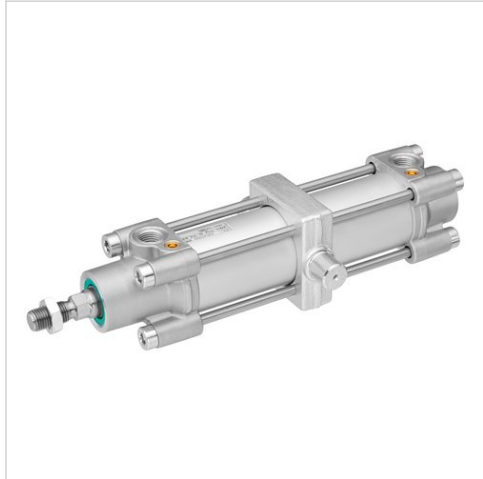


Tie rod cylinder ISO 15552, Series TRB

- ISO 15552
- Ø 32-125 mm
- Ports G 1/8 G 1/4 G 3/8 G 1/2
- double-acting
- with magnetic piston
- Cushioning pneumatically adjustable
- with trunnion mounting
- Piston rod External thread



Standards

Compressed air connection

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Max. particle size

Oil content of compressed air

Pressure for determining piston forces

ISO 15552

Internal thread

1,5 ... 10 bar

-20 ... 80 °C

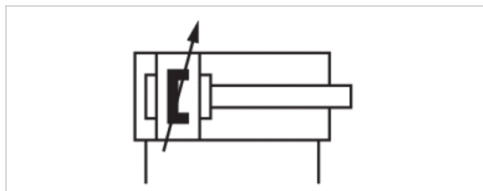
-20 ... 80 °C

Compressed air

50 µm

0 ... 5 mg/m³

6.3 bar



Technical data

Piston Ø Piston rod thread Ports Piston rod Ø	32 mm M10x1,25 G 1/8 12 mm	40 mm M12x1,25 G 1/4 16 mm	50 mm M16x1,5 G 1/4 20 mm	63 mm M16x1,5 G 3/8 20 mm	80 mm M20x1,5 G 3/8 25 mm	100 mm M20x1,5 G 1/2 25 mm
Stroke 80	0822340902	0822341902	0822342902	0822343902	0822344902	0822345902
100	0822340903	0822341903	0822342903	0822343903	0822344903	0822345903
125	0822340904	0822341904	0822342904	0822343904	0822344904	0822345904
160	0822340905	0822341905	0822342905	0822343905	0822344905	0822345905
200	0822340906	0822341906	0822342906	0822343906	0822344906	0822345906
250	0822340907	0822341907	0822342907	0822343907	0822344907	0822345907
320	0822340908	0822341908	0822342908	0822343908	0822344908	0822345908
400	0822340909	0822341909	0822342909	0822343909	0822344909	0822345909
500	0822340910	0822341910	0822342910	0822343910	0822344910	0822345910

Piston Ø Piston rod thread Ports Piston rod Ø	125 mm M27x2 G 1/2 32 mm
Stroke 80	7472412312
100	R480647252
125	R480166294
160	7472412341
200	R480647253
250	7472412343
320	7472412344
400	R480647341
500	R480166072

Technical data

Piston Ø	32 mm	40 mm	50 mm	63 mm
Retracting piston force	435 N	660 N	1035 N	1765 N
Extracting piston force	505 N	790 N	1235 N	1960 N
Cushioning length	16,5 mm	19 mm	17 mm	16,5 mm
Cushioning energy	4,8 J	9 J	15 J	27 J
Weight 0 mm stroke	0,76 kg	1,17 kg	1,84 kg	2,5 kg
Weight +10 mm stroke	0,024 kg	0,03 kg	0,036 kg	0,052 kg
Tie-rods	Stainless steel	Stainless steel	Steel galvanized	Steel galvanized
Stroke max.	1600 mm	1900 mm	2100 mm	2500 mm

Piston Ø	80 mm	100 mm	125 mm
Retracting piston force	2855 N	4635 N	7220 N
Extracting piston force	3165 N	4945 N	7725 N
Cushioning length	19,5 mm	19,5 mm	22 mm
Cushioning energy	54 J	88 J	140 J
Weight 0 mm stroke	3,67 kg	5,86 kg	10,62 kg
Weight +10 mm stroke	0,06 kg	0,065 kg	0,21 kg
Tie-rods	Steel galvanized	Steel galvanized	Steel galvanized
Stroke max.	2800 mm	2800 mm	2750 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).

NOTE:

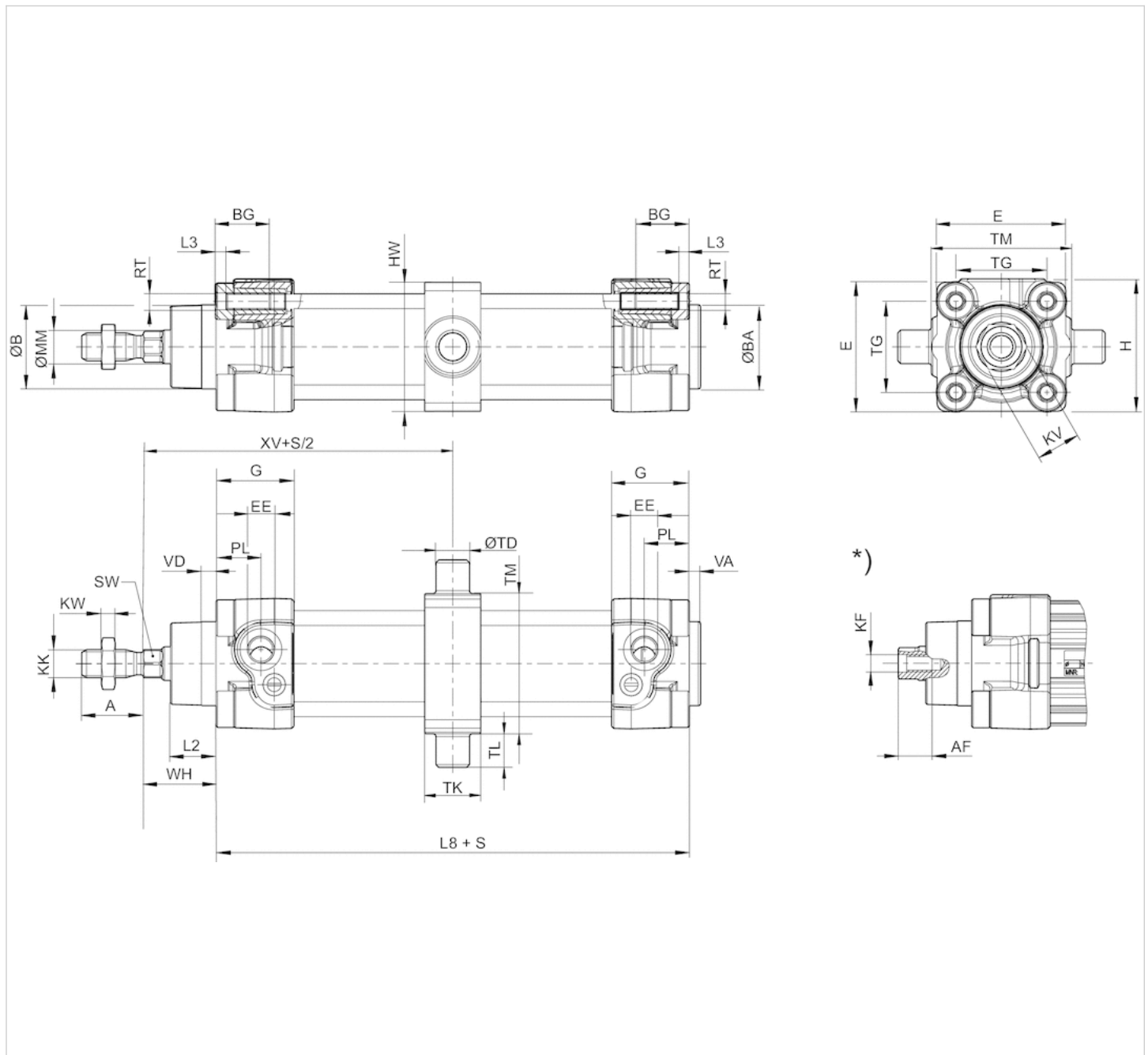
The orientation and position of the trunnion mounting in the center of the cylinder may not be changed!

Technical information

Material	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Die-cast aluminum
End cover	Die-cast aluminum
Seal	Polyurethane
Nut for piston rod	Steel, galvanized
Scraper	Polyurethane
Trunnion mounting	Nodular graphite iron, galvanized
Tie-rods	Stainless steel Steel, galvanized
	See table for additional data on materials.

Dimensions

Dimensions



S = stroke

*) For cylinders with optional piston rod with internal thread

Dimensions

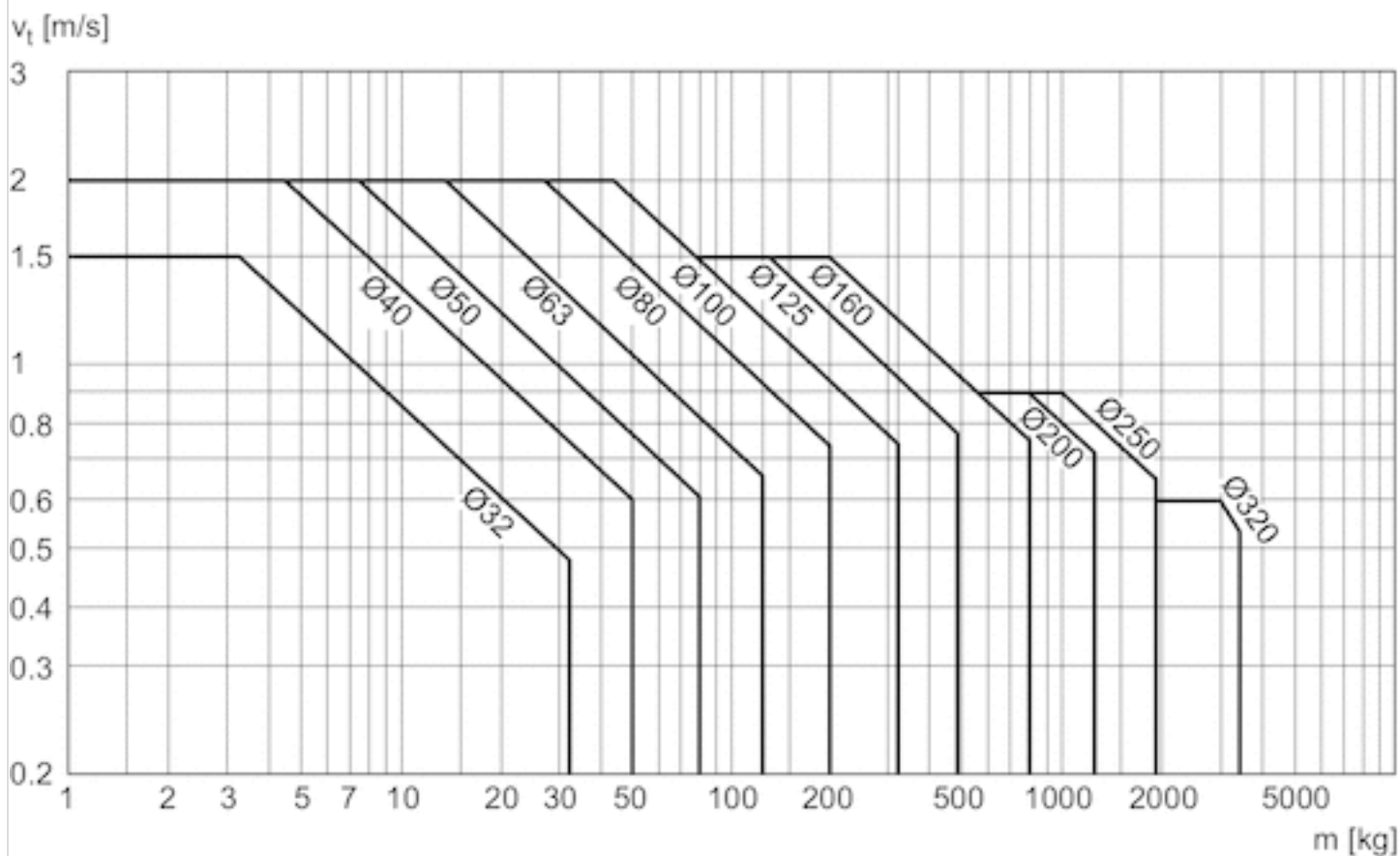
Piston Ø	A -2	AF+1	ØB d11	ØBA d11	BG min.	E	EE	G	H	KF	KK	KV	KW
32 mm	22	12	30	30	16	46.5	G1/8	27.75	47.5	M6	M10x1,25	16	5
40 mm	24	13.5	35	35	16	53	G1/4	33.25	53	M8	M12x1,25	18	6
50 mm	32	17	40	40	16	65	G1/4	31	65	M10	M16x1,5	24	8
63 mm	32	17	45	45	16	75	G3/8	38.25	75	M10	M16x1,5	24	8
80 mm	40	21	45	45	17	95	G3/8	38.25	95	M12	M20x1,5	30	10
100 mm	40	21	55	55	17	115	G1/2	42.25	115	M12	M20x1,5	30	10
125 mm	54	28	60	60	20	140	G1/2	53.85	140	M16	M27x2	41	13.5

Piston Ø	ØMM f8	PL	L2	L3 ±0,5	L8	RT	SW	TG	VA -1	VD	WH	HW	ØTD e9
32 mm	12	16	16.25	4.5	94±0,4	M6	10	32,5±0,5	4	5	26±1,4	46	12
40 mm	16	20	18.25	4.5	105±0,7	M6	13	38±0,5	4	5	30±1,4	59	16
50 mm	20	19	25	4.5	106±0,7	M8	17	46,5±0,6	4	5	37±1,4	69	16
63 mm	20	24	25	4.5	121±0,8	M8	17	56,5±0,7	4	5	37±1,8	84	20
80 mm	25	23.5	33	0	128±0,8	M10	22	72±0,7	4	5	46±1,8	102	20
100 mm	25	25	36	0	138±1	M10	22	89±0,7	4	5	51±1,8	125	25
125 mm	32	33	45	0	160±1	M12	27	110±1,1	6	7	65±2,2	155	25

Piston Ø	TK	TL h14	TM h14	XV
32 mm	20	12	50	73
40 mm	20	16	63	82.5
50 mm	25	16	75	90
63 mm	30	20	90	97.5
80 mm	35	20	110	110
100 mm	46	25	132	120
125 mm	32	25	160	145

Diagrams

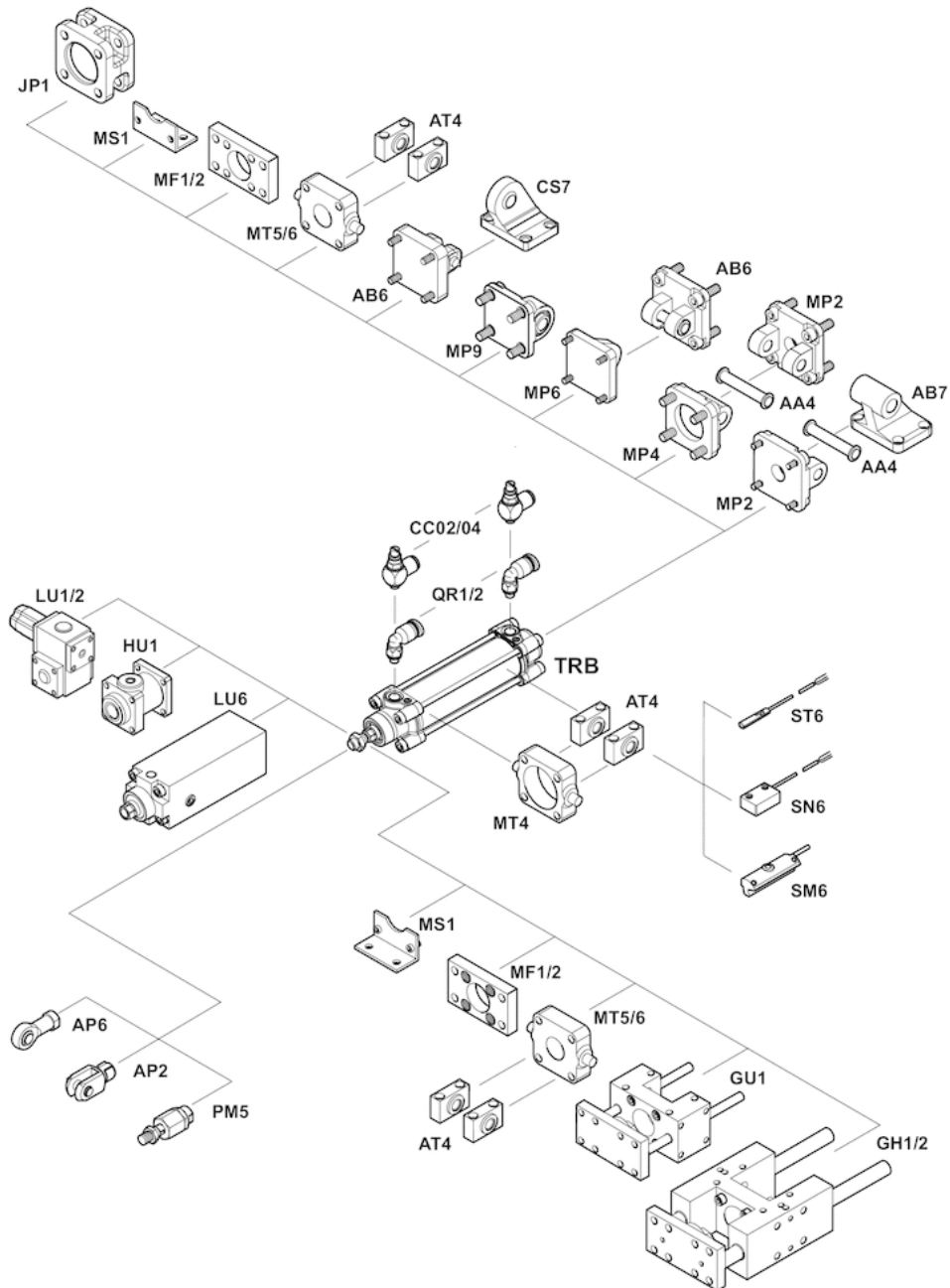
Cushioning diagram



v = Piston velocity [m/s]

m = Cushionable mass [kg]

Accessories overview



Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



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