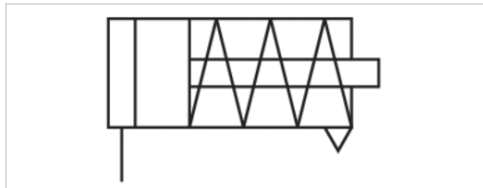


Short-stroke cylinder, Series RHZ

- Ø 8-100 mm
- Ports M5 G 1/8 G 1/4
- Single-acting, retracted without pressure
- Cushioning elastic
- Piston rod Internal thread



Compressed air connection	Internal thread
Ambient temperature min./max.	-25 ... 80 °C
Medium temperature min./max.	-25 ... 80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Pressure for determining piston forces	6.3 bar
Weight	See table below



Technical data

Piston Ø Piston rod thread Ports	8 mm M5	12 mm M5	16 mm M5 M5	20 mm M5 M5	25 mm M5 G 1/8	32 mm M6 G 1/8
Stroke 4	0822406001	0822406020	0822406310	0822406320	-	-
5	-	-	-	-	0822406330	0822406340
10	-	0822406021	0822406311	0822406321	0822406331	0822406341
25	-	-	0822406312	0822406322	0822406332	0822406342

Piston Ø Piston rod thread Ports	40 mm M6 G 1/8	50 mm M8 G 1/8	63 mm M8 G 1/8	80 mm M10 G 1/4	100 mm M12 G 1/4
Stroke 4	-	-	-	-	-
5	0822406350	-	-	-	-
10	0822406351	0822406361	0822406371	-	-
25	0822406352	0822406362	0822406372	R402005783	R402005840

Technical data

Piston Ø	8 mm	12 mm	16 mm	20 mm
Retracting piston force	2,8 N	6,8 N	8 N	6,5 N
Extracting piston force	32 N	71 N	127 N	198 N
Working pressure min./max.	2 ... 10 bar	1,7 ... 10 bar	1,5 ... 10 bar	1,5 ... 10 bar
Material, front cover	Brass	Brass	Brass	Brass

Piston Ø	25 mm	32 mm	40 mm	50 mm
Retracting piston force	15,5 N	18,5 N	26 N	39 N
Extracting piston force	309 N	507 N	792 N	1237 N
Working pressure min./max.	1,5 ... 10 bar	1,3 ... 10 bar	1,3 ... 10 bar	1 ... 10 bar
Material, front cover	Brass	Aluminum	Aluminum	Aluminum

Piston Ø	63 mm	80 mm	100 mm
Retracting piston force	48 N	54 N	95 N
Extracting piston force	1964 N	3167 N	4948 N
Working pressure min./max.	1 ... 10 bar	1 ... 10 bar	1 ... 10 bar
Material, front cover	Aluminum	Aluminum	Aluminum

Technical information

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. Further information can be found in the "Technical information" document (available in the MediaCentre).

Other versions can be ordered from AVENTICS sales offices.

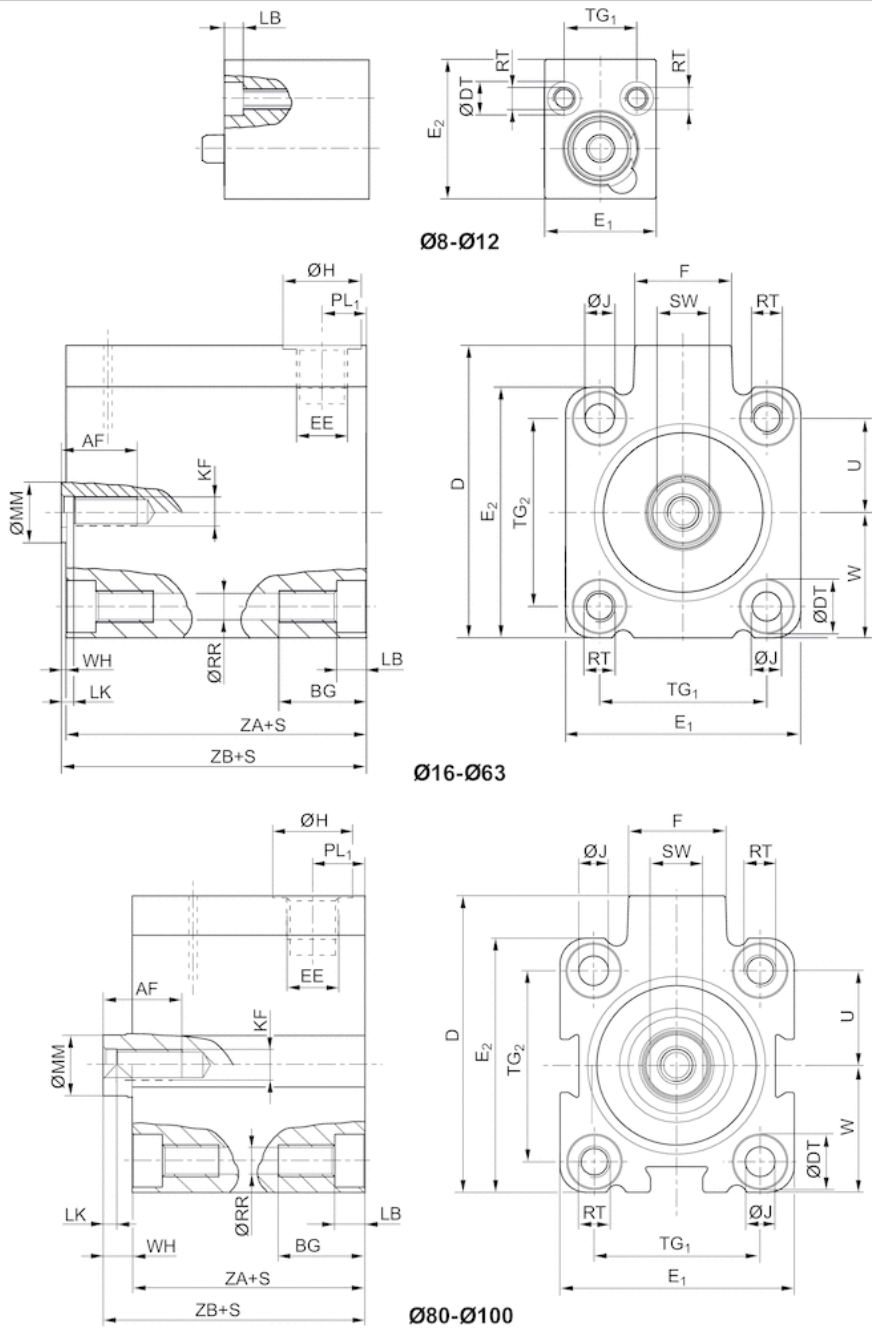
For 0822406310 piston material: Polyurethane

Technical information

Material	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Piston	Nitrile rubber
Front cover	Brass Aluminum
End cover	Aluminum

Dimensions

Dimensions



S = stroke

Dimensions

Piston Ø	Part No.	S	AF +1	BG min.	D JS15	ØDT H13	E1 JS15	E2 JS15	EE	F	ØH
0822406001	8 mm	4	–	8	–	6	18	20	M5	–	8
0822406020	12 mm	4	–	9	–	6	20	25	M5	–	8
0822406021	12 mm	10	–	9	–	6	20	25	M5	–	8
0822406310	16 mm	4	10	12.4	33	6	28	28	M5	11.5	8
0822406311	16 mm	10	10	12.4	33	6	28	28	M5	11.5	8
0822406312	16 mm	25	10	17.5	33	6	28	28	M5	11.5	8
0822406320	20 mm	4	9	13.6	37	7.5	32	32	M5	11	8
0822406321	20 mm	10	10	13.6	37	7.5	32	32	M5	11	8
0822406322	20 mm	25	10	13.6	37	7.5	32	32	M5	11	8
0822406330	25 mm	5	10	13.6	47.5	8	37	39	G1/8	17.5	15
0822406331	25 mm	10	10	13.6	47.5	8	37	39	G1/8	17.5	15
0822406332	25 mm	25	10	13.6	47.5	8	37	39	G1/8	17.5	15
0822406340	32 mm	5	13.5	16.7	56	10	45	48	G1/8	18.5	15
0822406341	32 mm	10	14.5	16.7	56	10	45	48	G1/8	18.5	15
0822406342	32 mm	25	14.5	16.7	56	10	45	48	G1/8	18.5	15
0822406350	40 mm	5	13	16.7	62.5	10	54.5	54.5	G1/8	18.5	15
0822406351	40 mm	10	14.5	16.7	62.5	10	54.5	54.5	G1/8	18.5	15
0822406352	40 mm	25	14.5	16.7	62.5	10	54.5	54.5	G1/8	18.5	15
0822406361	50 mm	10	15.5	19.8	72	11	64	64	G1/8	18	15
0822406362	50 mm	25	15.5	19.8	72	11	64	64	G1/8	18	15
0822406371	63 mm	10	18	25	88	15	80	80	G1/8	23	15
0822406372	63 mm	25	18	25	88	15	80	80	G1/8	23	15
R402005783	80 mm	25	18	25	110	15	100	100	G1/4	27	19
R402005840	100 mm	25	20	30	132	17.5	124	124	G1/4	28	19

Piston Ø	ØJ H14	KF	LB +0,4	LK +0,5	ØMM f8	PL1	ØRR	RT	SW -0,3	TG1	TG2
0822406001	–	–	3.4	–	4	5	3.3	M4	–	11 ±0,2	–
0822406020	–	–	3.4	–	5	5	3.3	M4	–	13 ±0,2	–
0822406021	–	–	3.4	–	5	5	3.3	M4	–	13 ±0,2	–
0822406310	3.55	M5	3.4	2	8	5	3.3	M4	7	20 ±0,2	20 ±0,2
0822406311	3.55	M5	3.4	2	8	5	3.3	M4	7	20 ±0,2	20 ±0,2
0822406312	3.55	M5	8.5	2	8	5	3.3	M4	7	20 ±0,2	20 ±0,2
0822406320	4.55	M5	4.6	2	10	5	4.2	M5	8	22 ±0,2	22 ±0,2
0822406321	4.55	M5	4.6	2	10	5	4.2	M5	8	22 ±0,2	22 ±0,2
0822406322	4.55	M5	4.6	2	10	5	4.2	M5	8	22 ±0,2	22 ±0,2
0822406330	4.55	M5	4.6	2	10	8.5	4.2	M5	8	26 ±0,25	28 ±0,25
0822406331	4.55	M5	4.6	2	10	8.5	4.2	M5	8	26 ±0,25	28 ±0,25
0822406332	4.55	M5	4.6	2	10	8.5	4.2	M5	8	26 ±0,25	28 ±0,25
0822406340	5.5	M6	5.7	2.5	12	8.5	5.05	M6	10	32 ±0,25	36 ±0,25
0822406341	5.5	M6	5.7	2.5	12	8.5	5.05	M6	10	32 ±0,25	36 ±0,25
0822406342	5.5	M6	5.7	2.5	12	8.5	5.05	M6	10	32 ±0,25	36 ±0,25
0822406350	5.5	M6	5.7	2.5	12	8.5	5.05	M6	10	40 ±0,25	40 ±0,25
0822406351	5.5	M6	5.7	2.5	12	8.5	5.05	M6	10	40 ±0,25	40 ±0,25
0822406352	5.5	M6	5.7	2.5	12	8.5	5.05	M6	10	40 ±0,25	40 ±0,25
0822406361	7.3	M8	6.8	3.5	16	8.5	6.8	M8	13	50 ±0,25	50 ±0,25
0822406362	7.3	M8	6.8	3.5	16	8.5	6.8	M8	13	50 ±0,25	50 ±0,25

Piston Ø	ØJ H14	KF	LB +0,4	LK +0,5	ØMM f8	PL1	ØRR	RT	SW -0,3	TG1	TG2
0822406371	9.2	M8	9	3.5	16	8.5	8.5	M10	13	62 ±0,25	62 ±0,25
0822406372	9.2	M8	9	3.5	16	8.5	8.5	M10	13	62 ±0,25	62 ±0,25
R402005783	9.2	M10	9	4	20	12	8.5	M10	17	82 ±0,3	82 ±0,3
R402005840	11	M12	11	4	25	12	10.2	M12	22	103 ±0,3	103 ±0,3

Piston Ø	U	W	WH	ZA ±0,2	ZB ±0,8
0822406001	8	6,5 ±0,2	1	12	13
0822406020	9	9 ±0,2	1	12	13
0822406021	9	9 ±0,2	4	16	20
0822406310	10	14 ±0,2	1	20	21
0822406311	10	14 ±0,2	1	22	23
0822406312	10	14 ±0,2	1	28	29
0822406320	11	16 ±0,2	1	16	17
0822406321	11	16 ±0,2	1	22	23
0822406322	11	16 ±0,2	1	28	29
0822406330	14	19,5 ±0,2	1	21	22
0822406331	14	19,5 ±0,2	1	22	23
0822406332	14	19,5 ±0,2	1	30	31
0822406340	18	24 ±0,2	1	21	22
0822406341	18	24 ±0,2	1	22	23
0822406342	18	24 ±0,2	1	32.5	33.5
0822406350	20	27,3 ±0,2	1	21	22
0822406351	20	27,3 ±0,2	1	21	22
0822406352	20	27,3 ±0,2	1	32.5	33.5
0822406361	25	32 ±0,2	1	20	21
0822406362	25	32 ±0,2	1	32.5	33.5
0822406371	31	40 ±0,2	1	25	26
0822406372	31	40 ±0,2	2	35.5	37.5
R402005783	41	50 ±0,3	1	42	43
R402005840	51.5	62 ±0,3	1	49.5	50.5

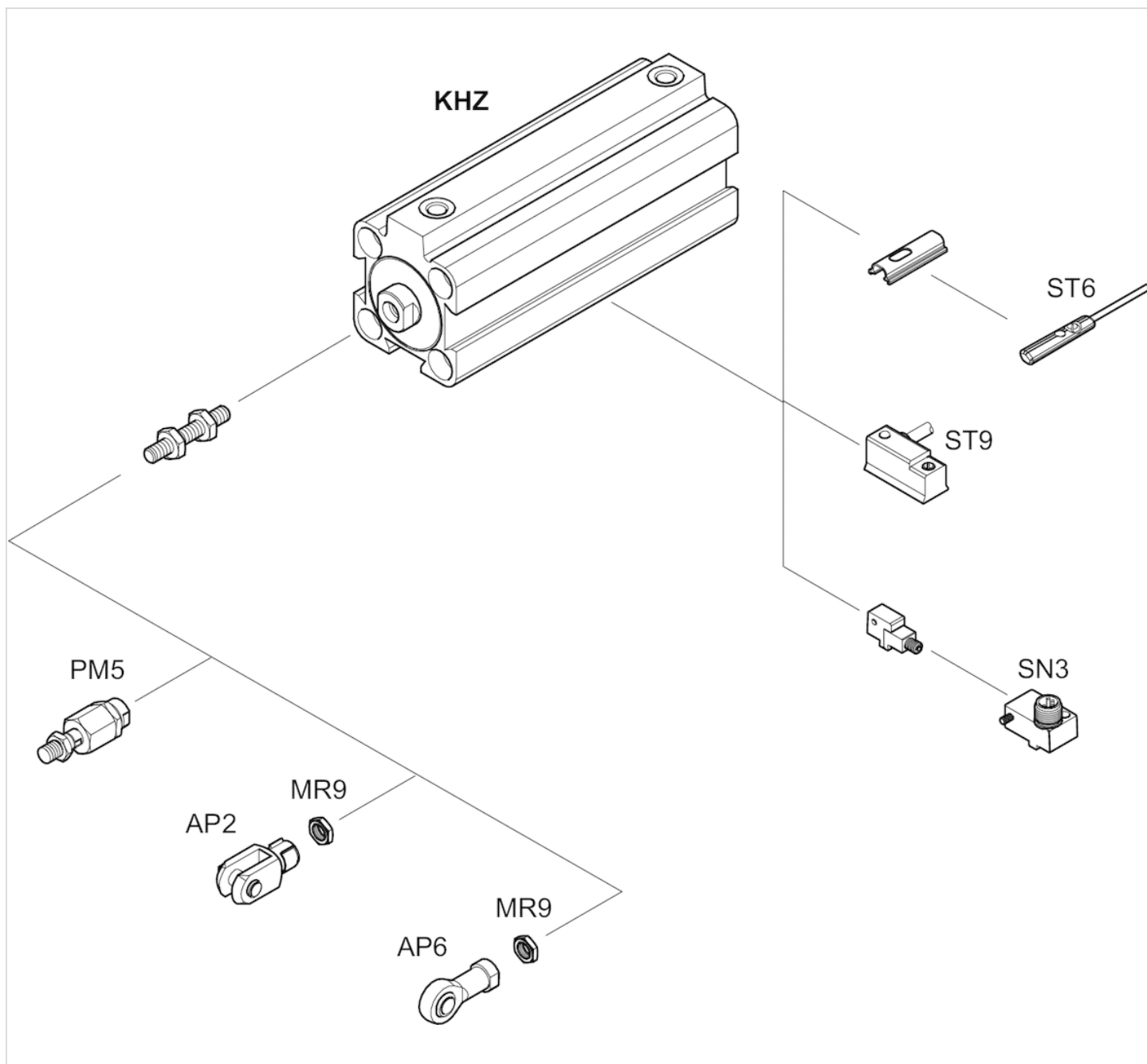
Dimensions

Piston Ø	S	Weight kg
8 mm	4	0,017 kg
12 mm	4	0,024 kg
12 mm	10	0,034 kg
16 mm	4	0,057 kg
16 mm	10	0,075 kg
16 mm	25	0,114 kg
20 mm	4	0,061 kg
20 mm	10	0,09 kg
20 mm	25	0,147 kg
25 mm	5	0,11 kg
25 mm	10	0,132 kg
25 mm	25	0,218 kg
32 mm	5	0,135 kg
32 mm	10	0,163 kg
32 mm	25	0,296 kg

Piston Ø	S	Weight kg
40 mm	5	0,225 kg
40 mm	10	0,21 kg
40 mm	25	0,378 kg
50 mm	10	0,268 kg
50 mm	25	0,492 kg
63 mm	10	0,458 kg
63 mm	25	0,75 kg
80 mm	25	1,29 kg
100 mm	25	2,3 kg

Accessories overview

Overview drawing



NOTE:

This overview drawing is only for orientation to indicate 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.

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