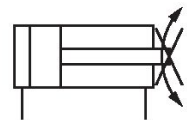
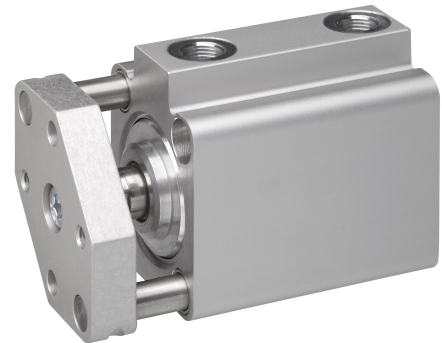


AVENTICS Series KHZ Short-stroke cylinders

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	20 mm
Stroke	10 mm
Ports	M5
Functional principle	Double-acting
Cushioning	elastic cushioning
Magnetic piston	Piston without magnet
Environmental requirements	Industry standard
Piston rod thread - type	Internal thread
Piston rod	non-rotating
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Retracting piston force	148 N
Extracting piston force	198 N
Min. ambient temperature	-25 °C
Max. ambient temperature	80 °C
Min. working pressure	1 bar
Max. working pressure	10 bar
Impact energy	0.08 J
Weight 0 mm stroke	0.092 kg
Weight +10 mm stroke	0.024 kg
Medium	Compressed air
Min. medium temperature	-25 °C
Max. medium temperature	80 °C

Short-stroke cylinder, Series KHZ

0822010721

Series KHZ

2025-07-17

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
Scraper material	Polyurethane
Material, front cover	Brass
Cylinder tube	Aluminum
End cover	Aluminum
Part No.	0822010721

Technical information

Other versions can be ordered from AVENTICS sales offices.

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>).

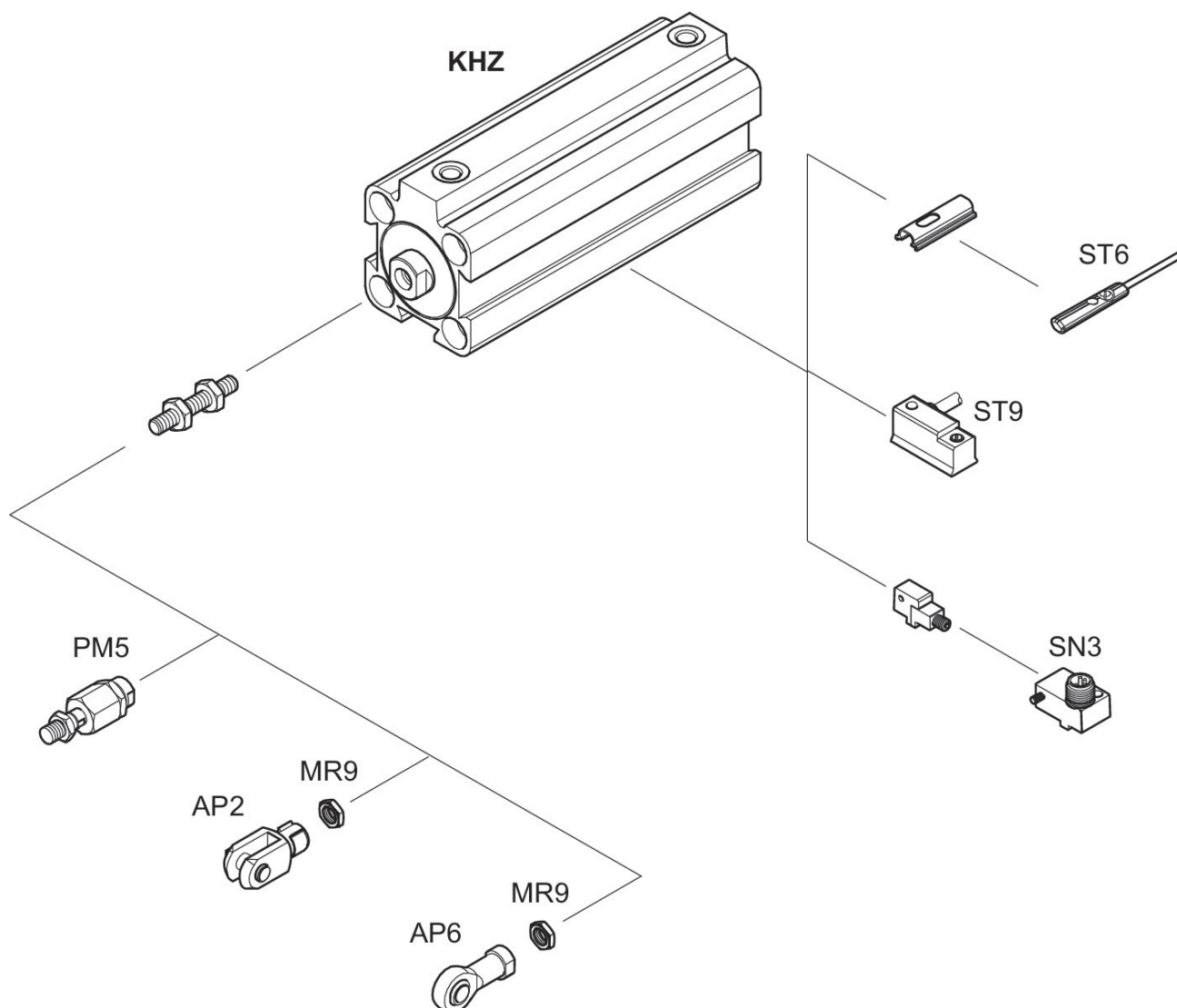
Short-stroke cylinder, Series KHZ

0822010721

Series KHZ

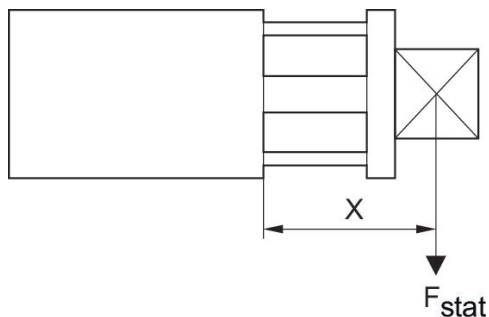
2025-07-17

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.

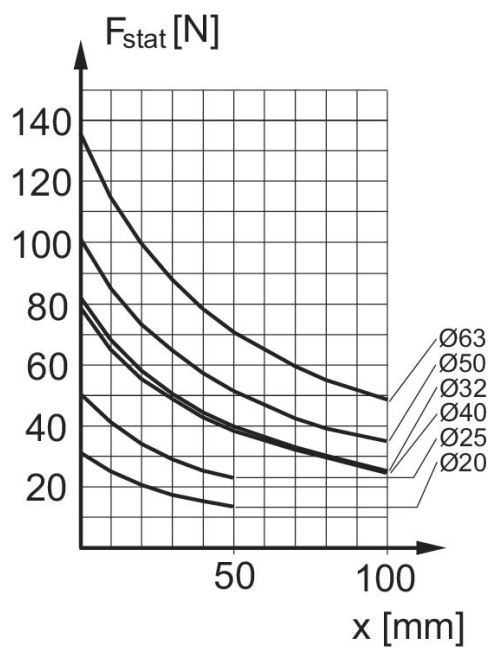
Maximum admissible lateral force static



F_{stat} = static lateral force

X = distance between force application point and cylinder cover

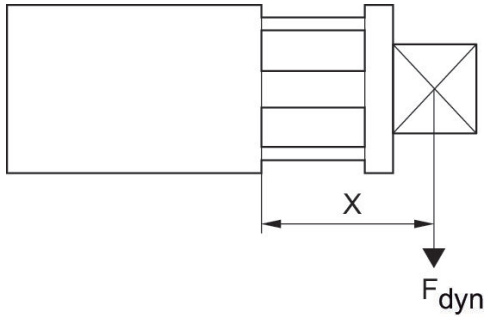
Maximum admissible lateral force static



F_{stat} = static lateral force

X = distance between force application point and cylinder cover

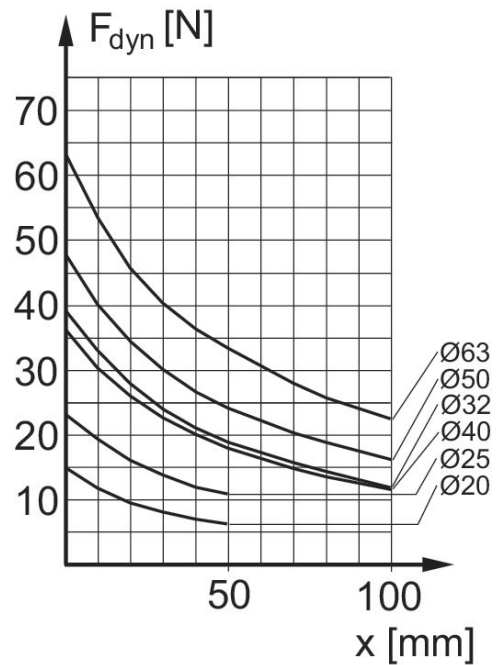
Maximum admissible lateral force dynamic



F_{dyn} = dynamic lateral force

X = distance between force application point and cylinder cover

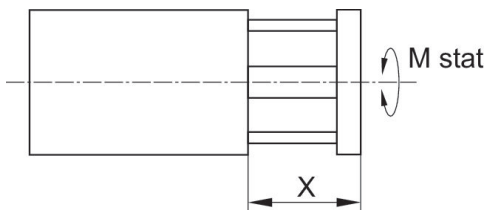
Maximum admissible lateral force dynamic



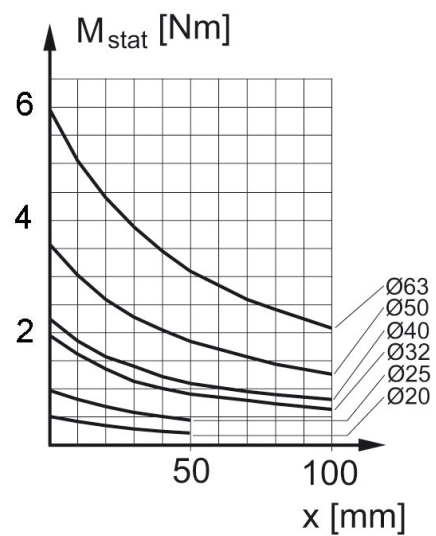
F_{dyn} = dynamic lateral force

X = distance between force application point and cylinder cover

Max. permissible torque static

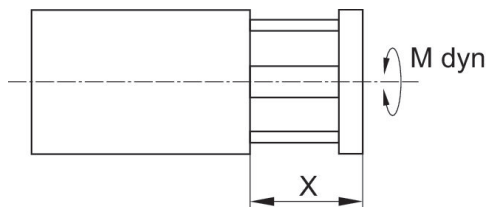


Max. permissible torque static

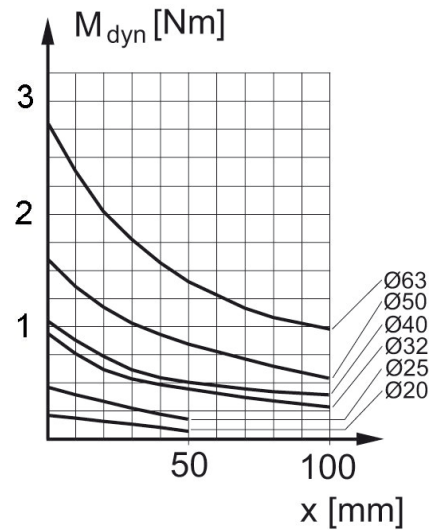


X = distance between force application point and cylinder cover

Max. permissible torque dynamic

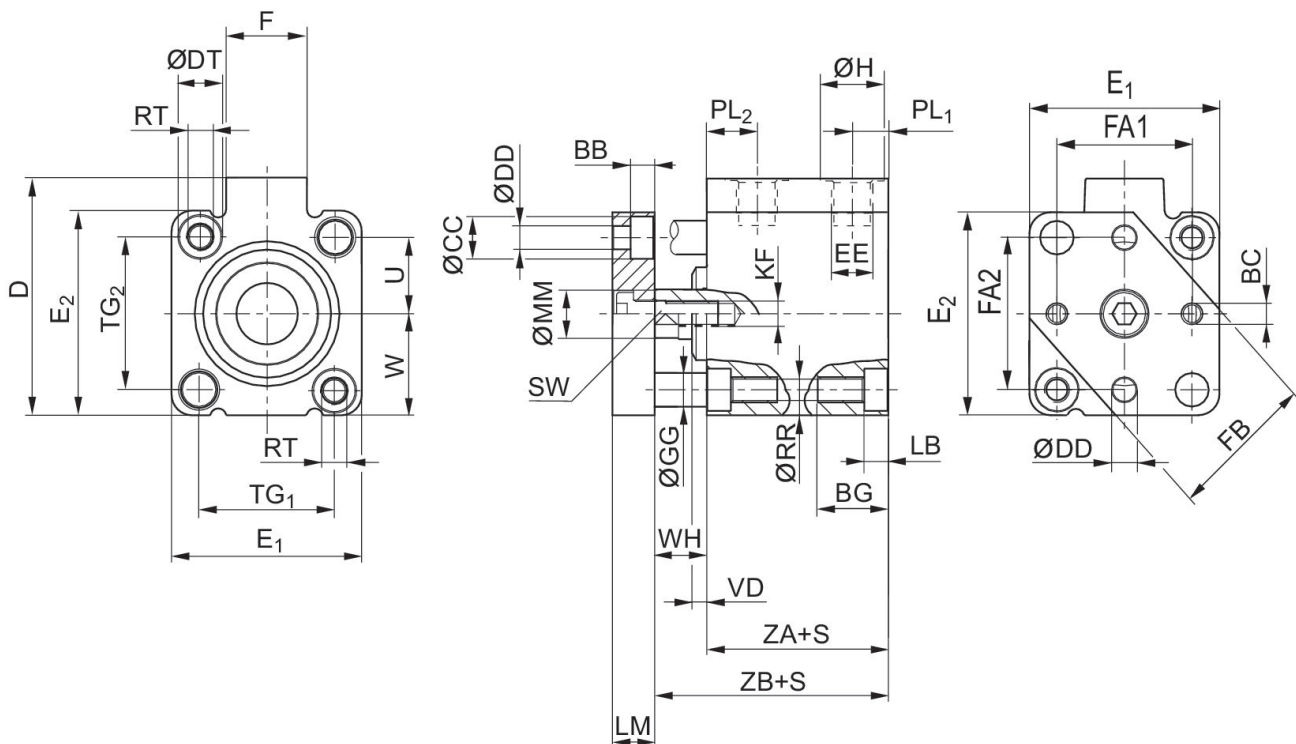


Max. permissible torque, Dynamic



X = distance between force application point and cylinder cover

Dimensions



Short-stroke cylinder, Series KHZ

0822010721

Series KHZ

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Piston Ø	Stroke	BB	BC	BG min.	ØCC	D JS15	ØDD	ØDT H13	E1 JS15	E2 JS15
20	10 - 50	5	M 4	13.6	7.5	37	4.5	7.5	32	32
25	10 - 50	5	M 4	13.6	8	47.5	4.5	8	37	39
32	10 - 50	5,7	M 5	16.7	10	56	5.5	10	45	48
40	10 - 50	5,7	M 5	16.7	10	62.5	5.5	10	54.5	54.5
50	10 - 50	6,8	M 6	19.8	11	72	6.5	11	64	64
63	10 - 50	9	M 6	25	14	88	9	15	80	80

Piston Ø	EE	F	FB	ØGG -0,005/-0,025	ØH	KF	LB +0,4	LM	ØMM f8	PL1
20	M 5	11	25	5	8	M 5	4.6	8	10	5
25	G 1/8	17,5	30	6	15	M 5	4.6	8	10	9
32	G 1/8	18.5	35	8	15	M 6	5.7	10	12	8.5
40	G 1/8	18.5	40	8	15	M 6	5.7	10	12	9
50	G 1/8	18	50	10	15	M 8	6.8	12	16	8,5
63	G 1/8	23	60	12	15	M 8	9	12	16	8,5

Piston Ø	PL2	ØRR	RT	SW -0,3	TG1	TG2	U	W	VD -1	WH
20	8	4.2	M 5	8	22 ±0,2	22 ±0,2	11	16 ±0,2	—	9,5
25	11	4.2	M 5	8	26 ±0,25	28 ±0,25	14	19,5 ±0,2	3.5	11,5
32	12	5.05	M 6	10	32 ±0,25	36 ±0,25	18	24 ±0,2	3.5	12,5
40	11	5.05	M 6	10	40 ±0,25	40 ±0,25	20	27,3 ±0,2	4.5	15
50	11	6.8	M 8	13	50 ±0,25	50 ±0,25	25	32 ±0,2	6	17
63	12,5	8.5	M 10	13	62 ±0,25	62 ±0,25	31	40 ±0,2	6.5	17

Piston Ø	FA1 ±0,1	FA2 ±0,1	ZA ±0,2	ZB ±0,8
20	22	22	24.5	34
25	26	28	31	42.5
32	32	36	33	45.5
40	40	40	33	48
50	50	50	32.5	49.5
63	62	62	35.5	52.5