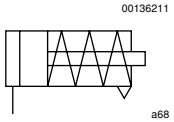
Short-stroke cylinder, Series KHZ

► Ø 8 - 100 mm ► Ports: M5 - G 1/4 ► Single-acting, retracted without pressure ► cushioning: elastic ► Piston rod: internal thread



Compressed air connection	internal thread
Ambient temperature min./max.	-25 °C / +80 °C
Medium temperature min./max.	-25 °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
Piston	Nitrile rubber
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“.

Piston Ø	[mm]	8	12	16	20	25
Retracting piston force	[N]	2.8	6.8	8	6.5	15.5
Extracting piston force	[N]	32	71	127	198	309
Working pressure min./max.	[bar]	2 - 10	1.7 - 10	1.5 - 10	1.5 - 10	1.5 - 10
Material, front cover		Brass	Brass	Brass	Brass	Brass

Piston Ø	[mm]	32	40	50	63	80
Retracting piston force	[N]	18.5	26	39	48	54
Extracting piston force	[N]	507	792	1237	1964	3167
Working pressure min./max.	[bar]	1.3 - 10	1.3 - 10	1 - 10	1 - 10	1 - 10
Material, front cover		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum

Piston Ø	[mm]	100				
Retracting piston force	[N]	95				
Extracting piston force	[N]	4948				
Working pressure min./max.	[bar]	1 - 10				
Material, front cover		Aluminum				

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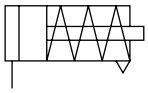

	Piston Ø	8	12	16	20	25
	Piston rod thread	-	-	M5	M5	M5
	Ports	M5	M5	M5	M5	G 1/8
	Stroke 4	**0822406001**	**0822406020**	**0822406310**	**0822406320**	-
	5	-	-	-	-	**0822406330**
	10	-	**0822406021**	**0822406311**	**0822406321**	**0822406331**
	25	-	-	**0822406312**	**0822406322**	**0822406332**
	Piston Ø	**32**	**40**	**50**	**63**	**80**
	Piston rod thread	**M6**	**M6**	**M8**	**M8**	**M10**
	Ports	**G 1/8**	**G 1/8**	**G 1/8**	**G 1/8**	**G 1/4**
	Stroke 4	-	-	-	-	-
	5	**0822406340**	**0822406350**	-	-	-
	10	**0822406341**	**0822406351**	**0822406361**	**0822406371**	-
	25	**0822406342**	**0822406352**	**0822406362**	**0822406372**	**R402005783**
	Piston Ø	**100**				
	Piston rod thread	**M12**				
	Ports	**G 1/4**				
	Stroke 4	-				
	5	-				
	10	-				
	25	**R402005840**				

other versions can be ordered from AVENTICS sales offices
For 0822406310 piston material: Polyurethane

Weight [kg]	Piston Ø	8	12	16	20	25
	Stroke 4	0.017	0.024	0.057	0.061	-
	5	-	-	-	-	0.11
	10	-	0.034	0.075	0.09	0.132
	25	-	-	0.114	0.147	0.218
	Piston Ø	**32**	**40**	**50**	**63**	**80**
	Stroke 4	-	-	-	-	-
	5	0.135	0.225	-	-	-
	10	0.163	0.21	0.268	0.458	-
	25	0.296	0.378	0.492	0.75	1.291
	Piston Ø	**100**				
	Stroke 4	-				
	5	-				
	10	-				
	25	2.302				

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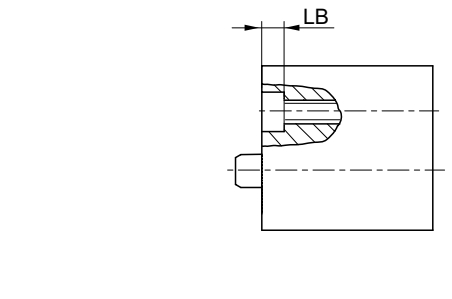
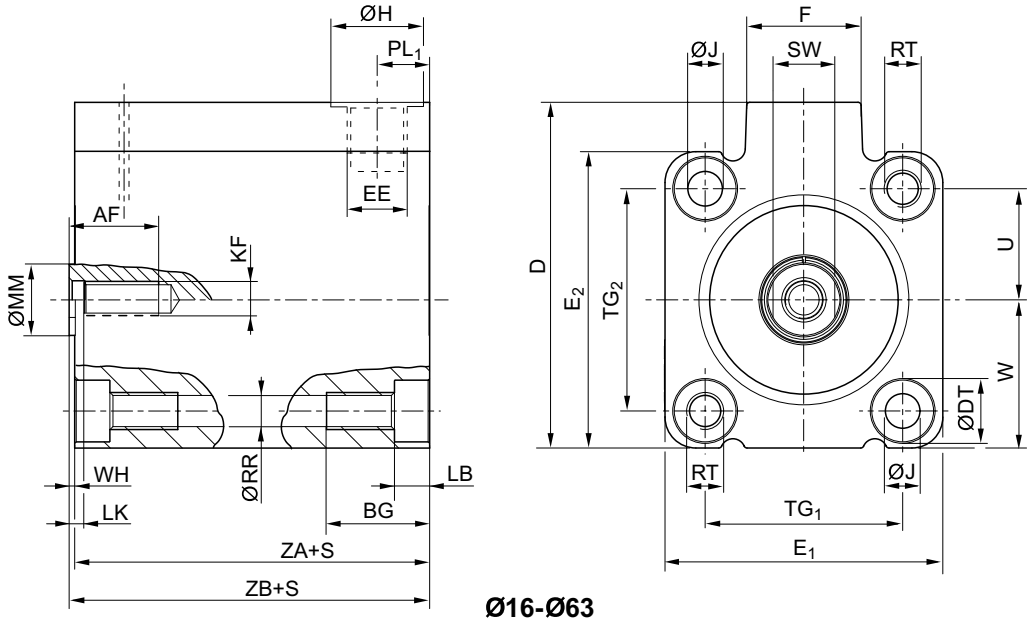
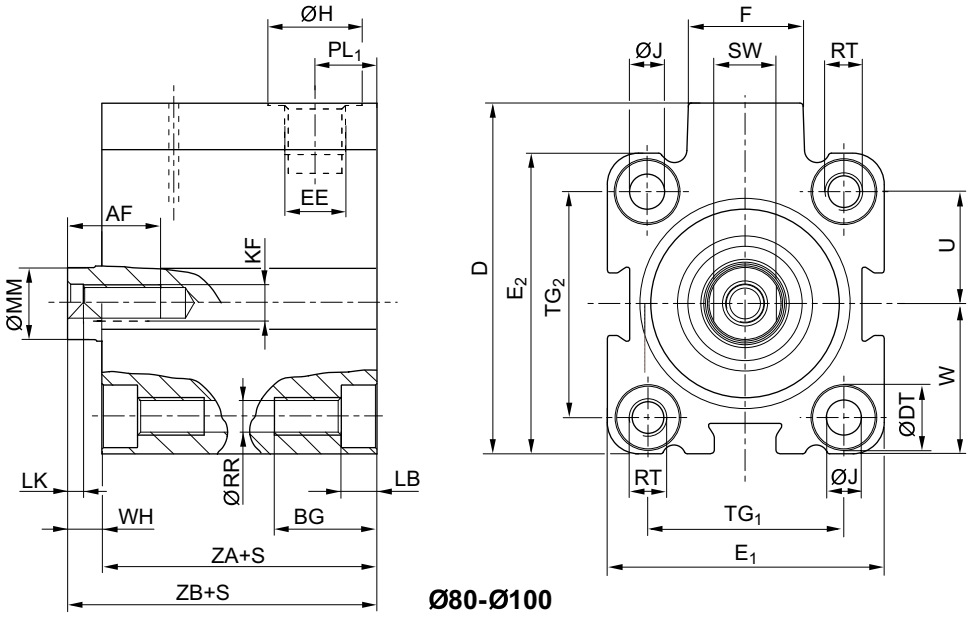
Dimensions



Ø8-Ø12



Ø16-Ø63



Ø80-Ø100

00106557

S = stroke

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

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Piston Ø	S	AF +1	BG [1]	D JS15	ØDT H13	E1 JS15	E2 JS15	EE	F	ØH	ØJ H14	KF	LB +0,4
8	4	–	8	–	6	18	20	M5	–	8	–	–	3.4
12	4	–	8	–	6	20	25	M5	–	8	–	–	3.4
12	10	–	9	–	6	20	25	M5	–	8	–	–	3.4
16	4	10	12.4	33	6	28	28	M5	11.5	8	3.55	M5	3.4
16	10	10	12.4	33	6	28	28	M5	11.5	8	3.55	M5	3.4
16	25	10	17.5	33	6	28	28	M5	11.5	8	3.55	M5	8.5
20	4	9	13.6	37	7.5	32	32	M5	11	8	4.55	M5	4.6
20	10	10	13.6	37	7.5	32	32	M5	11	8	4.55	M5	4.6
20	25	10	13.6	37	7.5	32	32	M5	11	8	4.55	M5	4.6
25	5	10	13.6	47.5	8	37	39	G1/8	17.5	15	4.55	M5	4.6
25	10	10	13.6	47.5	8	37	39	G1/8	17.5	15	4.55	M5	4.6
25	25	10	13.6	47.5	8	37	39	G1/8	17.5	15	4.55	M5	4.6
32	5	14.5	16.7	56	10	45	48	G1/8	18.5	15	5.5	M6	5.7
32	10	14.5	16.7	56	10	45	48	G1/8	18.5	15	5.5	M6	5.7
32	25	14.5	16.7	56	10	45	48	G1/8	18.5	15	5.5	M6	5.7
40	5	13	16.7	62.5	10	54.5	54.5	G1/8	18.5	15	5.5	M6	5.7
40	10	14.5	16.7	62.5	10	54.5	54.5	G1/8	18.5	15	5.5	M6	5.7
40	25	14.5	16.7	62.5	10	54.5	54.5	G1/8	18.5	15	5.5	M6	5.7
50	10	15.5	19.8	72	11	64	64	G1/8	18	15	7.3	M8	6.8
50	25	15.5	19.8	72	11	64	64	G1/8	18	15	7.3	M8	6.8
63	10	18	25	88	15	80	80	G1/8	23	15	9.2	M8	9
63	25	18	25	88	15	80	80	G1/8	23	15	9.2	M8	9
80	25	18	25	110	15	100	100	G1/4	27	19	9.2	M10	9
100	25	20	30	132	17.5	124	124	G1/4	28	19	11	M12	11

Piston Ø	LK +0,5	ØMM f8	PL1	ØRR	RT	SW -0,3	TG1	TG2	U	W	WH	ZA ±0,2
8	–	4	5	3.3	M4	–	11 ±0,2	–	8	6,5 ±0,2	1	12
12	–	5	5	3.3	M4	–	13 ±0,2	–	9	9 ±0,2	1	12
12	–	5	5	3.3	M4	–	13 ±0,2	–	9	9 ±0,2	4	16
16	2	8	5	3.3	M4	7	20 ±0,2	20 ±0,2	10	14 ±0,2	1	20
16	2	8	5	3.3	M4	7	20 ±0,2	20 ±0,2	10	14 ±0,2	1	22
16	2	8	5	3.3	M4	7	20 ±0,2	20 ±0,2	10	14 ±0,2	1	28
20	2	10	5	4.2	M5	8	22 ±0,2	22 ±0,2	11	16 ±0,2	1	16
20	2	10	5	4.2	M5	8	22 ±0,2	22 ±0,2	11	16 ±0,2	1	22
20	2	10	5	4.2	M5	8	22 ±0,2	22 ±0,2	11	16 ±0,2	1	28
25	2	10	8.5	4.2	M5	8	26 ±0,25	28 ±0,25	14	19,5 ±0,2	1	21
25	2	10	8.5	4.2	M5	8	26 ±0,25	28 ±0,25	14	19,5 ±0,2	1	22
25	2	10	8.5	4.2	M5	8	26 ±0,25	28 ±0,25	14	19,5 ±0,2	1	30
32	2.5	12	8.5	5.05	M6	10	32 ±0,25	36 ±0,25	18	24 ±0,2	1	21
32	2.5	12	8.5	5.05	M6	10	32 ±0,25	36 ±0,25	18	24 ±0,2	1	22
32	2.5	12	8.5	5.05	M6	10	32 ±0,25	36 ±0,25	18	24 ±0,2	1	32.5
40	2.5	12	8.5	5.05	M6	10	40 ±0,25	40 ±0,25	20	27,3 ±0,2	1	21
40	2.5	12	8.5	5.05	M6	10	40 ±0,25	40 ±0,25	20	27,3 ±0,2	1	21
40	2.5	12	8.5	5.05	M6	10	40 ±0,25	40 ±0,25	20	27,3 ±0,2	1	32.5
50	3.5	16	8.5	6.8	M8	13	50 ±0,25	50 ±0,25	25	32 ±0,2	1	20
50	3.5	16	8.5	6.8	M8	13	50 ±0,25	50 ±0,25	25	32 ±0,2	1	32.5
63	3.5	16	8.5	8.5	M10	13	62 ±0,25	62 ±0,25	31	40 ±0,2	1	25
63	3.5	16	8.5	8.5	M10	13	62 ±0,25	62 ±0,25	31	40 ±0,2	2	35.5
80	4	20	12	8.5	M10	17	82 ±0,3	82 ±0,3	41	50 ±0,3	1	42
100	4	25	12	10.2	M12	22	103 ±0,3	103 ±0,3	51.5	62 ±0,3	1	49.5

Piston Ø	ZB ±0,8											
8	13											

1) Min.

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Piston Ø	ZB ±0,8												
12	13												
12	20												
16	21												
16	23												
16	29												
20	17												
20	23												
20	29												
25	22												
25	23												
25	31												
32	22												
32	23												
32	33.5												
40	22												
40	22												
40	33.5												
50	21												
50	33.5												
63	26												
63	37.5												
80	43												
100	50.5												

1) Min.