimensions



00105612_b

L = length

Pin assignment



Buchse_3-polig

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

Series KPZ

Accessories

Socket, M8x1, Series CN2

▶ Socket, M8x1, 3-pin



00138877

Ambient temperature min./max.
Protection class

-25°C / +80°C
IP67

Materials:
Housing

Polyamide

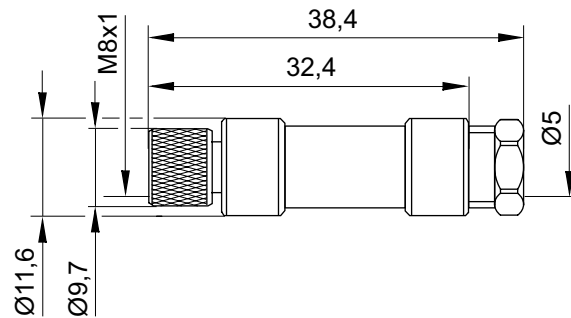
Technical Remarks

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

	Operational voltage	Max. current	Cable exit	suitable cable-Ø min./max	number of plug options ¹	Housing color	Part No.
	AC						
	[V]	[A]		[mm]			
	48	4	straight	3.5 / 5	1 position	Black	1834484173

Part No.	Weight
	[kg]
1834484173	0.008

Dimensions

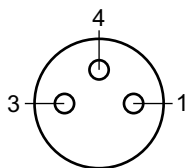


16405

Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ Accessories

Pin assignment



Buchse_3-polig

Socket, M8x1, Series CN2 ▶ Socket, M8x1, 3-pin, angled



16406

Ambient temperature min./max.
Protection class

-25°C / +85°C
IP65

Materials:
Housing

Polyamide

Technical Remarks

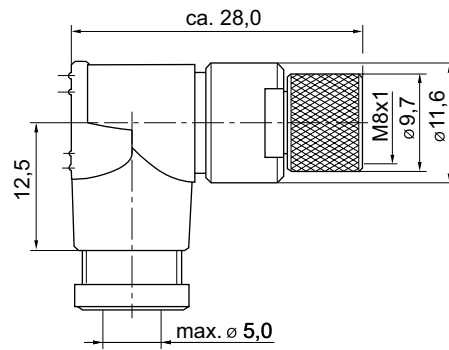
- The specified protection class is only valid in assembled and tested state.

	Operational voltage	Max. current	Contact assignment	Cable exit	suitable cable-Ø min./max	number of plug options ¹	Part No.
	AC						
	[V]	[A]			[mm]		
	48	4	3	angled 90°	3.5 / 5	1 position	1834484174

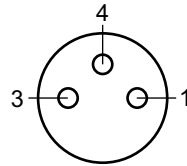
Part No.	Housing color	Weight
		[kg]
1834484174	Black	0.008

Series KPZ
Accessories

Dimensions



Pin assignment



Buchse_3-polig

Piston rod cylinders ▶ Short-stroke and compact cylinders

Series KPZ
Accessories

Silencers, Series SI1
▶ Sintered bronze



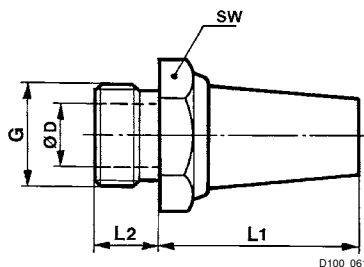
P100_060

Working pressure min./max. 0 bar / 10 bar
 Ambient temperature min./max. -25°C / +80°C
 Medium Compressed air

Materials:
 Silencers Sintered bronze
 Thread Brass

Compressed air connection	Sound pressure level	Qn	Order quantity	Weight	Part No.
	[dB]	[l/min]	[piece]	[kg]	
M5	72	460	10	0.004	1827000006
G 1/8	75	1500	10	0.01	1827000000

Dimensions



Part No.	Port G	SW	Ø D	L1	L2						
1827000006	M5	7	2.5	15	5						
1827000000	G 1/8	13	6	18	6						

Sound pressure level measured at 6 bar at 1 m distance

Silencers, Series SI1
▶ Sintered bronze



P100_037

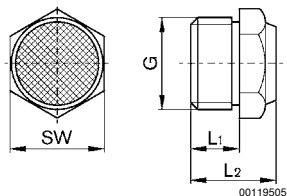
Working pressure min./max. 0 bar / 10 bar
 Ambient temperature min./max. -25°C / +80°C
 Medium Compressed air

Materials:
 Silencers Sintered bronze
 Thread Brass

Series KPZ Accessories

Compressed air connection	Sound pressure level	Qn	Order quantity	Weight	Part No.
	[dB]	[l/min]	[piece]	[kg]	
M5	79	280	10	0.005	1827000032
G 1/8	85	640	10	0.001	1827000031

Dimensions



Part No.	Port G	L1	L2	SW								
1827000032	M5	5	10.3	7								
1827000031	G 1/8	6	11.5	13								

Sound pressure level measured at 6 bar at 1 m distance

AVENTICS GmbH
Ulmer Straße 4
30880 Laatzen, GERMANY
Phone +49 511 2136-0
Fax +49 511 2136-269
www.aventics.com
info@aventics.com



Find more contact information at
www.aventics.com/contact

Only use the AVENTICS products shown in industrial applications. Read the product documentation completely and carefully before using the product.

Observe the applicable regulations and laws of the respective country. When integrating the product into applications, note the system manufacturer's specifications for safe use of the product.

The data specified only serve to describe the product.

No statements concerning a certain condition or suitability for a certain application can be derived from our information.

The information given does not release the user from the obligation of own judgment and verification. It must be remembered that the products are subject to a natural process of wear and aging.

04-05-2017

An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. © AVENTICS S.à r.l.
This document, as well as the data, specifications and other information set forth in it, are the exclusive property of AVENTICS S.à r.l.. It may not be reproduced or given to third parties without its consent. PDF online