

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	100 mm
Stroke	10 mm
Ports	G 1/4
Functional principle	Single-acting, retracted without pressure
Cushioning	elastic cushioning
Magnetic piston	Piston with magnet
Environmental requirements	Industry standard
Piston rod thread - type	Internal thread
Piston rod thread	M12
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Retracting piston force	95.5 N
Extracting piston force	4948 N
Min. ambient temperature	-25 °C
Max. ambient temperature	80 °C
Min. working pressure	1 bar
Max. working pressure	10 bar
Weight	2.3 kg
Medium	Compressed air
Min. medium temperature	-25 °C

Short-stroke cylinder, Series KHZ

0822406491

Series KHZ

2025-07-17

Max. medium temperature	80 °C
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	Aluminum
Cylinder tube	Aluminum
End cover	Aluminum
Part No.	0822406491

Technical information

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>).

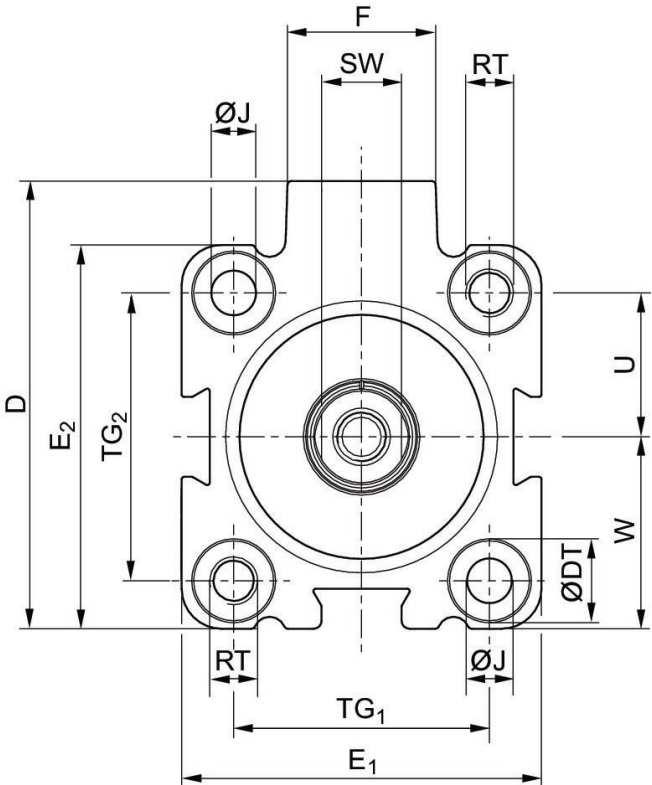
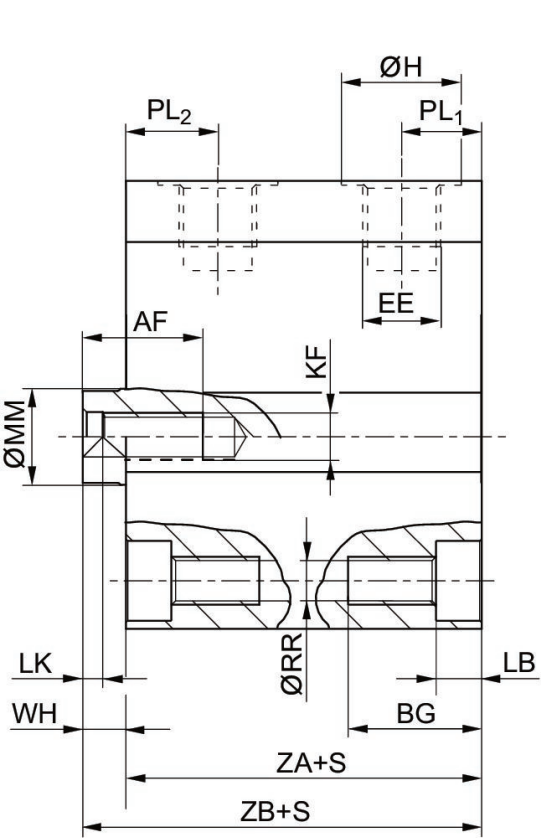
Short-stroke cylinder, Series KHZ

0822406491

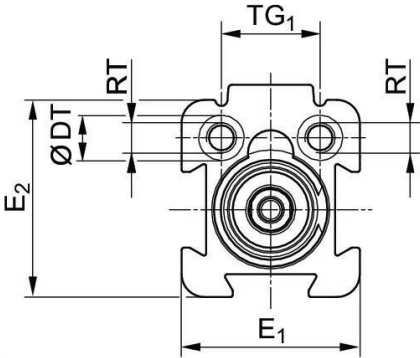
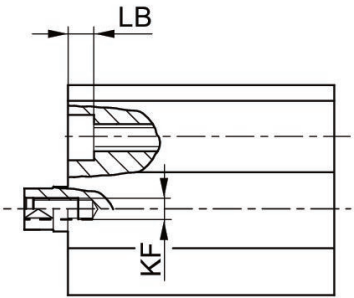
Series KHZ

2025-07-17

Dimensions



$\varnothing 16\text{-}\varnothing 100$



$\varnothing 12$

S = stroke

Short-stroke cylinder, Series KHZ

0822406491

Series KHZ

2025-07-17

Part No.	Piston Ø	S	AF +1	BG min.	D JS15	ØDT H13	E1 JS15	E2 JS15	EE	F
0822406400	12	4	8	12.4	28	6	23.5	26	M 5	11
0822406401	12	10	8	12.4	28	6	23.5	26	M 5	11
0822406410	16	4	10	12.4	33	6	28	28	M 5	11.5
0822406411	16	10	10	12.4	33	6	28	28	M 5	11.5
0822406412	16	25	10	17.5	33	6	28	28	M 5	11.5
0822406420	20	4	10	13.6	37	7.5	32	32	M 5	11
0822406421	20	10	10	13.6	37	7.5	32	32	M 5	11
0822406422	20	25	10	13.6	37	7.5	32	32	M 5	11
0822406430	25	5	10	13.6	47.5	8	37	39	G 1/8	17.5
0822406431	25	10	10	13.6	47.5	8	37	39	G 1/8	17.5
0822406432	25	25	10	13.6	47.5	8	37	39	G 1/8	17.5
0822406440	32	5	15	16.7	56	10	45	48	G 1/8	18.5
0822406441	32	10	15	16.7	56	10	45	48	G 1/8	18.5
0822406442	32	25	15	16.7	56	10	45	48	G 1/8	18.5
0822406450	40	5	15	16.7	62.5	10	54.5	54.5	G 1/8	18.5
0822406451	40	10	15	16.7	62.5	10	54.5	54.5	G 1/8	18.5
0822406452	40	25	15	16.7	62.5	10	54.5	54.5	G 1/8	18.5
0822406461	50	10	18	19.8	73	11	66	66	G 1/8	18
0822406462	50	25	18	19.8	73	11	66	66	G 1/8	18
0822406471	63	10	18	25	88	15	80	80	G 1/8	23
0822406472	63	25	18	25	88	15	80	80	G 1/8	23
0822406481	80	10	18	25	110	15	100	100	G 1/4	27
0822406482	80	25	18	25	110	15	100	100	G 1/4	27
0822406491	100	10	20	30	132	17.5	124	124	G 1/4	28
0822406492	100	25	20	30	132	17.5	124	124	G 1/4	28

Short-stroke cylinder, Series KHZ

0822406491

Series KHZ

2025-07-17

Part No.	Piston Ø	ØH	ØJ H14	KF	LB +0,4	LK +0,5	ØMM f8	PL1	PL2	ØRR
0822406400	12	8	—	M 3	3.4	2	6	6	10.5	3.3
0822406401	12	8	—	M 3	3.4	2	6	6	10.5	3.3
0822406410	16	8	3.55	M 5	3.4	2	8	6.5	12.5	3.3
0822406411	16	8	3.55	M 5	3.4	2	8	6.5	12.5	3.3
0822406412	16	8	3.55	M 5	8.5	2	8	6.5	12.5	3.3
0822406420	20	8	4.55	M 5	4.6	2	10	6.5	12	4.2
0822406421	20	8	4.55	M 5	4.6	2	10	6.5	12	4.2
0822406422	20	8	4.55	M 5	4.6	2	10	6.5	12	4.2
0822406430	25	15	4.55	M 5	4.6	2	10	9.5	11.5	4.2
0822406431	25	15	4.55	M 5	4.6	2	10	9.5	11.5	4.2
0822406432	25	15	4.55	M 5	4.6	2	10	9.5	11.5	4.2
0822406440	32	15	5.5	M 6	5.7	2.5	12	10	11.5	5.05
0822406441	32	15	5.5	M 6	5.7	2.5	12	10	11.5	5.05
0822406442	32	15	5.5	M 6	5.7	2.5	12	10	11.5	5.05
0822406450	40	15	5.5	M 6	5.7	2.5	12	10	13.5	5.05
0822406451	40	15	5.5	M 6	5.7	2.5	12	10	13.5	5.05
0822406452	40	15	5.5	M 6	5.7	2.5	12	10	13.5	5.05
0822406461	50	15	7.3	M 8	6.8	3.5	16	10	14	6.8
0822406462	50	15	7.3	M 8	6.8	3.5	16	10	14	6.8
0822406471	63	15	9.2	M 8	9	3.5	16	11.5	14	8.5
0822406472	63	15	9.2	M 8	9	3.5	16	11.5	14	8.5
0822406481	80	19	9.2	M 10	9	4	20	12	18	8.5
0822406482	80	19	9.2	M 10	9	4	20	12	18	8.5
0822406491	100	19	11	M 12	11	4	25	12	20.5	10.2
0822406492	100	19	11	M 12	11	4	25	12	20.5	10.2

Short-stroke cylinder, Series KHZ

0822406491

Series KHZ

2025-07-17

Part No.	Piston Ø	RT	SW -0,3	TG1	TG2 ±0,2	U	W	WH	ZA ±0,2	ZB ±0,8
0822406400	12	M 4	5	13 ±0,2	—	9.5	11,5 ±0,2	4.5	30.5	35
0822406401	12	M 4	5	13 ±0,2	—	9.5	11,5 ±0,2	4.5	30.5	35
0822406410	16	M 4	7	20 ±0,2	20 ±0,2	10	14 ±0,2	3	32	35
0822406411	16	M 4	7	20 ±0,2	20 ±0,2	10	14 ±0,2	3	32	35
0822406412	16	M 4	7	20 ±0,2	20 ±0,2	10	14 ±0,2	4	38	42
0822406420	20	M 5	8	22 ±0,2	22 ±0,2	11	16 ±0,2	4.5	32	36.5
0822406421	20	M 5	8	22 ±0,2	22 ±0,2	11	16 ±0,2	4.5	32	36.5
0822406422	20	M 5	8	22 ±0,2	22 ±0,2	11	16 ±0,2	4.5	38	42.5
0822406430	25	M 5	8	26 ±0,25	28 ±0,25	14	19,5 ±0,2	5	39	44
0822406431	25	M 5	8	26 ±0,25	28 ±0,25	14	19,5 ±0,2	5	39	44
0822406432	25	M 5	8	26 ±0,25	28 ±0,25	14	19,5 ±0,2	5	39	44
0822406440	32	M 6	10	32 ±0,25	36 ±0,25	18	24 ±0,2	5.5	39.5	45
0822406441	32	M 6	10	32 ±0,25	36 ±0,25	18	24 ±0,2	5.5	39.5	45
0822406442	32	M 6	10	32 ±0,25	36 ±0,25	18	24 ±0,2	5.5	39.5	45
0822406450	40	M 6	10	40 ±0,25	40 ±0,25	20	27,3 ±0,2	7	39.5	46.5
0822406451	40	M 6	10	40 ±0,25	40 ±0,25	20	27,3 ±0,2	7	39.5	46.5
0822406452	40	M 6	10	40 ±0,25	40 ±0,25	20	27,3 ±0,2	7	39.5	46.5
0822406461	50	M 8	13	50 ±0,25	50 ±0,25	25	33 ±0,2	7.5	39.5	47
0822406462	50	M 8	13	50 ±0,25	50 ±0,25	25	33 ±0,2	7.5	39.5	47
0822406471	63	M 10	13	62 ±0,25	62 ±0,25	31	40 ±0,2	6.5	42	48.5
0822406472	63	M 10	13	62 ±0,25	62 ±0,25	31	40 ±0,2	6.5	42	48.5
0822406481	80	M 10	17	82 ±0,3	82 ±0,3	41	50 ±0,3	8	46	54
0822406482	80	M 10	17	82 ±0,3	82 ±0,3	41	50 ±0,3	8	46	54
0822406491	100	M 12	22	103 ±0,3	103 ±0,3	51.5	62 ±0,3	10	56	66
0822406492	100	M 12	22	103 ±0,3	103 ±0,3	51.5	62 ±0,3	10	56	66

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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.