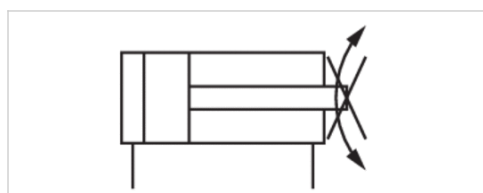


Short-stroke cylinder, Series KHZ

- Ø 20-63 mm
- Ports M5 G 1/8
- double-acting
- Cushioning elastic
- Piston rod Internal thread
- Piston rod non-rotating



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

Technical data

Piston Ø	20 mm	25 mm	32 mm	40 mm	50 mm	63 mm
Stroke 10	0822010721	0822010731	0822010741	0822010751	0822010761	0822010771
15	0822010722	0822010732	0822010742	0822010752	0822010762	0822010772
20	0822010723	0822010733	0822010743	0822010753	0822010763	0822010773
25	0822010724	0822010734	0822010744	0822010754	0822010764	0822010774
30	0822010725	0822010735	0822010745	0822010755	0822010765	0822010775
40	0822010726	0822010736	0822010746	0822010756	0822010766	0822010776
50	0822010727	0822010737	0822010747	0822010757	0822010767	0822010777

Technical data

Piston Ø	20 mm	25 mm	32 mm	40 mm
Retracting piston force	148 N	260 N	435 N	720 N
Extracting piston force	198 N	309 N	507 N	792 N
Impact energy	0,08 J	0,1 J	0,16 J	0,24 J
Weight 0 mm stroke	0,092 kg	0,178 kg	0,195 kg	0,285 kg
Weight +10 mm stroke	0,024 kg	0,034 kg	0,05 kg	0,06 kg
Working pressure min./max.	1 ... 10 bar	1 ... 10 bar	0,6 ... 10 bar	0,6 ... 10 bar
Material, front cover	Brass	Brass	Aluminum	Aluminum

Piston Ø	50 mm	63 mm
Retracting piston force	1110 N	1837 N
Extracting piston force	1237 N	1964 N
Impact energy	0,32 J	0,38 J
Weight 0 mm stroke	0,388 kg	0,636 kg
Weight +10 mm stroke	0,086 kg	0,114 kg
Working pressure min./max.	0,6 ... 10 bar	0,6 ... 10 bar
Material, front cover	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).

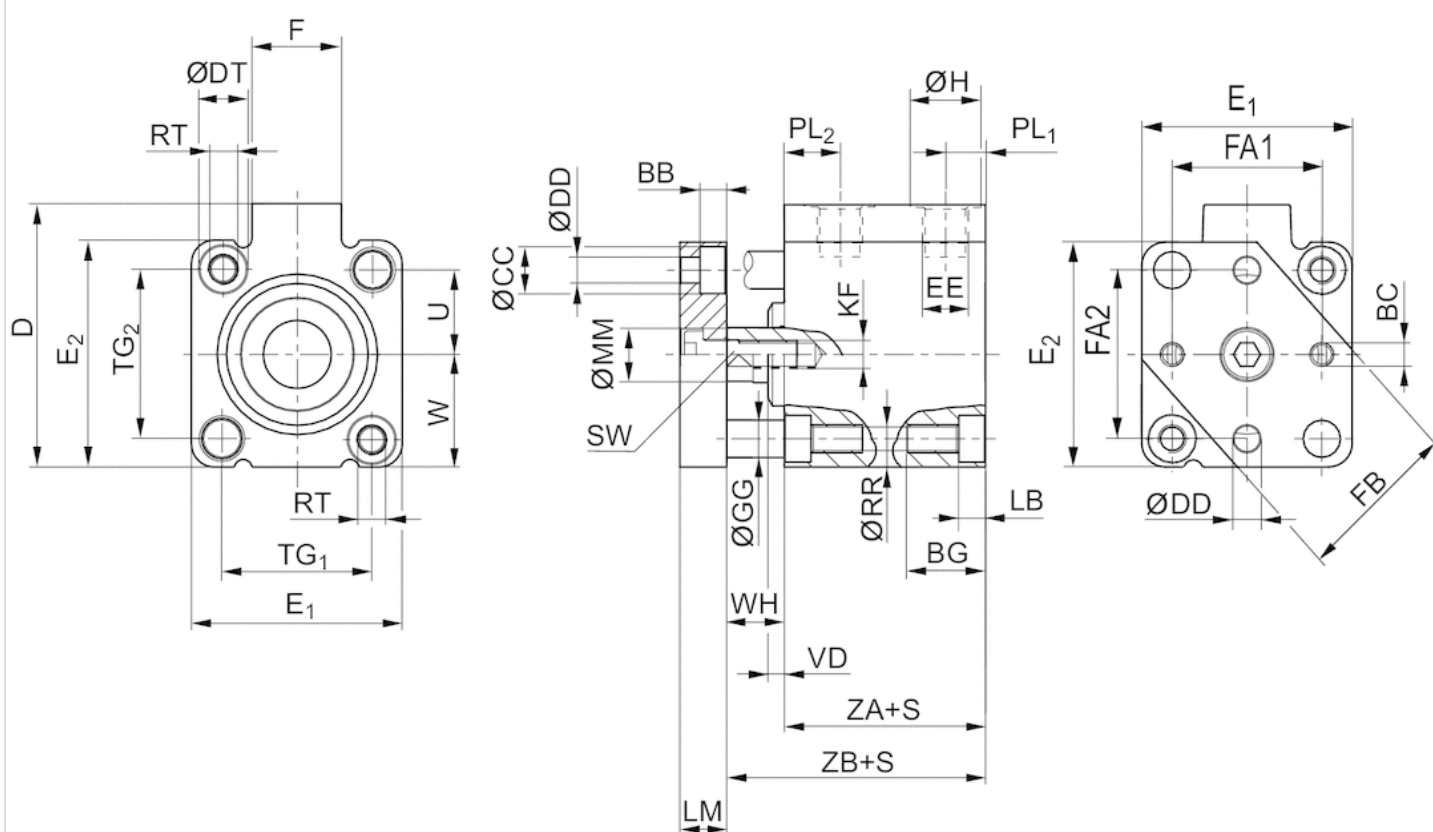
Other versions can be ordered from AVENTICS sales offices.

Technical information

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

Dimensions

Dimensions



Dimensions

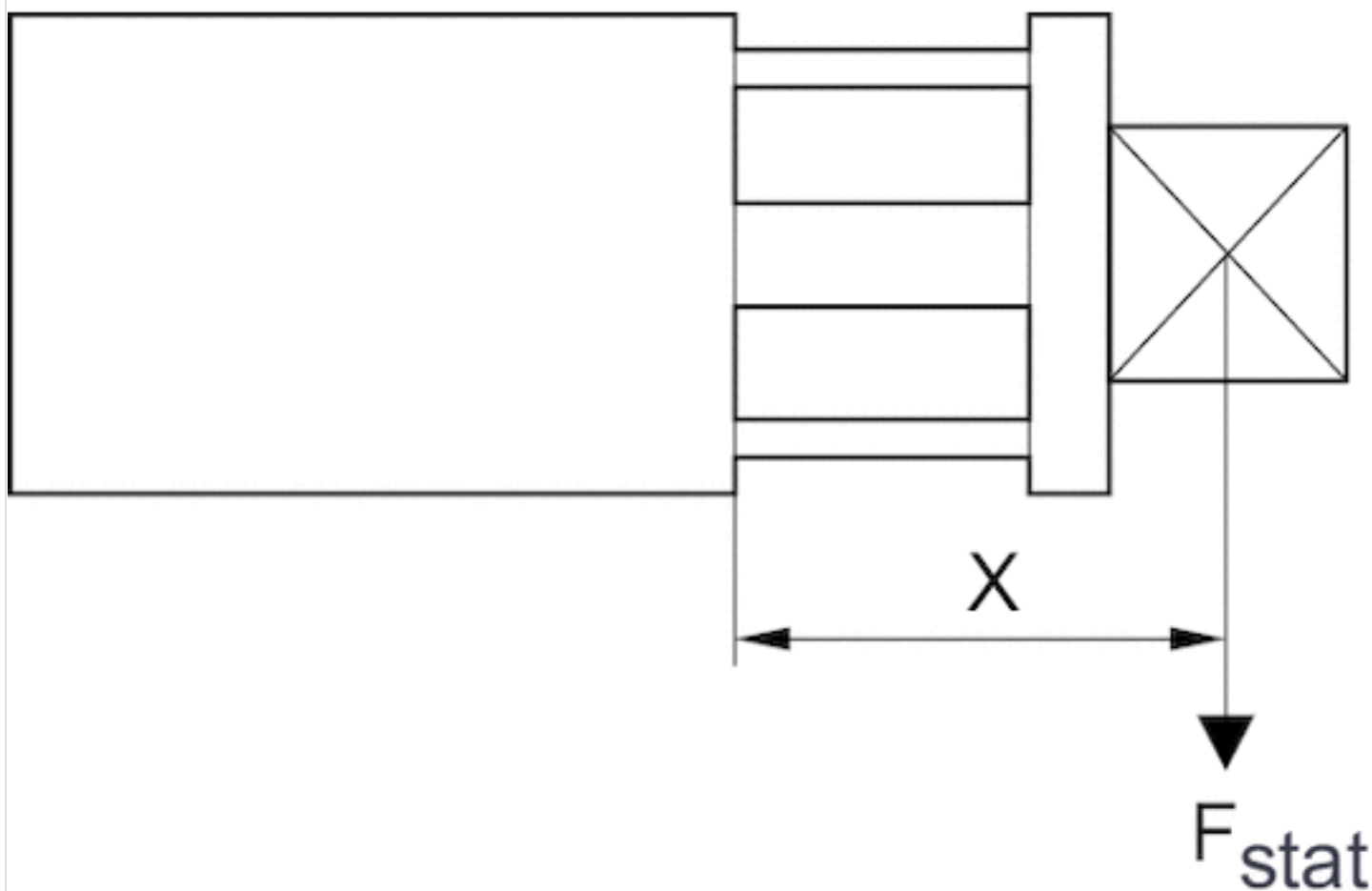
Piston Ø	Stroke	BB	BC	BG min.	ØCC	D JS15	ØDD	ØDT H13	E1 JS15	E2 JS15	EE	F
20 mm	10 - 50	5	M 4	13.6	7.5	37	4.5	7.5	32	32	M 5	11
25 mm	10 - 50	5	M 4	13.6	8	47.5	4.5	8	37	39	G 1/8	17,5
32 mm	10 - 50	5,7	M 5	16.7	10	56	5.5	10	45	48	G 1/8	18.5
40 mm	10 - 50	5,7	M 5	16.7	10	62.5	5.5	10	54.5	54.5	G 1/8	18.5
50 mm	10 - 50	6,8	M 6	19.8	11	72	6.5	11	64	64	G 1/8	18
63 mm	10 - 50	9	M 6	25	14	88	9	15	80	80	G 1/8	23

Piston Ø	FB	ØGG -0,005/-0,025	ØH	KF	LB +0,4	LM	ØMM f8	PL1	PL2	ØRR	RT	SW -0,3
20 mm	25	5	8	M 5	4.6	8	10	5	8	4.2	M 5	8
25 mm	30	6	15	M 5	4.6	8	10	9	11	4.2	M 5	8
32 mm	35	8	15	M 6	5.7	10	12	8.5	12	5.05	M 6	10
40 mm	40	8	15	M 6	5.7	10	12	9	11	5.05	M 6	10
50 mm	50	10	15	M 8	6.8	12	16	8,5	11	6.8	M 8	13
63 mm	60	12	15	M 8	9	12	16	8,5	12,5	8.5	M 10	13

Piston Ø	TG1	TG2	U	W	VD -1	WH	FA1 ±0,1	FA2 ±0,1	ZA ±0,2	ZB ±0,8
20 mm	22 ±0,2	22 ±0,2	11	16 ±0,2	–	9,5	22	22	24.5	34
25 mm	26 ±0,25	28 ±0,25	14	19,5 ±0,2	3.5	11,5	26	28	31	42.5
32 mm	32 ±0,25	36 ±0,25	18	24 ±0,2	3.5	12,5	32	36	33	45.5
40 mm	40 ±0,25	40 ±0,25	20	27,3 ±0,2	4.5	15	40	40	33	48
50 mm	50 ±0,25	50 ±0,25	25	32 ±0,2	6	17	50	50	32.5	49.5
63 mm	62 ±0,25	62 ±0,25	31	40 ±0,2	6.5	17	62	62	35.5	52.5

Diagrams

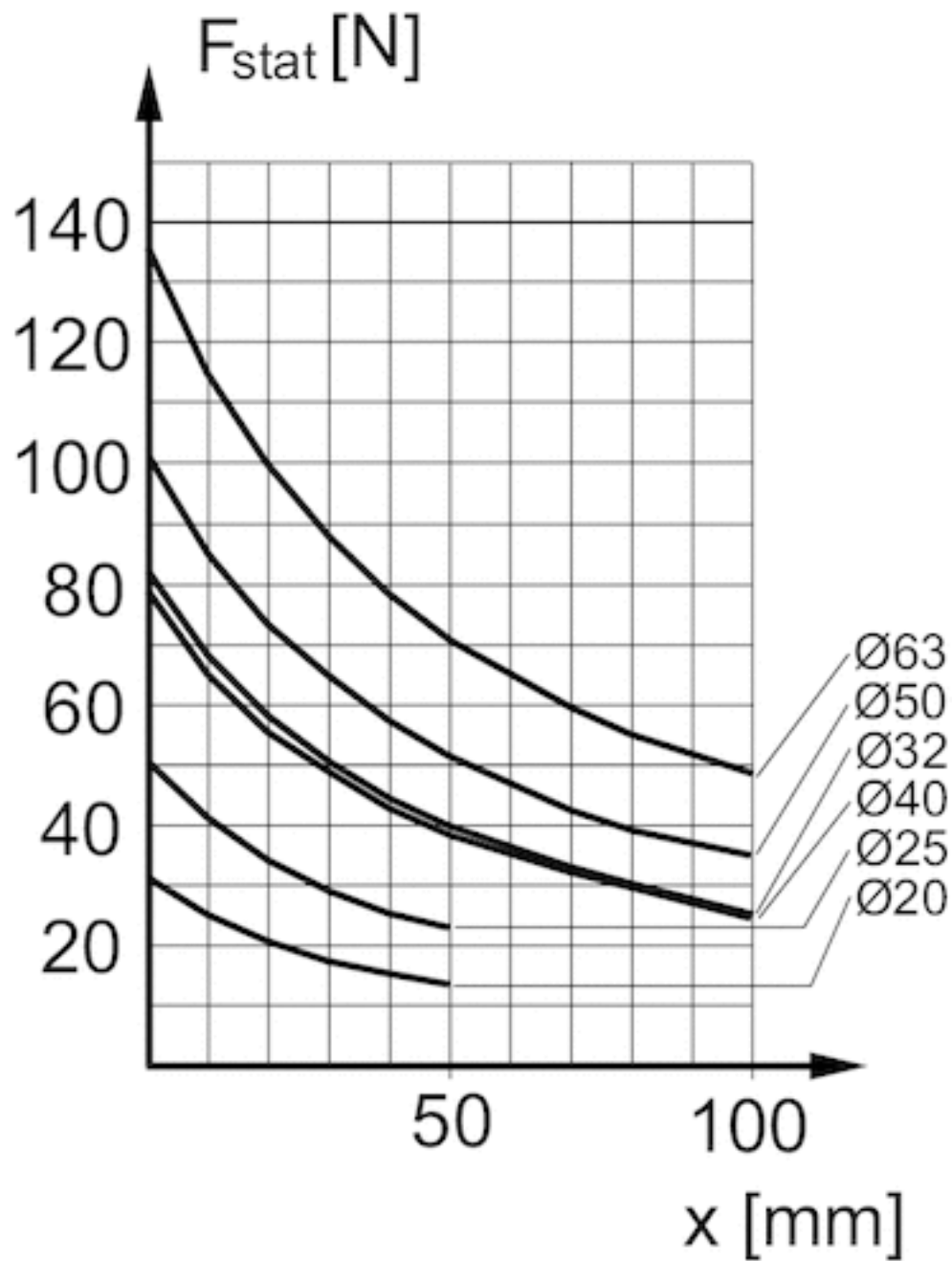
Maximum admissible lateral force, static



F_{stat} = static lateral force

X = distance between force application point and cylinder cover

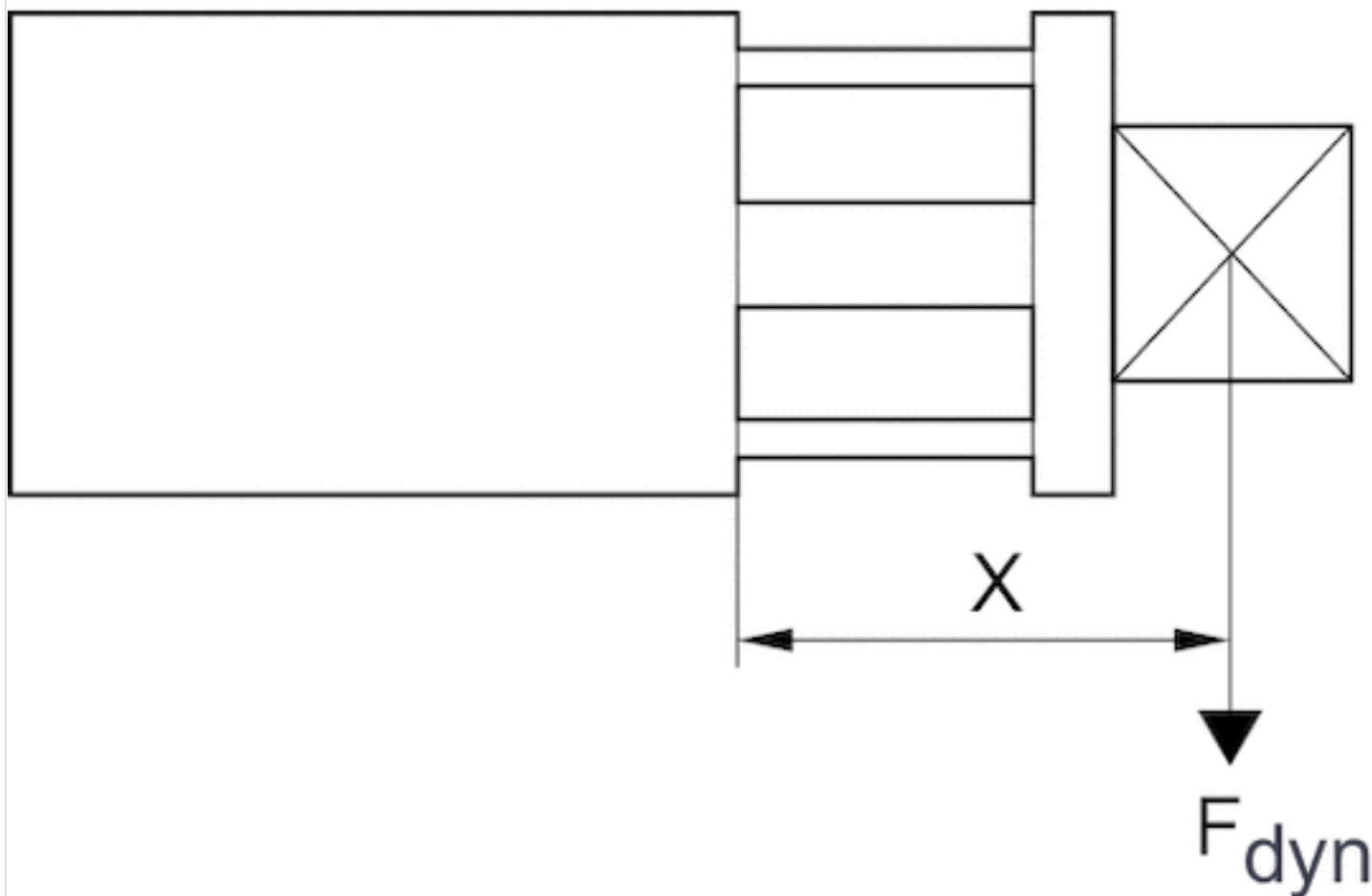
Maximum admissible lateral force, static



F_{stat} = static lateral force

x = distance between force application point and cylinder cover

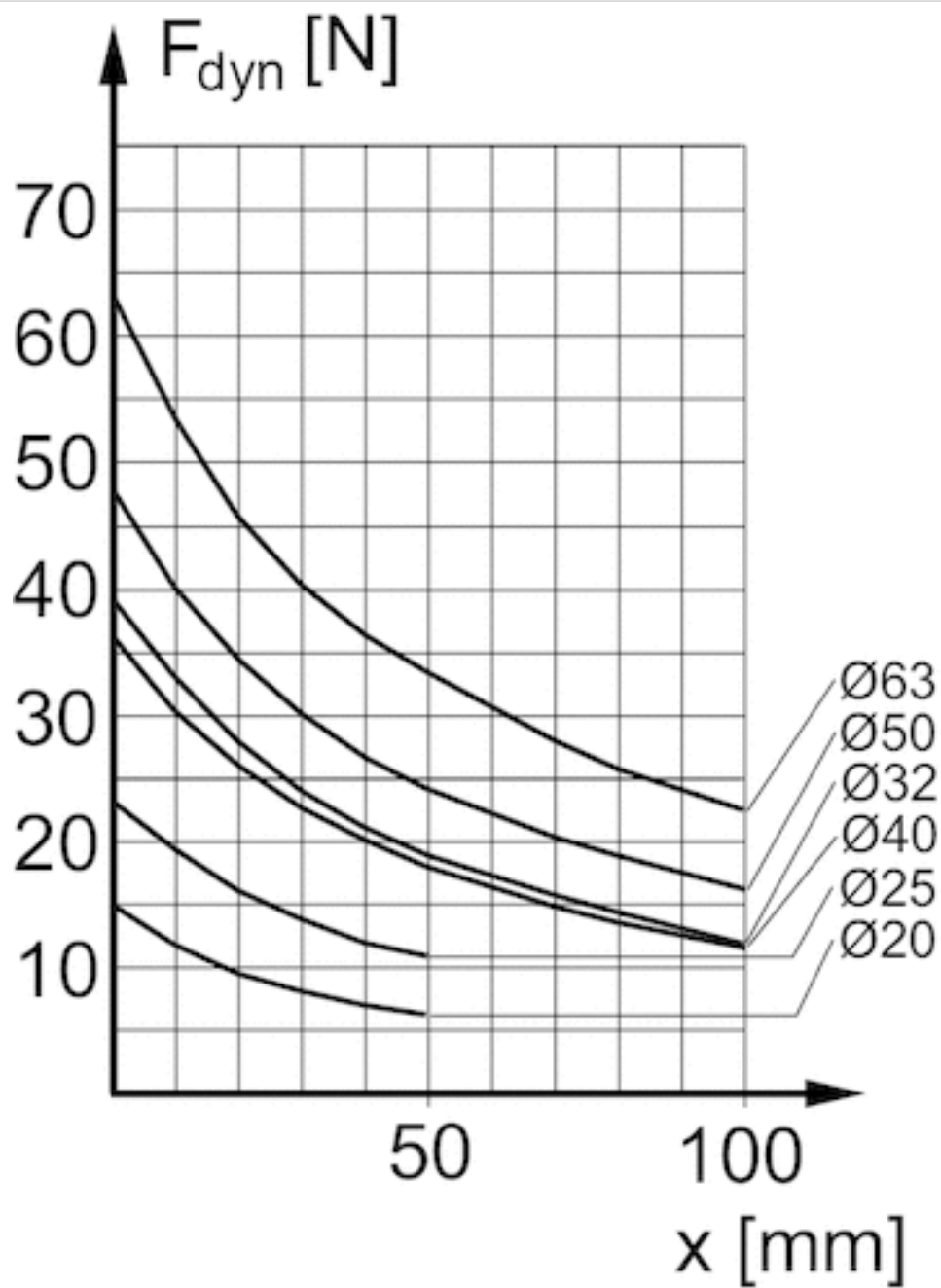
Maximum admissible lateral force, dynamic



F_{dyn} = dynamic lateral force

X = distance between force application point and cylinder cover

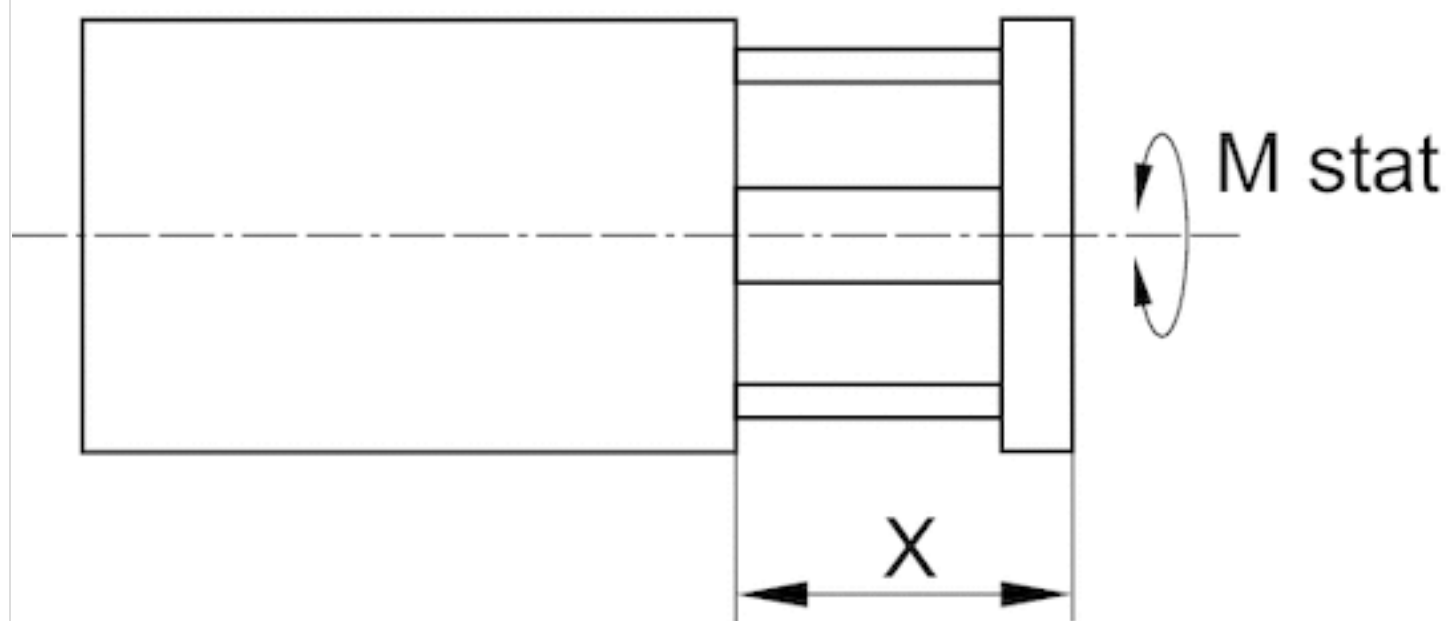
Maximum admissible lateral force, dynamic



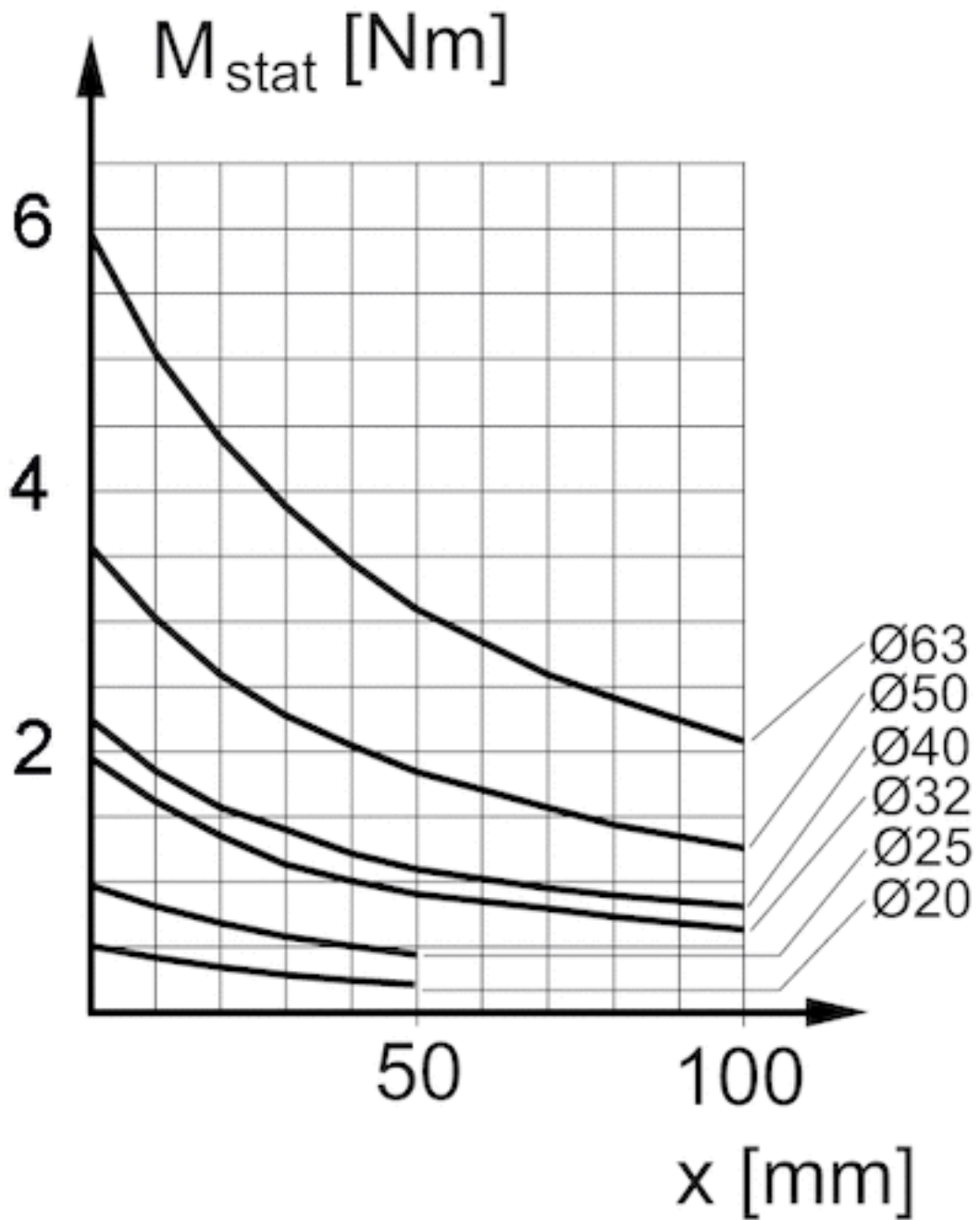
F_{dyn} = dynamic lateral force

x = distance between force application point and cylinder cover

Max. permissible torque, static

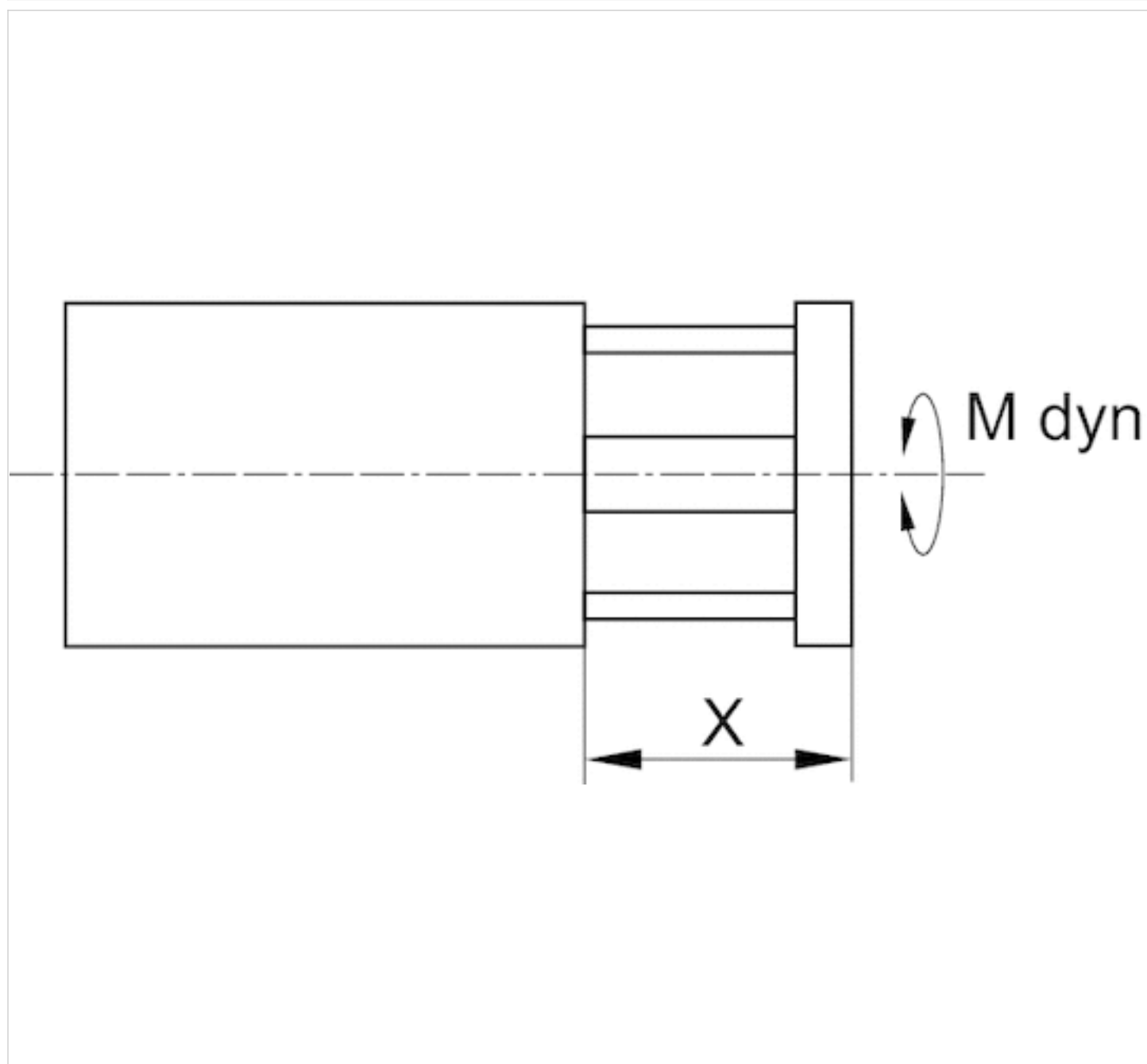


Max. permissible torque, static

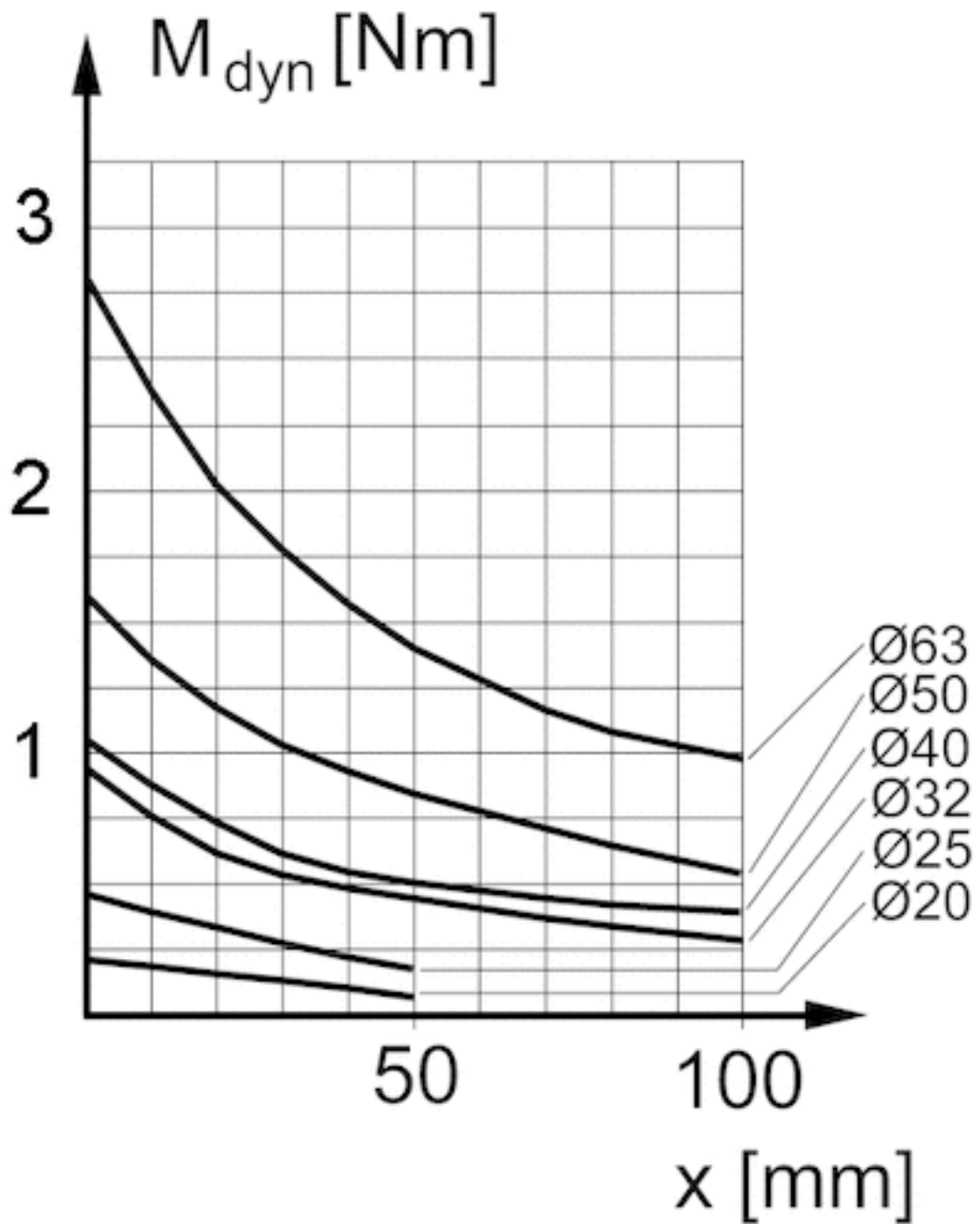


X = distance between force application point and cylinder cover

Max. permissible torque, dynamic



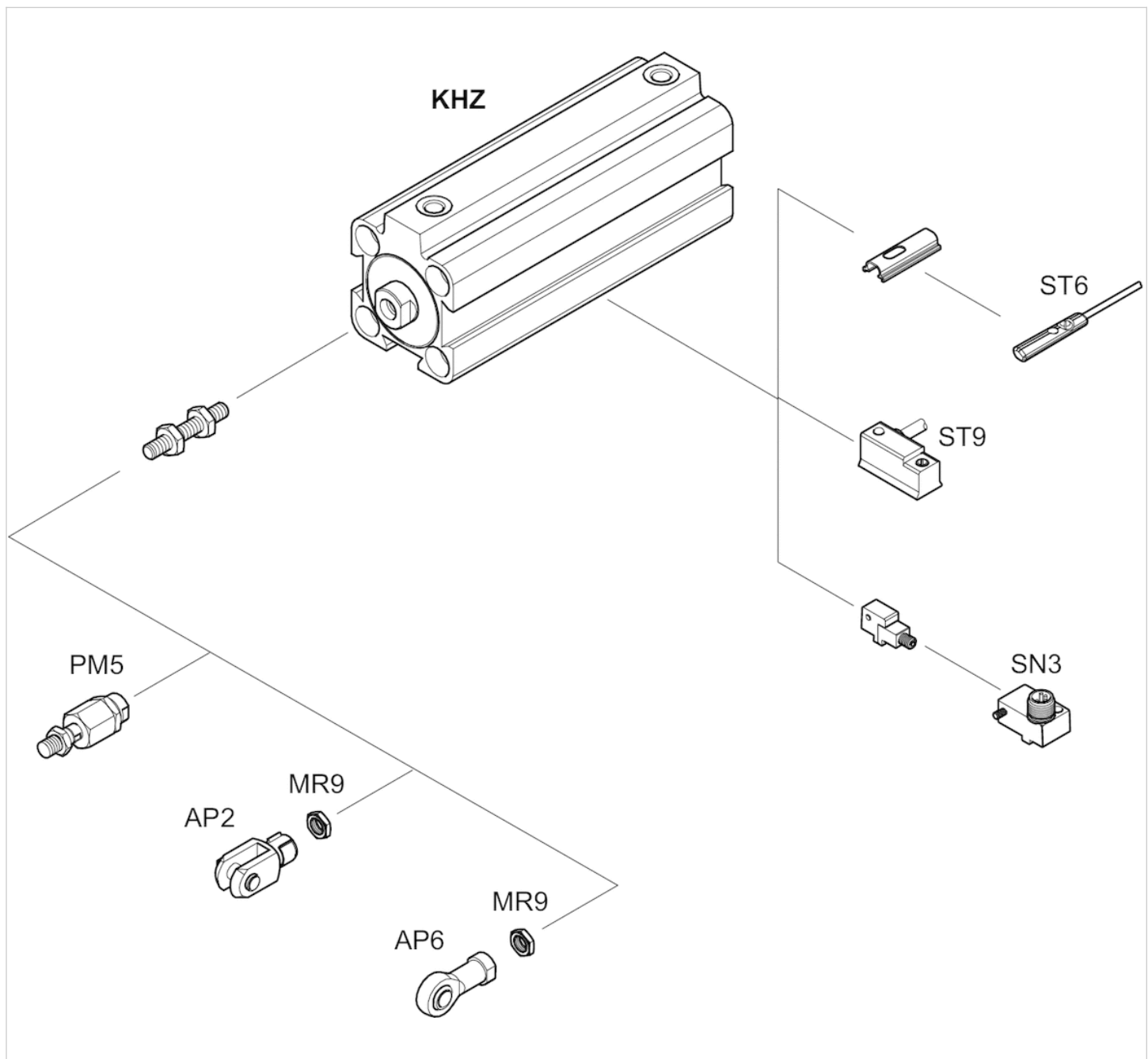
Max. permissible torque, Dynamic



X = distance between force application point and cylinder cover

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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