

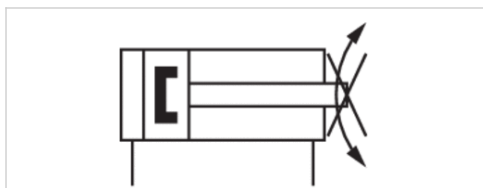
Compact cylinder, Series KPZ

- NFE 49004
- Ø 20-63 mm
- Ports M5 G 1/8
- double-acting
- with magnetic piston
- Cushioning elastic
- Piston rod Internal thread
- Piston rod non-rotating, Optionally through (hollow)



Standards

Compressed air connection	NFE 49004
Ambient temperature min./max.	Internal thread
Medium temperature min./max.	-20 ... 80 °C
Medium	-20 ... 80 °C
Max. particle size	Compressed air
Oil content of compressed air	50 µm
Pressure for determining piston forces	0 ... 5 mg/m ³
	6.3 bar



Technical data

Piston Ø Piston rod thread Ports	20 mm M6 M5	25 mm M6 M5	32 mm M8 G 1/8	40 mm M8 G 1/8	50 mm M10 G 1/8	63 mm M10 G 1/8
Stroke 5	0822391900	0822392900	0822393900	0822394900	0822395900	0822396900
10	0822391901	0822392901	0822393901	0822394901	0822395901	0822396901
15	0822391902	0822392902	0822393902	0822394902	0822395902	0822396902
20	0822391903	0822392903	0822393903	0822394903	0822395903	0822396903
25	0822391904	0822392904	0822393904	0822394904	0822395904	0822396904
30	0822391905	0822392905	0822393905	0822394905	0822395905	0822396905
40	0822391906	0822392906	0822393906	0822394906	0822395906	0822396906
50	0822391907	0822392907	0822393907	0822394907	0822395907	0822396907
60	0822391908	0822392908	0822393908	0822394908	0822395908	0822396908
80	0822391909	0822392909	0822393909	0822394909	0822395909	0822396909
100	0822391910	0822392910	0822393910	0822394910	0822395910	0822396910

Technical data

Piston Ø	20 mm	25 mm
Retracting piston force	148 N	260 N
Extracting piston force	198 N	309 N
Impact energy	0,2 J	0,3 J
Torque for torsion protection, max.	0,25 Nm	0,4 Nm
Working pressure min./max.	1 ... 10 bar	1 ... 10 bar
Sealing material	Nitrile butadiene rubber	Nitrile butadiene rubber
Stroke max.	300 mm	300 mm

Piston Ø	32 mm	40 mm	50 mm
Retracting piston force	435 N	720 N	1110 N
Extracting piston force	507 N	792 N	1237 N
Impact energy	0,5 J	0,7 J	1 J
Torque for torsion protection, max.	0,75 Nm	0,75 Nm	1,5 Nm
Working pressure min./max.	0,6 ... 10 bar	0,6 ... 10 bar	0,6 ... 10 bar
Sealing material	Polyurethane	Polyurethane	Polyurethane
Stroke max.	300 mm	300 mm	300 mm

Piston Ø	63 mm
Retracting piston force	1827 N
Extracting piston force	1964 N
Impact energy	1,3 J
Torque for torsion protection, max.	1,5 Nm
Working pressure min./max.	0,6 ... 10 bar
Sealing material	Polyurethane
Stroke max.	300 mm

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).

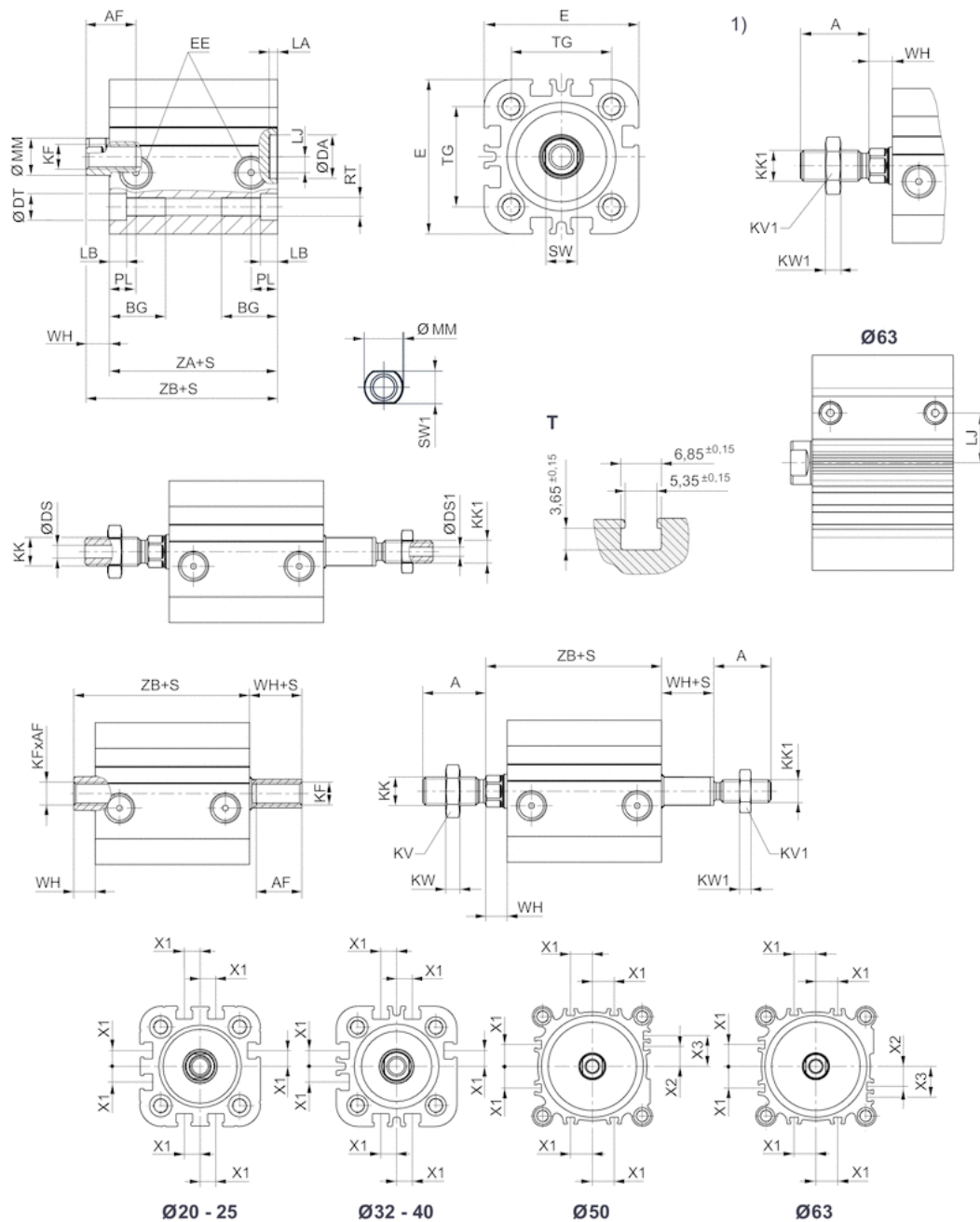
Use our Internet configurator to order variants with an external thread.

Technical information

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

Dimensions

Dimensions



S = stroke

T = View for sensor groove

1) External thread

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

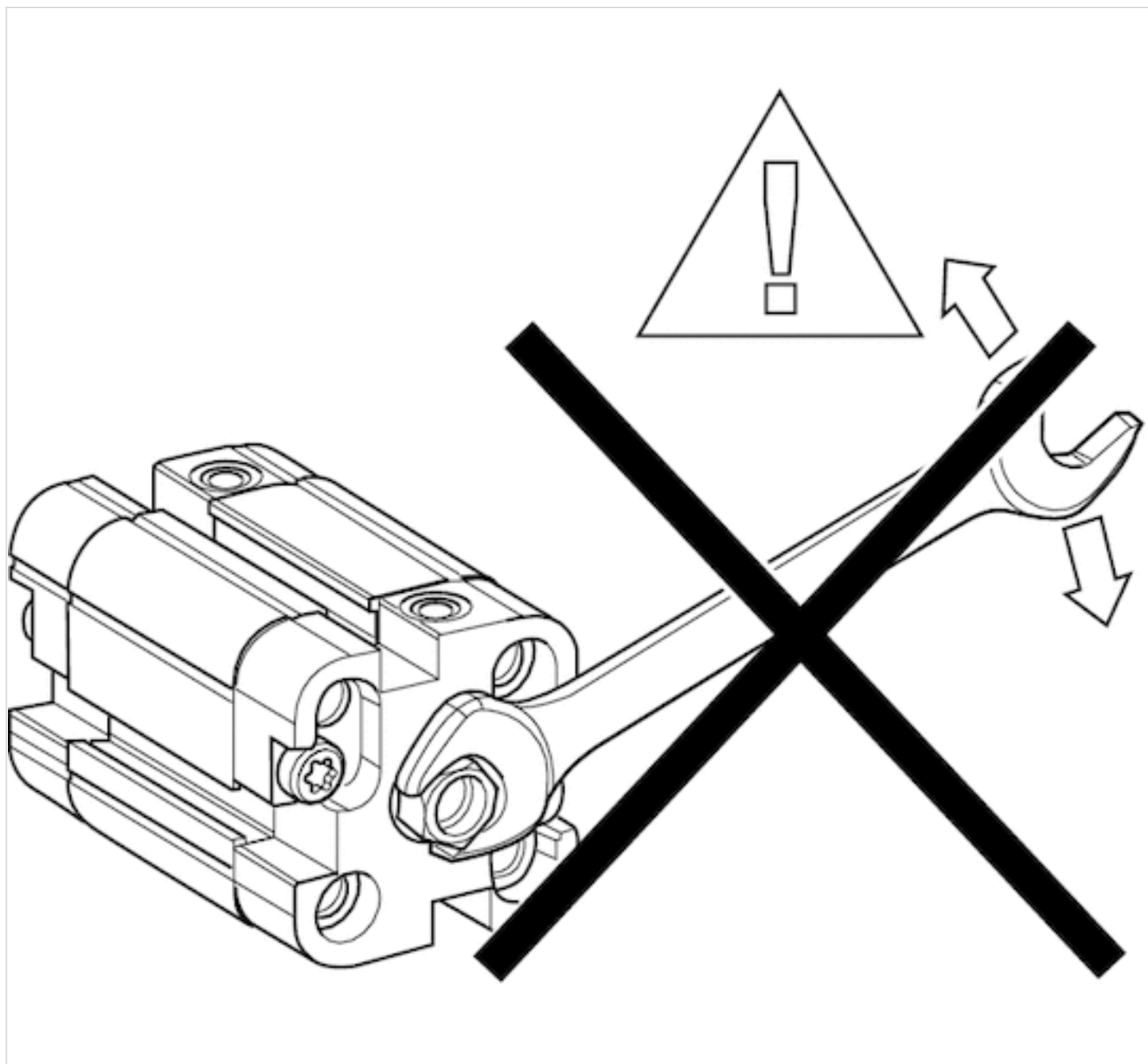
Dimensions

Piston Ø	A	AF min. Option: through piston rod	BG min.	Ø DA H11	Ø DS	Ø DS1	Ø DT H13	E
20 mm	22	12 10: S3 mm 2)	15,5	12	3	-	7,5	36
25 mm	22	12 10: S3 mm 2)	15,5	12	3	-	8	40
32 mm	22	12	18	14	4,5	3	8,6	50
40 mm	22	12	18	14	4,5	3	9	58
50 mm	24	16 12: S4 mm 2)	24	18	6	6	11	68
63 mm	24	16 12: S4 mm 2)	24	18	6	6	11	80

Piston Ø	EE	KF	KK	KK1	KV	KV1	KW	KW1	LA	LB	LJ	LW	MM f8	PL	RT	SW
20 mm	M5	M6	M10x1,25	M8x1,25	16	13	5	4	2,5	4,5	4,5	3,7	10	7,5	M5	8
25 mm	M5	M6	M10x1,25	M8x1,25	16	13	5	4	2,5	4,4	5	3,7	10	7,5	M5	8
32 mm	G 1/8	M8	M10x1,25	M8x1,25	16	13	5	4	2,5	5,5	5,1	5	12	8,5	M6	10
40 mm	G 1/8	M8	M10x1,25	M8x1,25	16	13	5	4	2,5	5,5	9,6	5	12	8,5	M6	10
50 mm	G 1/8	M10	M12x1,25	M10x1,25	18	16	6	5	2,5	2	8,5	5,7	16	8,5	M8	13
63 mm	G 1/8	M10	M12x1,25	M10x1,25	18	16	6	5	2,5	2	17,8	5,7	16	8,5	M8	13

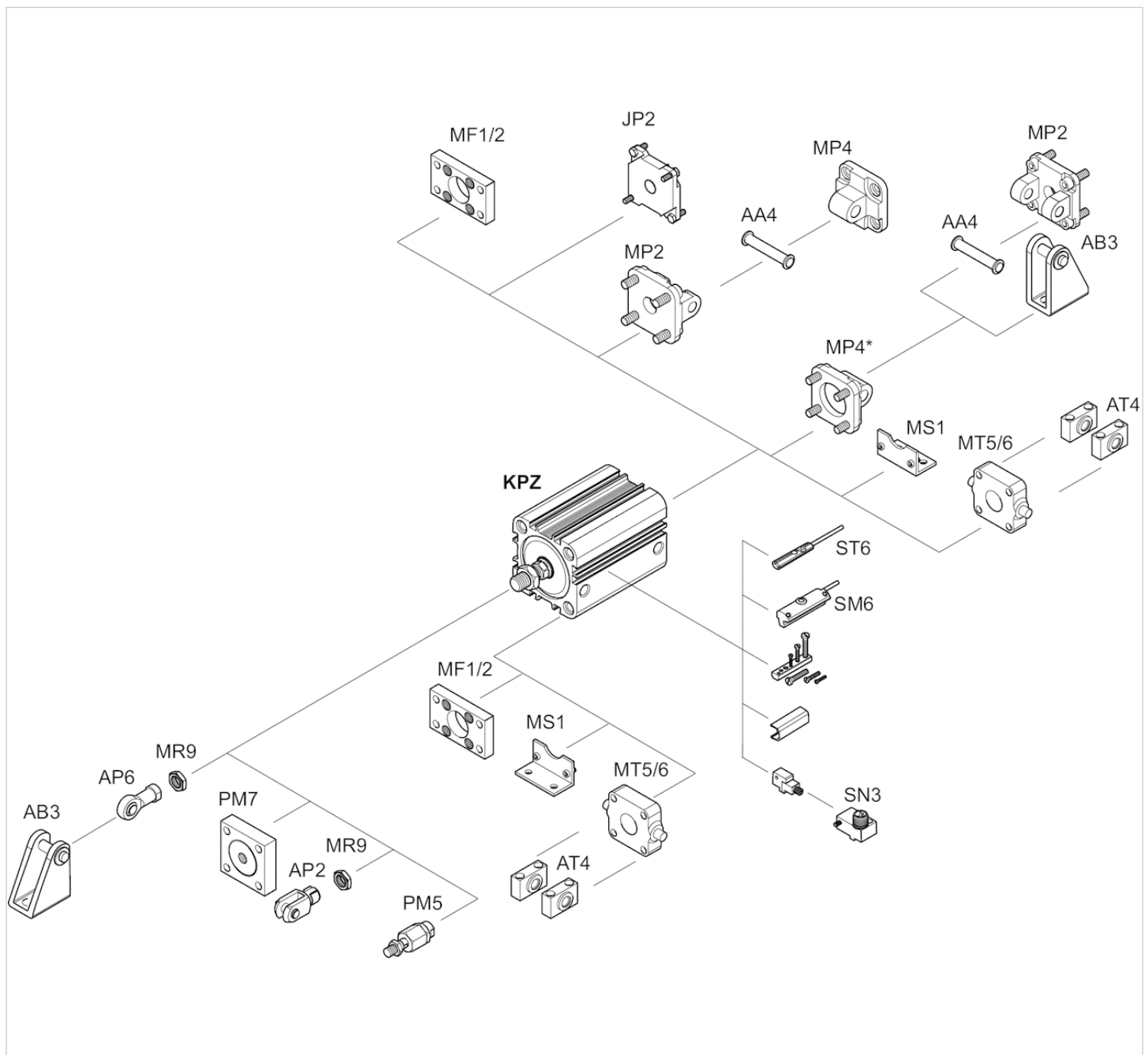
Piston Ø	SW1	TG	WH	X1	X2	X3	ZA + Stroke	ZB + Stroke
20 mm	8	22 ±0,4	5	4,2	-	-	38	43 0/+1,4
25 mm	8	26 ±0,4	5,5	4,5	-	-	39	44,5 0/+1,6
32 mm	10	32 ±0,5	7	6,5	-	-	44	51 0/+1,6
40 mm	10	42 ±0,5	7	11	-	-	45	52 0/+1,6
50 mm	13	50 ±0,6	7,5	13	4	13	45,5	53 0/+1,6
63 mm	13	62 ±0,7	8	18	12	21	49	57 ±2

Dimensions



Accessories overview

Overview drawing



* Available for installation on KPZ for cylinder diameters 16 - 25 mm

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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