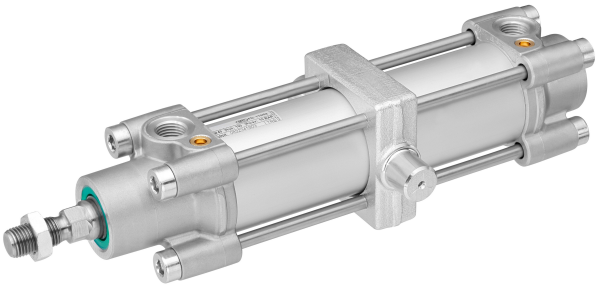
Tie rod cylinder ISO 15552, Series TRB

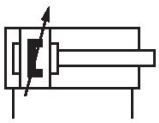
0822340903

AVENTICS Series TRB Tie rod cylinders (ISO 15552)

The AVENTICS Series TRB (ISO 15552) cylinders are among the most frequently implemented in industries where heavy duty cylinders are required, such as wood and aluminium, steel and automotive, heavy-duty machinery and mining to name just a few.

- Available in piston diameters from 32 mm to 125 mm
- Advanced pneumatic cushioning
- Additional elastic damping elements
- Wide range of scraper modules available
- With the modular system you can change the scraper on the cylinder at any time and considerably decrease service intervals
- Wide range of variants and accessories available in the configurator





Technical data

Industry	Industrial
Standards	ISO 15552
Piston Ø	32 mm
Stroke	100 mm
Ports	G 1/8
Functional principle	Double-acting
Cushioning	Pneumatic adjustable cushioning
Magnetic piston	With magnet
Environmental requirements	Industry standard ATEX optional
Piston rod thread - type	External thread
Piston rod thread	M10x1,25
Piston rod	single
Cylinder special features	with trunnion mounting
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Retracting piston force	435 N
Extracting piston force	505 N
Min. ambient temperature	-20 °C
Max. ambient temperature	80 °C

Min. working pressure	1.5 bar
Max. working pressure	10 bar
Cushioning length	16.5 mm
Cushioning energy	4.8 J
Weight 0 mm stroke	0.76 kg
Weight +10 mm stroke	0.024 kg
Stroke max.	1600 mm
Medium	Compressed air
Min. medium temperature	-20 °C
Max. medium temperature	80 °C
Max. particle size	50 µm
Min. oil content of compressed air	0 mg/m³
Max. oil content of compressed air	5 mg/m³

Material

Piston rod	Stainless Steel
Scraper material	Polyurethane
Material tie-rod	Stainless Steel
Seal material	Polyurethane
Material, front cover	Die-cast aluminum
Cylinder tube	Aluminum
End cover	Die-cast aluminum
Nut for piston rod	Steel, chrome-plated
Trunnion mounting	Nodular graphite iron
Part No.	0822340903

Technical information

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

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.

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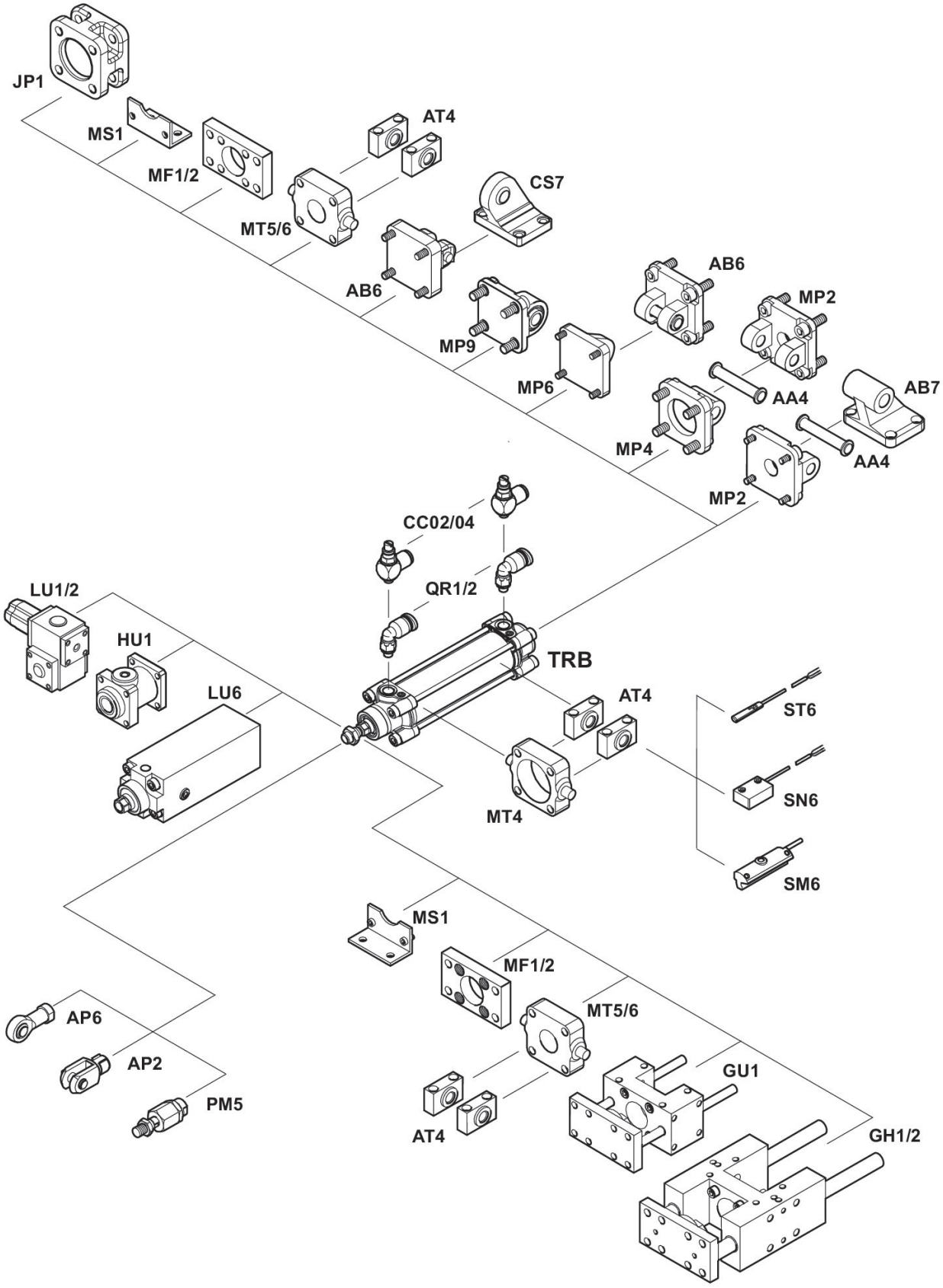
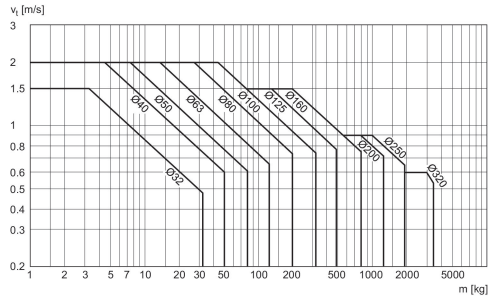
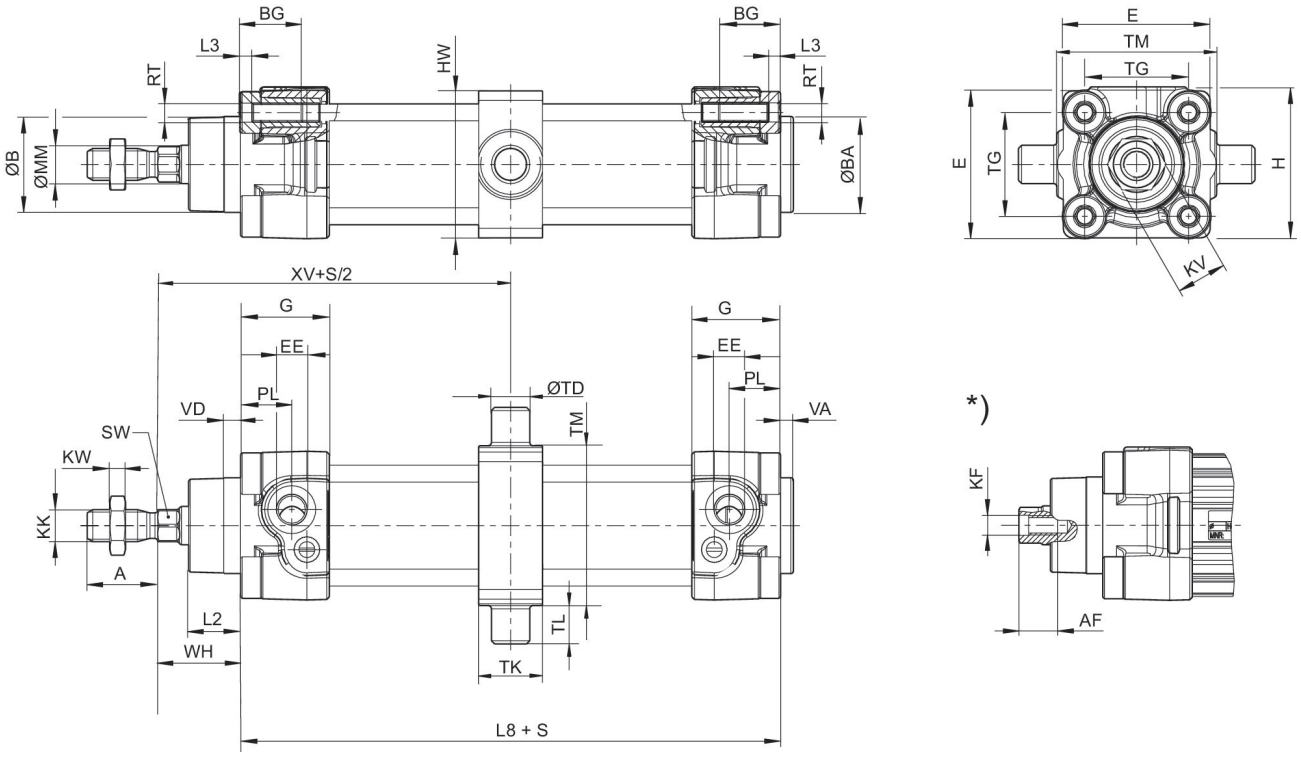


Cushioning diagram



v_t = Piston velocity [m/s] m = Cushionable mass [kg]

Dimensions



S = stroke
*) For cylinders with optional piston road with internal thread

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

Piston Ø	KK	KV	KW	ØMM f8	PL	L2	L3 ±0,5	L8	RT	SW
32	M10x1,25	16	5	12	16	16.25	4.5	94±0,4	M6	10
40	M12x1,25	18	6	16	20	18.25	4.5	105±0,7	M6	13
50	M16x1,5	24	8	20	19	25	4.5	106±0,7	M8	17
63	M16x1,5	24	8	20	24	25	4.5	121±0,8	M8	17
80	M20x1,5	30	10	25	23.5	33	0	128±0,8	M10	22
100	M20x1,5	30	10	25	25	36	0	138±1	M10	22
125	M27x2	41	13.5	32	33	45	0	160±1	M12	27

Piston Ø	TG	VA -1	VD	WH	HW	ØTD e9	TK	TL h14	TM h14	XV
32	32,5±0,5	4	5	26±1,4	46	12	20	12	50	73
40	38±0,5	4	5	30±1,4	59	16	20	16	63	82.5
50	46,5±0,6	4	5	37±1,4	69	16	25	16	75	90
63	56,5±0,7	4	5	37±1,8	84	20	30	20	90	97.5
80	72±0,7	4	5	46±1,8	102	20	35	20	110	110
100	89±0,7	4	5	51±1,8	125	25	46	25	132	120
125	110±1,1	6	7	65±2,2	155	25	32	25	160	145