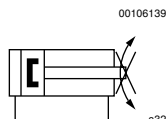


Piston rod cylinder ▶ Short-stroke and compact cylinders

Compact cylinder, Series KPZ

▶ Ø 16 - 100 mm ▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ cushioning: elastic ▶ Piston rod: non-rotating, with front plate



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/m ³ - 5 mg/m ³
Pressure for determining piston forces	6 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“.

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]	0.09	0.129	0.143	0.322	0.483
	+10 mm stroke	[kg]	0.016	0.02	0.02	0.04	0.04
Stroke max.		[mm]	200	200	200	300	300

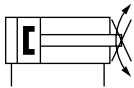
Piston Ø		[mm]	50	63	80	100
Retracting piston force		[N]	930	1532	2492	3886
Extracting piston force		[N]	1035	1647	2656	4145
Impact energy		[J]	0.64	0.75	0.75	1
Weight	0 mm stroke	[kg]	0.642	1.075	1.757	2.996
	+10 mm stroke	[kg]	0.04	0.06	0.12	0.15
Stroke max.		[mm]	300	300	400	400

Piston rod cylinder ▶ Short-stroke and compact cylinders

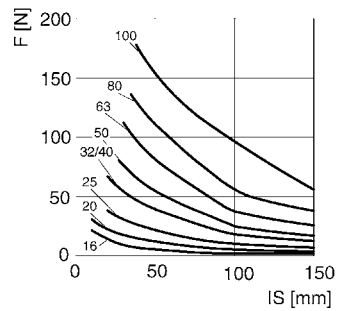
Compact cylinder, Series KPZ

▶ Ø 16 - 100 mm ▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ cushioning: elastic ▶ Piston rod: non-rotating, with front plate

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	



Maximum permissible lateral force



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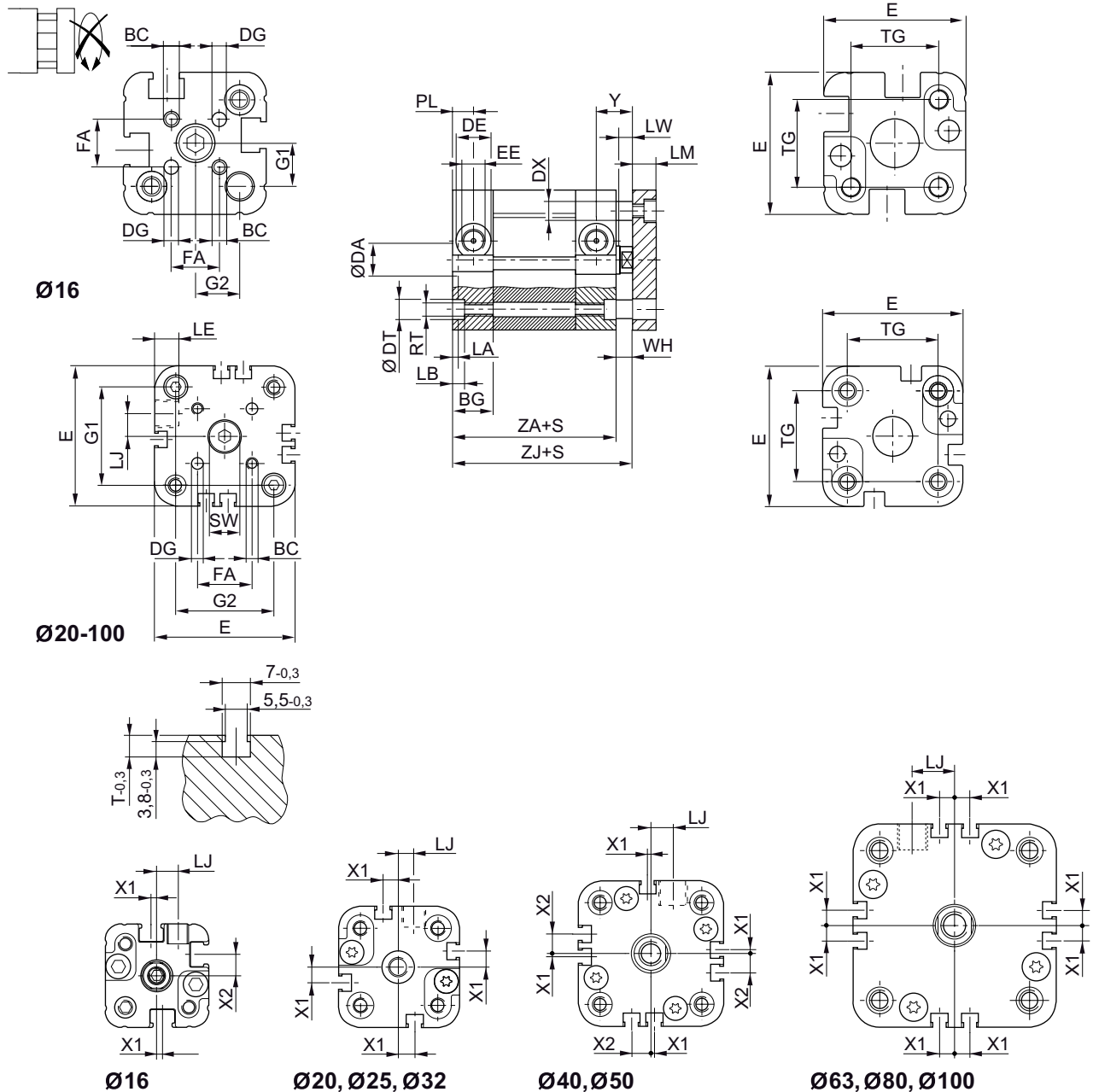
F = maximum permissible lateral force, S = stroke

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: non-rotating, with front plate

Dimensions



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

00132966

Piston Ø	BC 6H	BG	DA H11	DE	DG H13	DT H13	DX	E	EE	FA ±0,1	G1	G2	LA
16	M3	12.5	10	8	3	6	6	29.5	M5	9.9	9.3	9.3	2.5
20	M4	12.5	12	8	4	8	5	36	M5	12	23	24.4	2.5
25	M5	13	12	8	5	8	6	40	M5	15.6	27	27	2.5
32	M5	14.5	14	15	5	11	8	50	G 1/8	19.8	33.2	34.4	2.5
40	M5	14.5	14	15	5	10	8	60	G 1/8	23.3	42	42	2.5

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: non-rotating, with front plate

Piston Ø	BC 6H	BG	DA H11	DE	DG H13	DT H13	DX	E	EE	FA ±0,1	G1	G2	LA
50	M6	14.5	18	15	6	11	10	68	G 1/8	29.7	49	49.8	2.5
63	M6	14.5	18	15	6	11	12	84	G 1/8	35.4	63	63	2.5
80	M8	16.5	23	15	8	15	12	103	G 1/8	46	77.8	77.8	3
100	M10	19.5	28	15	10	15	12	124	G 1/8	56.6	95.6	95.6	3

Piston Ø	LB	LE	LJ	LM	LW	PL	RT H6	SW H13	T	TG	WH	X1	X2
16	4	5	6.1	6	3.7	7.5	M4	7	5.3	18 ±0,4	4.5	1.6	6
20	4.4	5	4.5	8	4	7.5	M5	8	5.3	22 ±0,4	5	3.4	-
25	4.4	5	5.4	8	4	7.5	M5	8	5.3	26 ±0,4	5.5	3.4	-
32	5.4	8	5.1	10	4.5	7.5	M6	10	5.3	32 ±0,5	7	6.5	-
40	5.4	8	9.6	10	4.5	7.5	M6	10	5.4	42 ±0,5	7	1.4	8
50	1.7	8	8.5	12	6	7.5	M8	13	5.5	50 ±0,6	7.5	3.4	7
63	1.7	8	17.8	12	6	7.5	M8	13	5.7	62 ±0,7	8	6.15	-
80	0.5	8	22.9	14	7	8.3	M10	16	6.1	82 ±0,7	9.5	7.7	-
100	3.5	8	27.4	14	8	9.7	M10	21	6.1	103 ±0,7	10.5	7.7	-

Piston Ø	Y	ZA +1	ZJ										
16	12	38	42,5 0/+1,2										
20	13.5	38	43 0/+1,4										
25	13.5	39.5	45 0/+1,4										
32	14.5	44	51 0/+1,6										
40	14.5	45	52 0/+1,6										
50	15.5	45.5	53 0/+1,6										
63	15.5	50	58 ±1										
80	18	55.5	65 ±1										
100	20	66.5	77 0/+2										