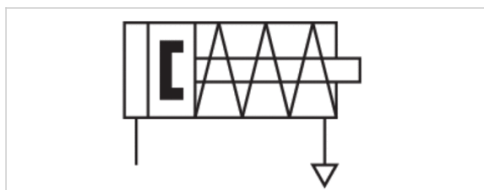


Short-stroke cylinder, Series SSI

- ISO 15524
- Ø 12-63 mm
- Ports M5 G 1/8 G 1/4
- Single-acting, retracted without pressure
- with magnetic piston
- Cushioning elastic
- Piston rod Internal thread



Standards	ISO 15524
Compressed air connection	Internal thread
Ambient temperature min./max.	-20 ... 80 °C
Medium temperature min./max.	-20 ... 80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Pressure for determining piston forces	6.3 bar



Technical data

Piston Ø Piston rod thread Ports Piston rod Ø	12 mm M3 M5 6 mm	16 mm M4 M5 8 mm	20 mm M5 M5 10 mm	25 mm M6 M5 12 mm	32 mm M8 G 1/8 16 mm	40 mm M8 G 1/8 16 mm
Stroke 5	R480637920	R480637922	R480637924	R480637927	R480637930	R480637933
10	R480637921	R480637923	R480637925	R480637928	R480637931	R480637934
25	-	-	R480637926	R480637929	R480637932	R480637935

Piston Ø Piston rod thread Ports Piston rod Ø	50 mm M10 G 1/4 20 mm	63 mm M10 G 1/4 20 mm
Stroke 5	-	-
10	R480637936	R480637938
25	R480637937	R480637939

Technical data

Piston Ø	12 mm	16 mm
Retracting piston force	6,8 N	8 N
Extracting piston force	71 N	127 N
Impact energy	0,02 J	0,03 J
Weight 0 mm stroke	0,039 kg	0,061 kg
Weight +10 mm stroke	0,012 kg	0,017 kg
Working pressure min./max.	1,7 ... 10 bar	1,5 ... 10 bar
Material, front cover	Brass	Aluminum
Sealing material	Nitrile butadiene rubber	Nitrile butadiene rubber
Stroke max.	10 mm	10 mm

Piston Ø	20 mm	25 mm
Retracting piston force	6,5 N	15,5 N
Extracting piston force	198 N	309 N
Impact energy	0,04 J	0,05 J
Weight 0 mm stroke	0,077 kg	0,098 kg
Weight +10 mm stroke	0,02 kg	0,027 kg
Working pressure min./max.	1,5 ... 10 bar	1,5 ... 10 bar
Material, front cover	Aluminum	Aluminum
Sealing material	Nitrile butadiene rubber	Nitrile butadiene rubber
Stroke max.	25 mm	25 mm

Piston Ø	32 mm	40 mm	50 mm	63 mm
Retracting piston force	18,5 N	26 N	39 N	48 N
Extracting piston force	507 N	792 N	1237 N	1964 N
Impact energy	0,16 J	0,24 J	0,32 J	0,38 J
Weight 0 mm stroke	0,171 kg	0,236 kg	0,385 kg	0,606 kg
Weight +10 mm stroke	0,038 kg	0,044 kg	0,067 kg	0,079 kg
Working pressure min./max.	1,3 ... 10 bar	1,3 ... 10 bar	1 ... 10 bar	1 ... 10 bar
Material, front cover	Aluminum	Aluminum	Aluminum	Aluminum
Sealing material	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Stroke max.	25 mm	25 mm	25 mm	25 mm

Retracting piston force see diagram

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).

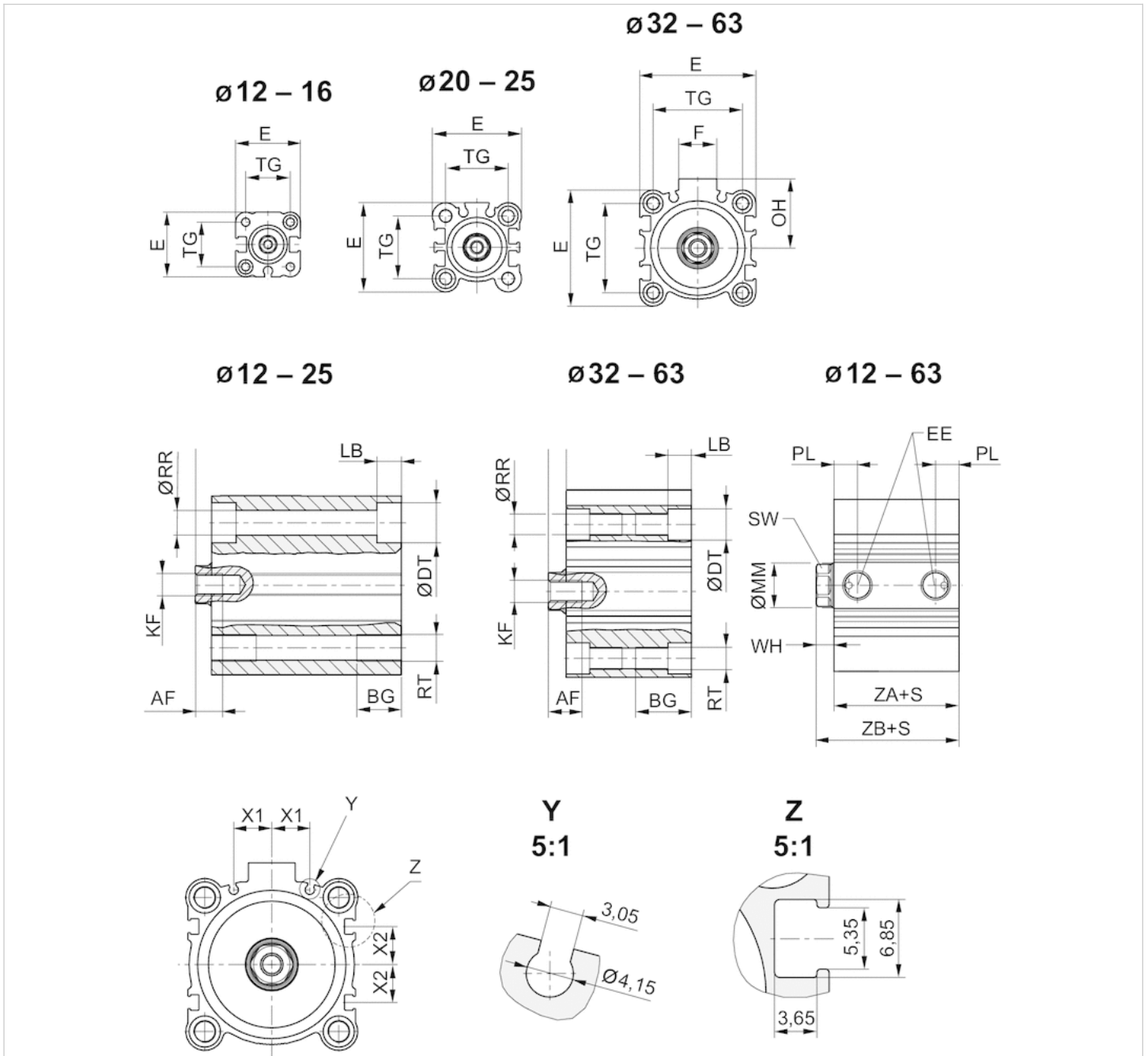
Please note that this variant does not use a scraper.

Technical information

Material	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Brass Aluminum
End cover	Aluminum
Seal	Nitrile butadiene rubber Polyurethane
	See table for additional data on materials.

Dimensions

Dimensions



S = stroke

Dimensions

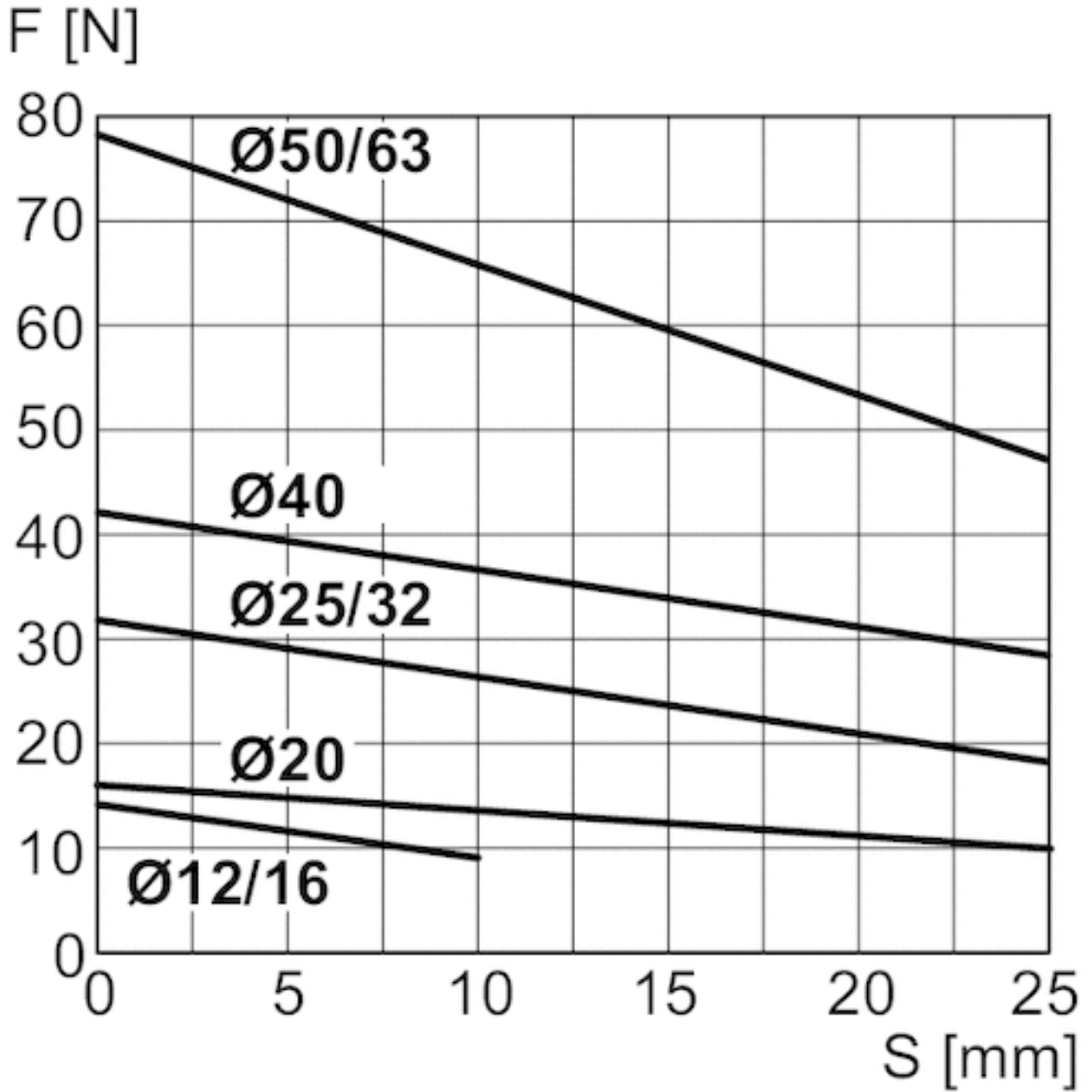
Piston \varnothing	AF	BG	$\varnothing DT$	E	EE	F	KF	LB max.	$\varnothing MM$ f8	OH	PL	$\varnothing RR$	RT	SW	TG
12 mm	6	7	6.5	25	M5	-	M3	3.5	6	-	5.5	3.7	M4	5	15,5 \pm 0,3
16 mm	8	7	6.5	29	M5	-	M4	3.5	8	-	5.5	3.7	M4	7	20 \pm 0,3
20 mm	7	10	9	36	M5	-	M5	5.5	10	-	5.5	5.55	M6	8	25,5 \pm 0,3
25 mm	12	10	9	40	M5	-	M6	5.5	12	-	5.5	5.55	M6	10	28 \pm 0,3
32 mm	13	16	9	45	G 1/8	17	M8	5.5	16	27	7.5	5.55	M6	13	34 \pm 0,3
40 mm	13	16	9	52	G 1/8	17	M8	5.5	16	31	7.5	5.55	M6	13	40 \pm 0,3

Piston Ø	AF	BG	ØDT	E	EE	F	KF	LB max.	ØMM f8	OH	PL	ØRR	RT	SW	TG
50 mm	15	20	11	64	G 1/4	21	M10	8	20	39	10.5	7.4	M8	17	50 ±0,5
63 mm	15	25	14	77	G 1/4	21	M10	10.5	20	45.5	10.5	9.3	M10	17	60 ±0,5

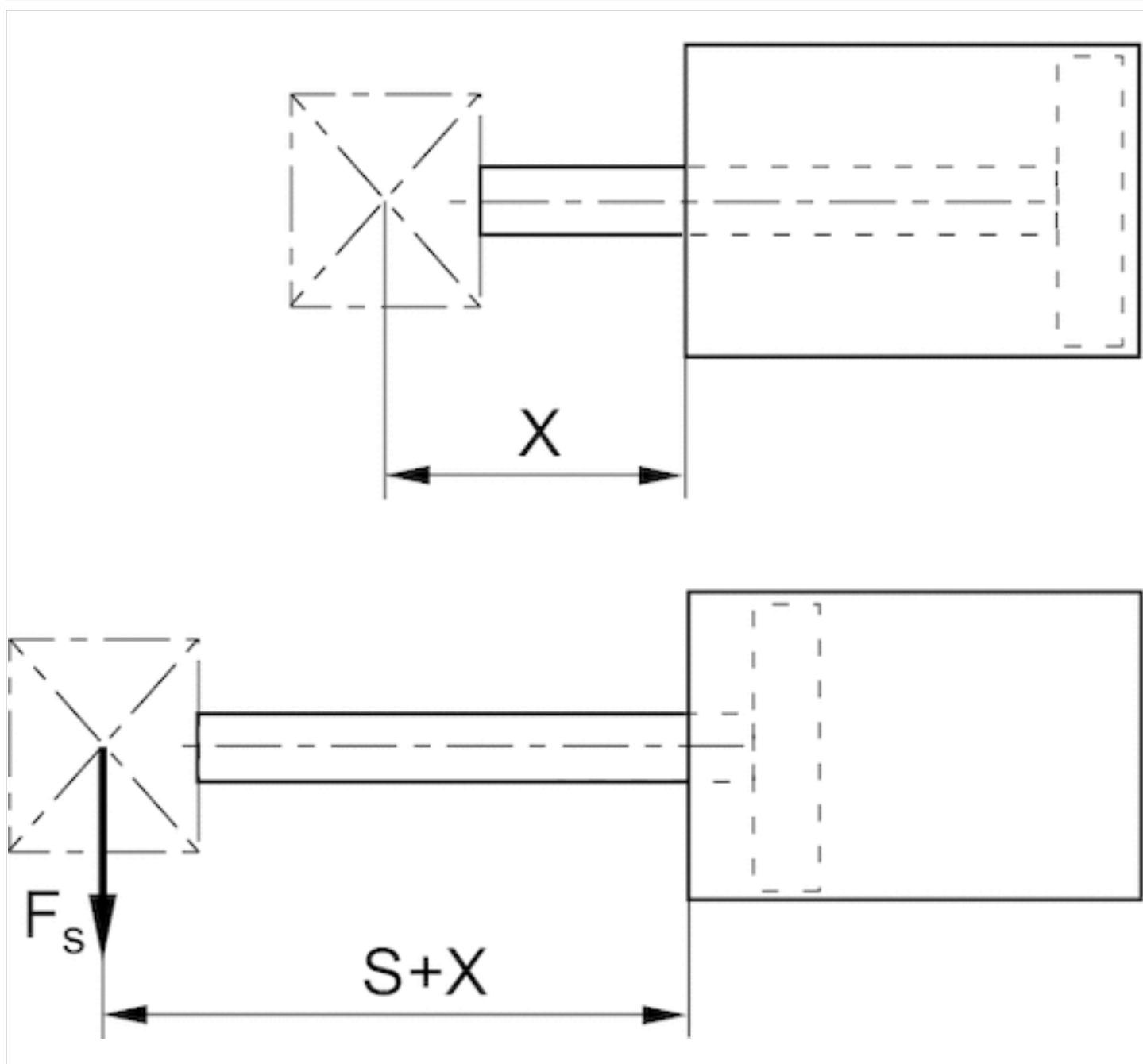
Piston Ø	WH	X1	X2	ZA±0,2	ZB±2
12 mm	3,5 ±1,5	0	0	28	31.5
16 mm	3,5 ±1,5	0	0	30.5	34
20 mm	4,5 ±1,5	5.7	4.3	31,5	für Hub 11-25 mm + 6,5 mm
25 mm	5 ±1,5	6	5	32,5	für Hub 11-25 mm + 6,5 mm
32 mm	7 ±2	8.5	7.5	33	40
40 mm	7 ±2	10.8	11	39.5	46.5
50 mm	8 ±2	14	13	40.5	48.5
63 mm	8 ±2	17	17	46	54

Diagrams

Retracting piston force



F = spring return force, s = return stroke

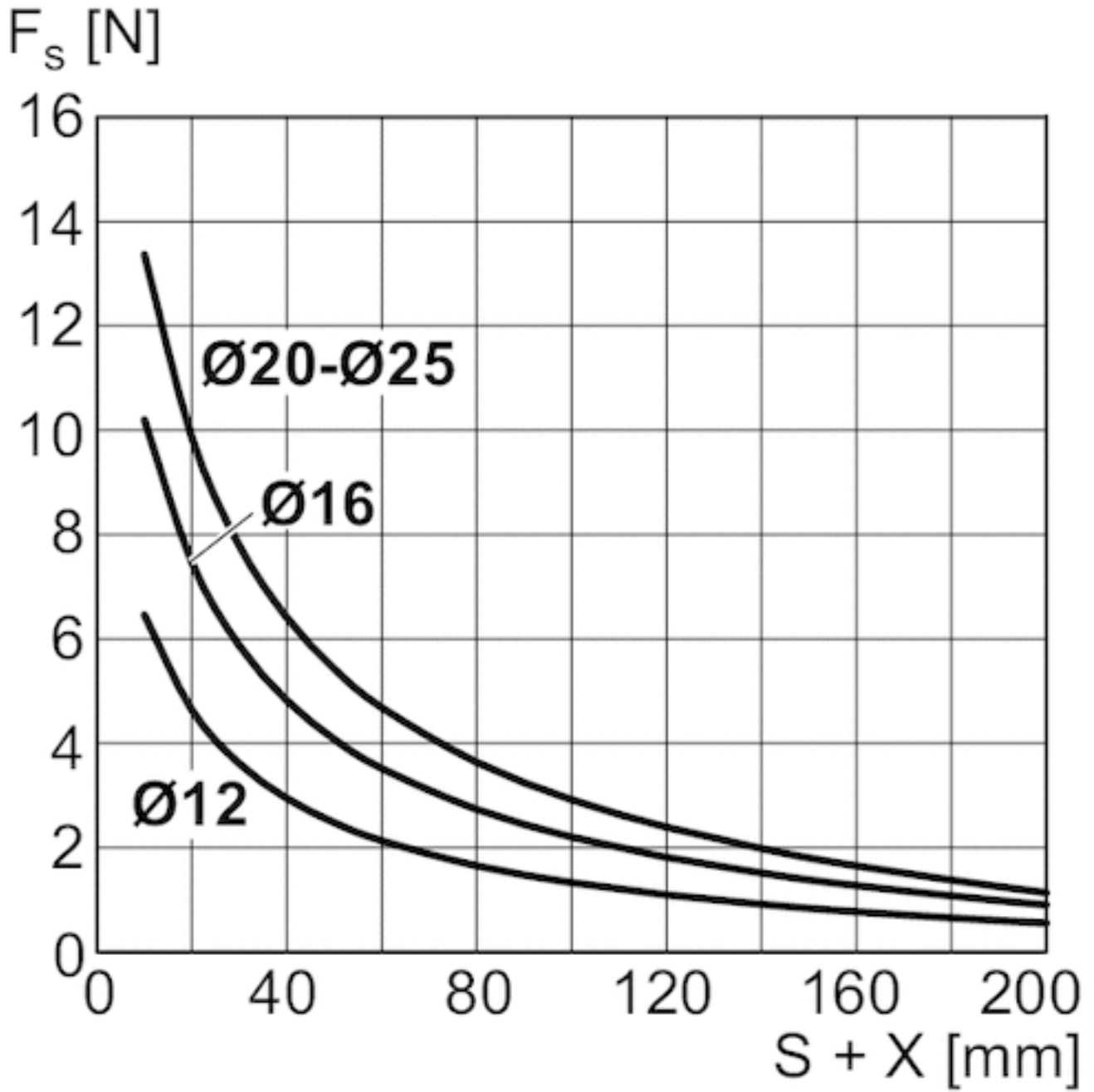
Maximum admissible lateral force, $\varnothing 12 \dots 25 \text{ mm}$ 

X = distance between force application point and cylinder cover

F_s = lateral force

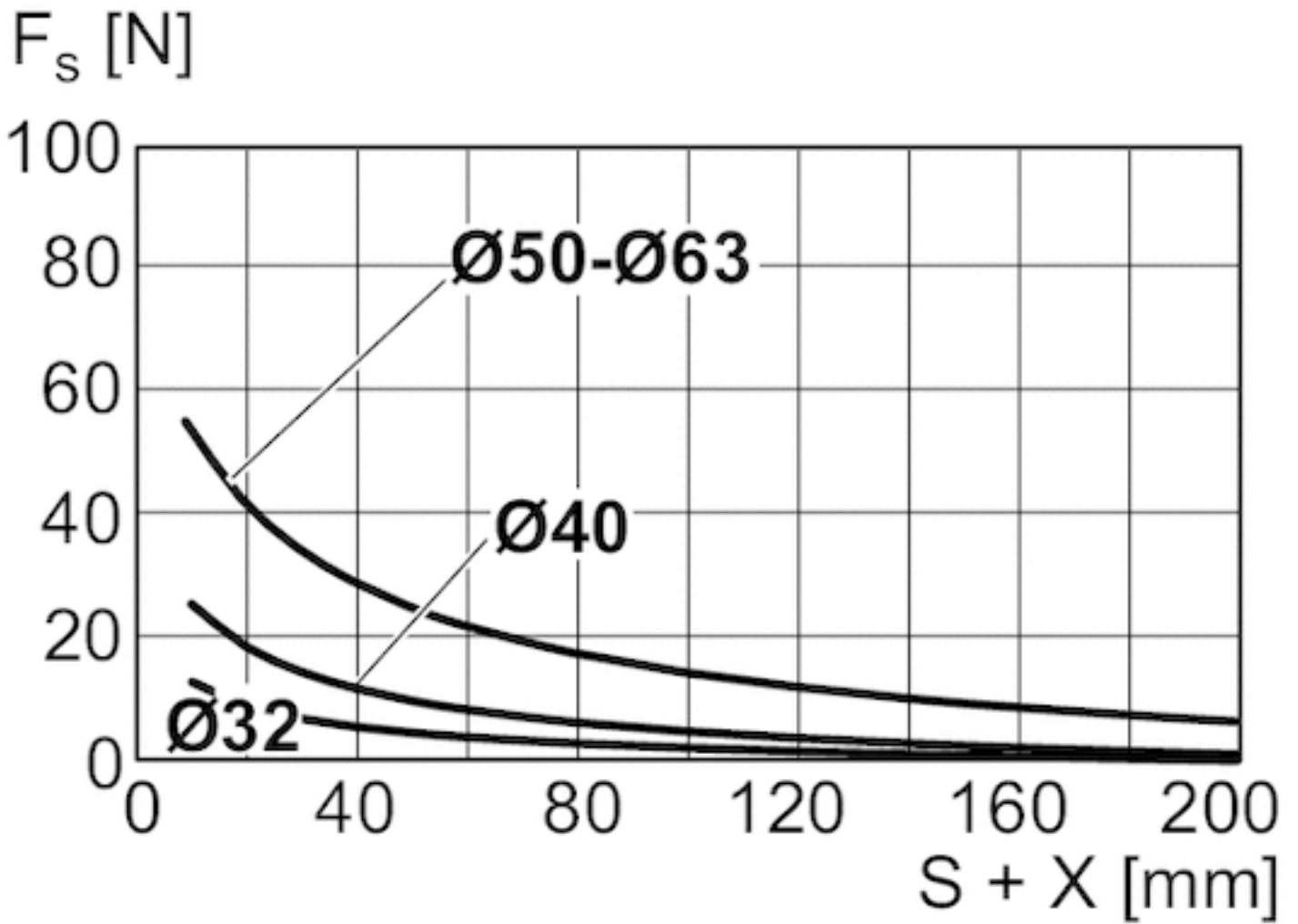
S = stroke

Maximum admissible lateral force, Ø 12 ... 25 mm



X = distance between force application point and cylinder cover
 FS = lateral force
 S = stroke

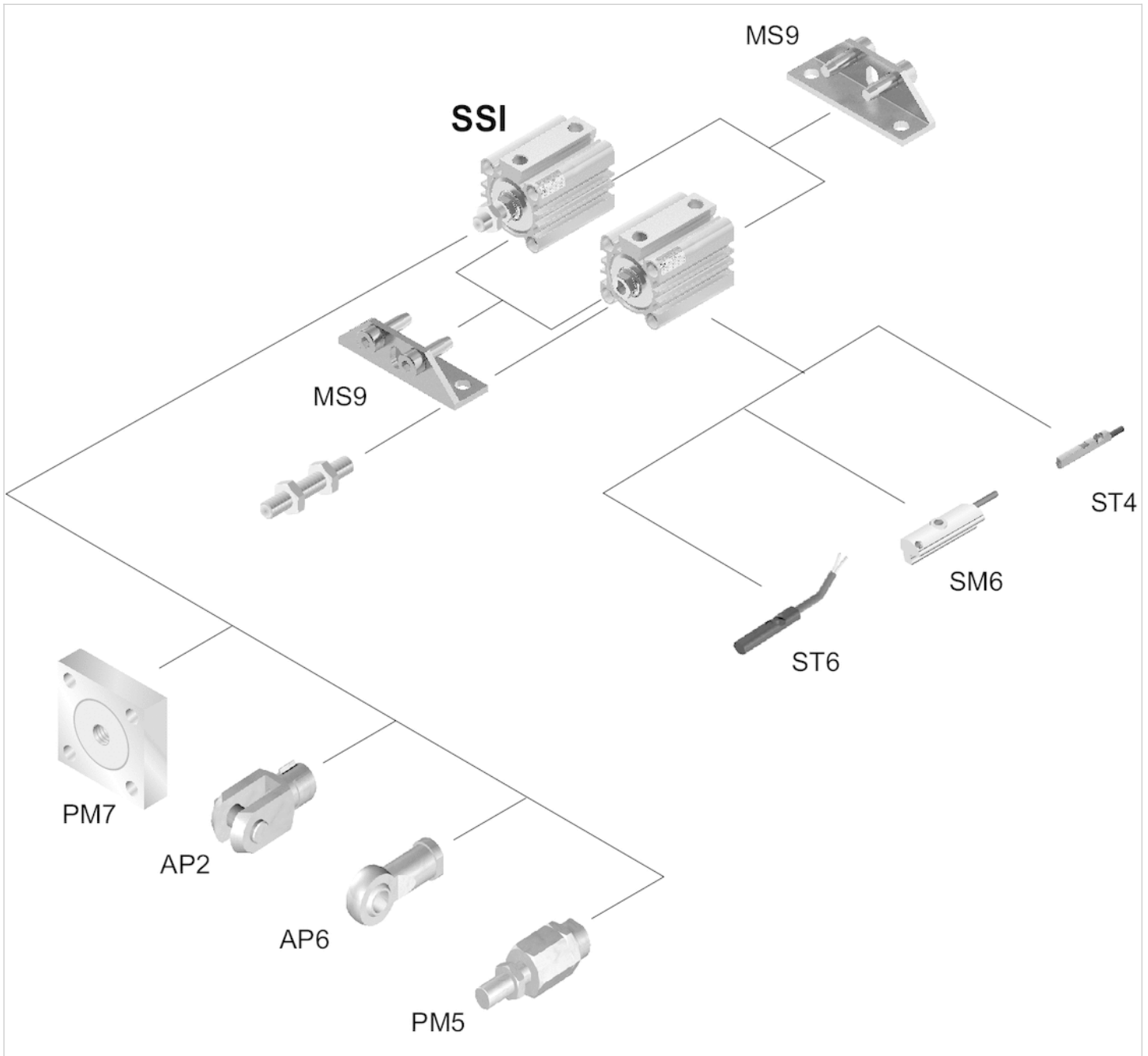
Maximum admissible lateral force, Ø 32 mm ... 63 mm



X = distance between force application point and cylinder cover
 FS = lateral force
 S = stroke

Accessories overview

Overview drawing



Use our Internet configurator to order variants with an external thread.

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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