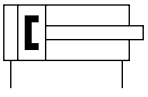
Piston rod cylinder → Short-stroke and compact cylinders

Compact cylinder, Series KPZ

► Ø 16 - 100 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► Piston rod: external thread ► ATEX optional

Standards	NFE 49004
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	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6 bar

00105125



Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Nut for piston rod	Steel, hardened
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 Bosch Rexroth, 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 to +50°C.

Piston Ø		[mm]	16	20	25	32	40
Retracting piston force		[N]	79	121	216	364	602
Extracting piston force		[N]	106	164	259	422	665
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]	200	200	200	300	300

Piston Ø		[mm]	50	63	80	100	
Retracting piston force		[N]	930	1532	2492	3886	
Extracting piston force		[N]	1035	1647	2656	4145	
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]	300	300	400	400	

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	Piston Ø **Piston rod thread** **Ports**	**16** **M8** **M5**	**20** **M10x1,25** **M5**	**25** **M10x1,25** **M5**	**32** **M10x1,25** **G 1/8**	**40** **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** **M12x1,25** **G 1/8**	**63** **M12x1,25** **G 1/8**	**80** **M16x1,5** **G 1/8**	**100** **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 www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

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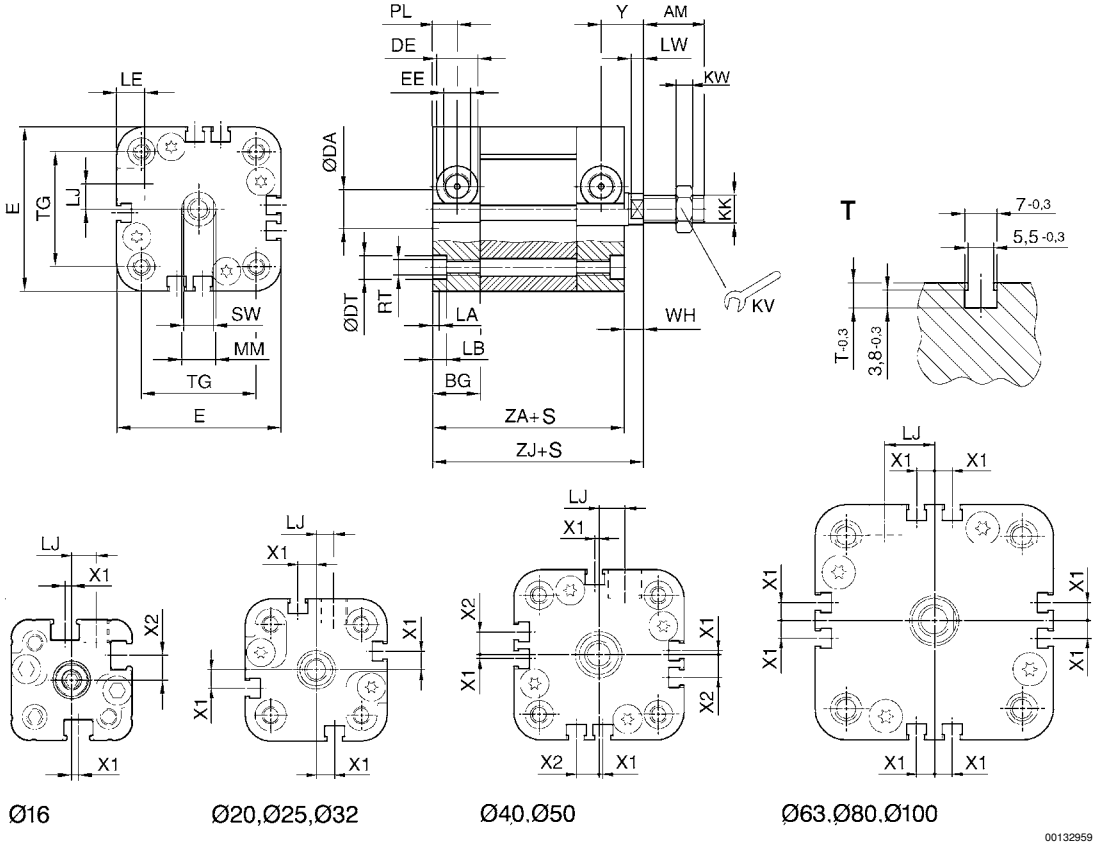
Dimensions



S = stroke
T = View for sensor groove

Piston Ø	AM	BG	DA H11	DE	DT H13	E	EE	KK	KV	KW	LA	LB	LE
16	20	12.5	10	8	6	29.5	M5	M8	13	4	2.5	4	5
20	22	12.5	12	8	8	36	M5	M10x1,25	17	6	2.5	4.4	5
25	22	13	12	8	8	40	M5	M10x1,25	17	6	2.5	4.4	5
32	22	14.5	14	15	11	50	G 1/8	M10x1,25	17	6	2.5	5.4	8
40	22	14.5	14	15	10	60	G 1/8	M10x1,25	17	6	2.5	5.4	8
50	24	14.5	18	15	11	68	G 1/8	M12x1,25	19	7	2.5	1.7	8
63	24	14.5	18	15	11	84	G 1/8	M12x1,25	19	7	2.5	1.7	8
80	32	16.5	23	15	15	103	G 1/8	M16x1,5	24	8	3	0.5	8
100	40	19.5	28	15	15	124	G 1/8	M20x1,5	30	10	3	3.5	8

Piston Ø	LJ	LW	MM f8	PL	RT 6H	SW	T	TG	WH	X1	X2	Y	ZA +1
16	6.1	3.7	8	7.5	M4	7	5.3	18 ±0,4	4.5	1.6	6	12	38
20	4.5	4	10	7.5	M5	8	5.3	22 ±0,4	5	3.4	–	13.5	38
25	5.4	4	10	7.5	M5	8	5.3	26 ±0,4	5.5	3.4	–	13.5	39.5
32	5.1	4.5	12	7.5	M6	10	5.3	32 ±0,5	7	6.5	–	14.5	44
40	9.6	4.5	12	7.5	M6	10	5.4	42 ±0,5	7	1.4	8	14.5	45
50	8.5	6	16	7.5	M8	13	5.5	50 ±0,6	7.5	3.4	7	15.5	45.5
63	17.8	6	16	7.5	M8	13	5.7	62 ±0,7	8	6.15	–	15.5	50
80	22.9	7	20	8.3	M10	16	6.1	82 ±0,7	9.5	7.7	–	18	55.5
100	27.4	8	25	9.7	M10	21	6.1	103 ±0,7	10.5	7.7	–	20	66.5

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Piston Ø	ZJ												
16	42,5 0/+1,2												
20	43 0/+1,4												
25	45 0/+1,4												
32	51 0/+1,6												
40	52 0/+1,6												
50	53 0/+1,6												
63	58 ±1												
80	65 ±1												
100	77 0/+2												