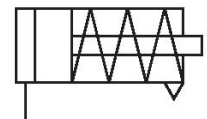


AVENTICS Series KHZ Short-stroke cylinders

The AVENTICS Series KHZ is a non-standard short-stroke cylinder ideal for tight installation spaces and ensure easy, safe integration in machinery.



Technical data

Industry	Industrial
Piston Ø	12 mm
Stroke	10 mm
Ports	M5
Functional principle	Single-acting, retracted without pressure
Cushioning	elastic cushioning
Magnetic piston	Piston without magnet
Environmental requirements	Industry standard
Piston rod thread - type	Internal thread
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Retracting piston force	6.8 N
Extracting piston force	71 N
Min. ambient temperature	-25 °C
Max. ambient temperature	80 °C
Min. working pressure	1.7 bar
Max. working pressure	10 bar
Weight	0.034 kg
Medium	Compressed air
Min. medium temperature	-25 °C
Max. medium temperature	80 °C

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Max. particle size	50 µm
Min. oil content of compressed air	0 mg/m ³
Max. oil content of compressed air	5 mg/m ³

Material

Piston rod	Stainless Steel
Piston material	Nitrile rubber
Material, front cover	Brass
Cylinder tube	Aluminum
End cover	Aluminum
Part No.	0822406021

Technical information

Other versions can be ordered from AVENTICS sales offices.

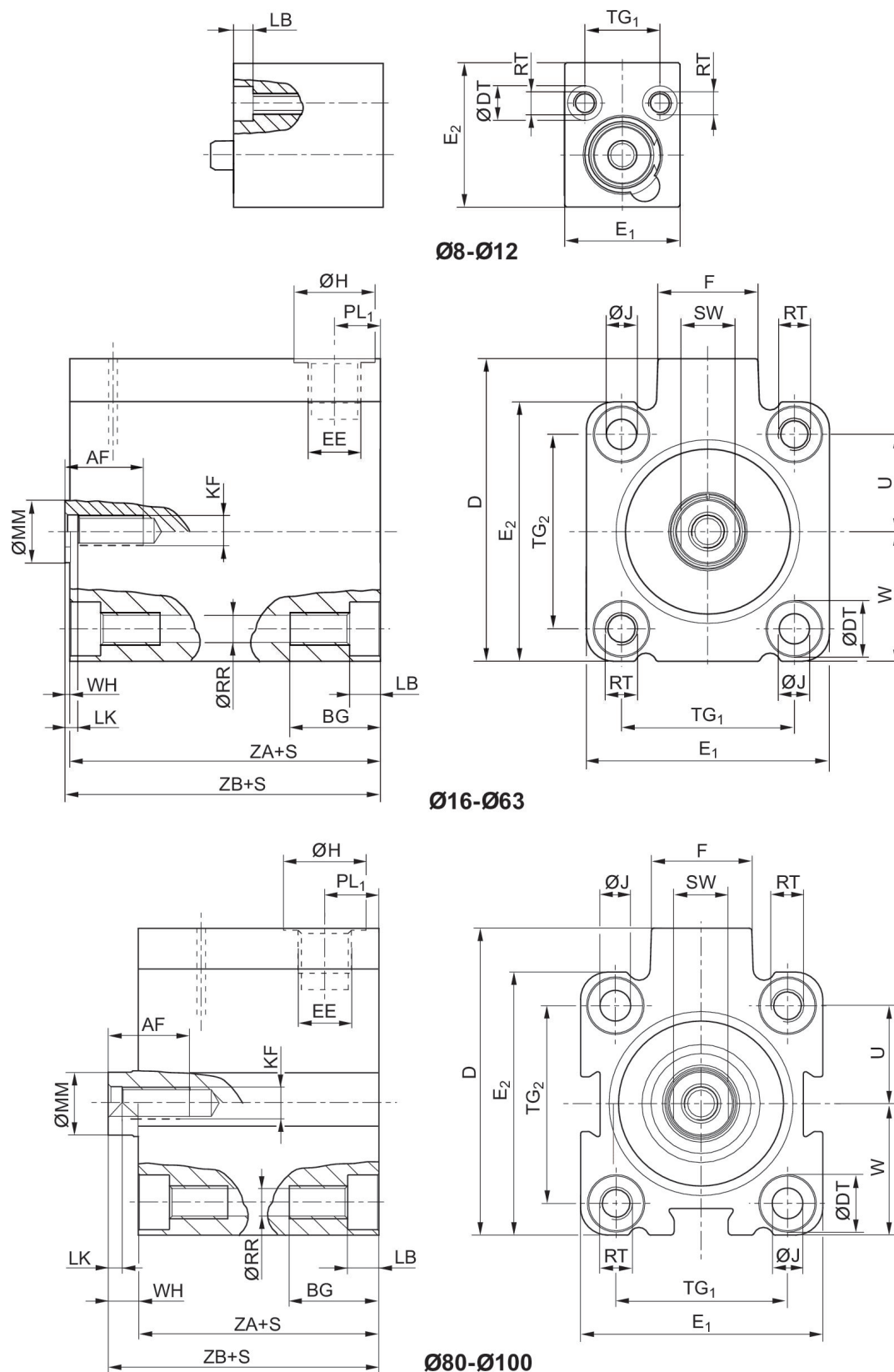
For 0822406310 piston material: Polyurethane

The pressure dew point must be at least 15 °C less than 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 <https://www.emerson.com/en-us/support>).

Dimensions



S = stroke

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

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Part No.	Piston Ø	ØH	ØJ H14	KF	LB +0,4	LK +0,5	ØMM f8	PL1	ØRR	RT
0822406001	8	8	—	—	3.4	—	4	5	3.3	M4
0822406020	12	8	—	—	3.4	—	5	5	3.3	M4
0822406021	12	8	—	—	3.4	—	5	5	3.3	M4
0822406310	16	8	3.55	M5	3.4	2	8	5	3.3	M4
0822406311	16	8	3.55	M5	3.4	2	8	5	3.3	M4
0822406312	16	8	3.55	M5	8.5	2	8	5	3.3	M4
0822406320	20	8	4.55	M5	4.6	2	10	5	4.2	M5
0822406321	20	8	4.55	M5	4.6	2	10	5	4.2	M5
0822406322	20	8	4.55	M5	4.6	2	10	5	4.2	M5
0822406330	25	15	4.55	M5	4.6	2	10	8.5	4.2	M5
0822406331	25	15	4.55	M5	4.6	2	10	8.5	4.2	M5
0822406332	25	15	4.55	M5	4.6	2	10	8.5	4.2	M5
0822406340	32	15	5.5	M6	5.7	2.5	12	8.5	5.05	M6
0822406341	32	15	5.5	M6	5.7	2.5	12	8.5	5.05	M6
0822406342	32	15	5.5	M6	5.7	2.5	12	8.5	5.05	M6
0822406350	40	15	5.5	M6	5.7	2.5	12	8.5	5.05	M6
0822406351	40	15	5.5	M6	5.7	2.5	12	8.5	5.05	M6
0822406352	40	15	5.5	M6	5.7	2.5	12	8.5	5.05	M6
0822406361	50	15	7.3	M8	6.8	3.5	16	8.5	6.8	M8
0822406362	50	15	7.3	M8	6.8	3.5	16	8.5	6.8	M8
0822406371	63	15	9.2	M8	9	3.5	16	8.5	8.5	M10
0822406372	63	15	9.2	M8	9	3.5	16	8.5	8.5	M10
R402005783	80	19	9.2	M10	9	4	20	12	8.5	M10
R402005840	100	19	11	M12	11	4	25	12	10.2	M12

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Part No.	Piston Ø	SW -0,3	TG1	TG2	U	W	WH	ZA ±0,2	ZB ±0,8
0822406001	8	–	11 ±0,2	–	8	6,5 ±0,2	1	12	13
0822406020	12	–	13 ±0,2	–	9	9 ±0,2	1	12	13
0822406021	12	–	13 ±0,2	–	9	9 ±0,2	4	16	20
0822406310	16	7	20 ±0,2	20 ±0,2	10	14 ±0,2	1	20	21
0822406311	16	7	20 ±0,2	20 ±0,2	10	14 ±0,2	1	22	23
0822406312	16	7	20 ±0,2	20 ±0,2	10	14 ±0,2	1	28	29
0822406320	20	8	22 ±0,2	22 ±0,2	11	16 ±0,2	1	16	17
0822406321	20	8	22 ±0,2	22 ±0,2	11	16 ±0,2	1	22	23
0822406322	20	8	22 ±0,2	22 ±0,2	11	16 ±0,2	1	28	29
0822406330	25	8	26 ±0,25	28 ±0,25	14	19,5 ±0,2	1	21	22
0822406331	25	8	26 ±0,25	28 ±0,25	14	19,5 ±0,2	1	22	23
0822406332	25	8	26 ±0,25	28 ±0,25	14	19,5 ±0,2	1	30	31
0822406340	32	10	32 ±0,25	36 ±0,25	18	24 ±0,2	1	21	22
0822406341	32	10	32 ±0,25	36 ±0,25	18	24 ±0,2	1	22	23
0822406342	32	10	32 ±0,25	36 ±0,25	18	24 ±0,2	1	32.5	33.5
0822406350	40	10	40 ±0,25	40 ±0,25	20	27,3 ±0,2	1	21	22
0822406351	40	10	40 ±0,25	40 ±0,25	20	27,3 ±0,2	1	21	22
0822406352	40	10	40 ±0,25	40 ±0,25	20	27,3 ±0,2	1	32.5	33.5
0822406361	50	13	50 ±0,25	50 ±0,25	25	32 ±0,2	1	20	21
0822406362	50	13	50 ±0,25	50 ±0,25	25	32 ±0,2	1	32.5	33.5
0822406371	63	13	62 ±0,25	62 ±0,25	31	40 ±0,2	1	25	26
0822406372	63	13	62 ±0,25	62 ±0,25	31	40 ±0,2	2	35.5	37.5
R402005783	80	17	82 ±0,3	82 ±0,3	41	50 ±0,3	1	42	43
R402005840	100	22	103 ±0,3	103 ±0,3	51.5	62 ±0,3	1	49.5	50.5

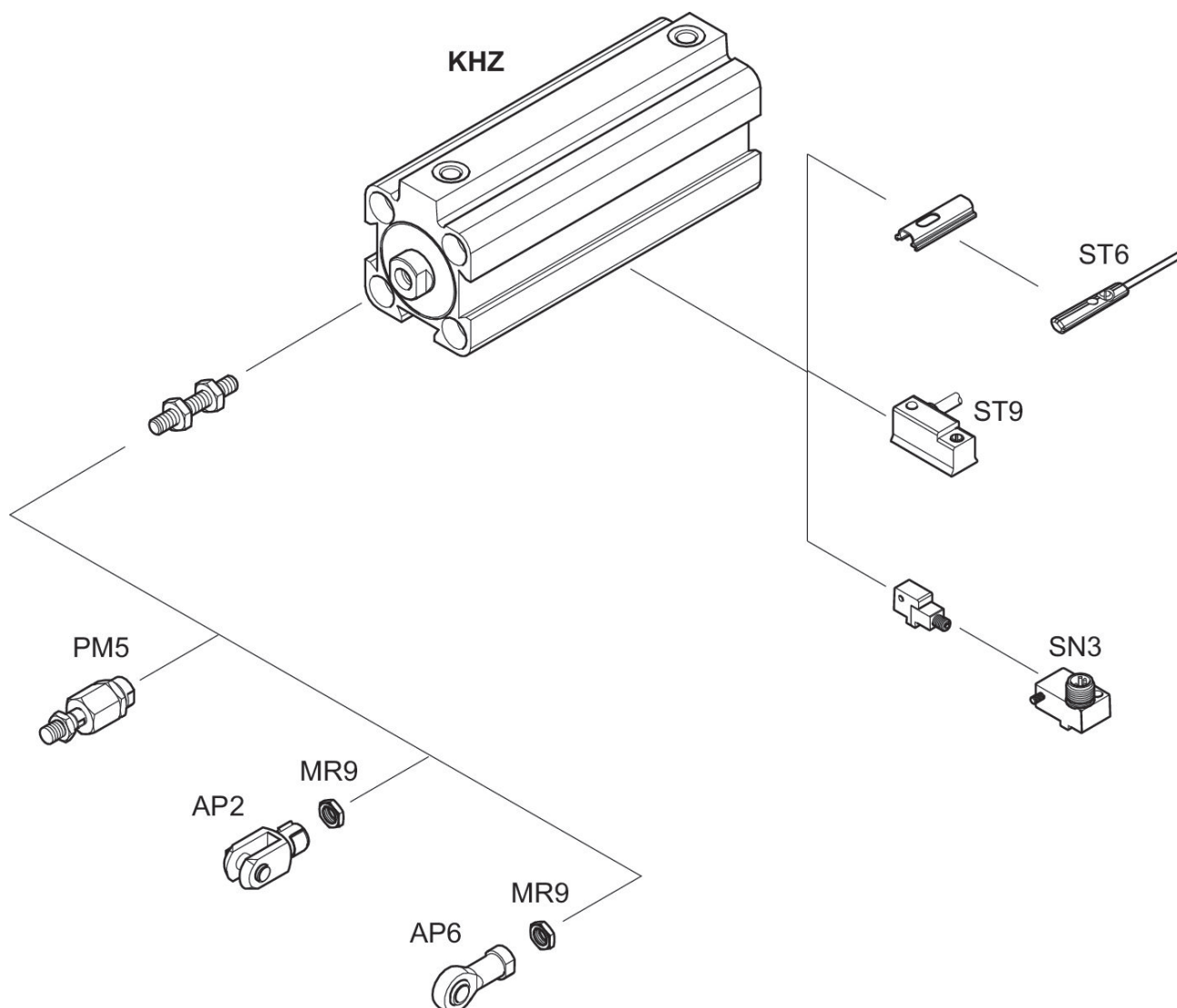
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Overview drawing



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.