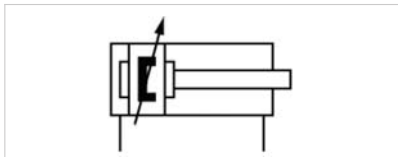


Tie rod cylinder ISO 15552, Series TRB

- 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	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	1,5 ... 10 bar
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/m³
Pressure for determining piston forces	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	125 mm M27x2 G 1/2 32 mm
Stroke 80	0822340902	0822341902	0822342902	0822343902	0822344902	0822345902	7472412312
100	0822340903	0822341903	0822342903	0822343903	0822344903	0822345903	R480647252
125	0822340904	0822341904	0822342904	0822343904	0822344904	0822345904	R480166294
160	0822340905	0822341905	0822342905	0822343905	0822344905	0822345905	7472412341
200	0822340906	0822341906	0822342906	0822343906	0822344906	0822345906	R480647253
250	0822340907	0822341907	0822342907	0822343907	0822344907	0822345907	7472412343
320	0822340908	0822341908	0822342908	0822343908	0822344908	0822345908	7472412344
400	0822340909	0822341909	0822342909	0822343909	0822344909	0822345909	R480647341
500	0822340910	0822341910	0822342910	0822343910	0822344910	0822345910	R480166072

Technical data

Piston Ø	32 mm	40 mm	50 mm	63 mm	80 mm	100 mm
Retracting piston force	435 N	660 N	1035 N	1765 N	2855 N	4635 N
Extracting piston force	505 N	790 N	1235 N	1960 N	3165 N	4945 N
Cushioning length	16,5 mm	19 mm	17 mm	16,5 mm	19,5 mm	19,5 mm
Cushioning energy	4,8 J	9 J	15 J	27 J	54 J	88 J
Weight 0 mm stroke	0,76 kg	1,17 kg	1,84 kg	2,5 kg	3,67 kg	5,86 kg
Weight +10 mm stroke	0,024 kg	0,03 kg	0,036 kg	0,052 kg	0,06 kg	0,065 kg
Stroke max.	1600 mm	1900 mm	2100 mm	2500 mm	2800 mm	2800 mm
Tie-rods	Stainless steel	Stainless steel	Steel, galvanized	Steel, galvanized	Steel, galvanized	Steel, galvanized

Piston Ø	125 mm
Retracting piston force	7220 N
Extracting piston force	7725 N
Cushioning length	22 mm
Cushioning energy	140 J
Weight 0 mm stroke	10,62 kg
Weight +10 mm stroke	0,21 kg
Stroke max.	2750 mm
Tie-rods	Steel, galvanized

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).

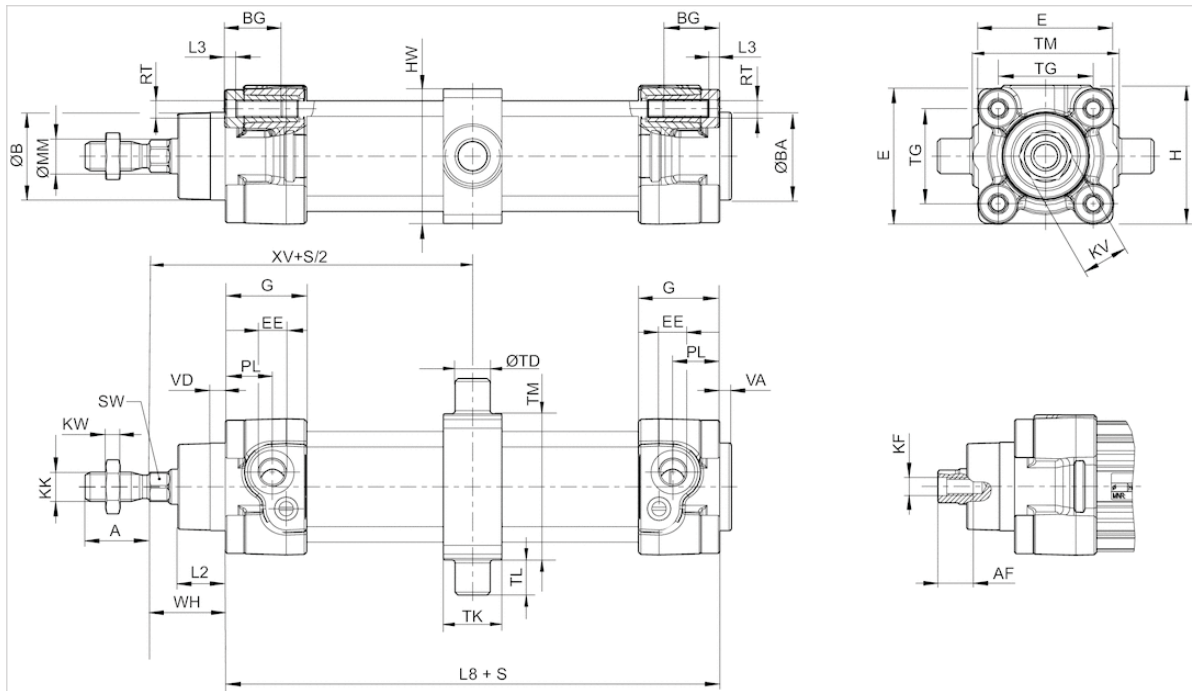
NOTE: The orientation and position of the trunnion mounting in the center of the cylinder may not be changed!

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

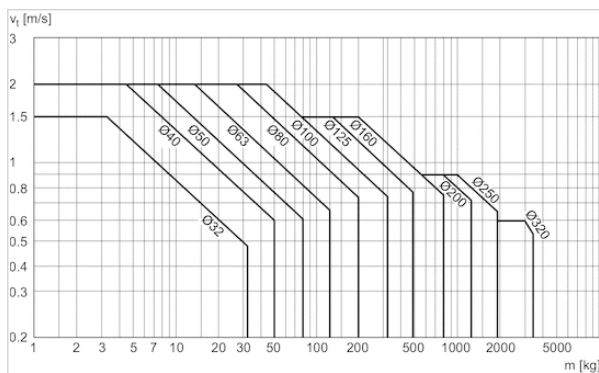
Dimensions

Piston Ø	A -2	AF+1	ØB d11	ØBA d11	BG min.	E	EE	G	H	KF	KK	KV	KW	ØMM f8	PL	L2	L3 ±0,5
32 mm	22	12	30	30	16	46.5	G1/8	27.75	47.5	M6	M10x1,25	16	5	12	16	16.25	4.5
40 mm	24	13.5	35	35	16	53	G1/4	33.25	53	M8	M12x1,25	18	6	16	20	18.25	4.5
50 mm	32	17	40	40	16	65	G1/4	31	65	M10	M16x1,5	24	8	20	19	25	4.5
63 mm	32	17	45	45	16	75	G3/8	38.25	75	M10	M16x1,5	24	8	20	24	25	4.5
80 mm	40	21	45	45	17	95	G3/8	38.25	95	M12	M20x1,5	30	10	25	23.5	33	0
100 mm	40	21	55	55	17	115	G1/2	42.25	115	M12	M20x1,5	30	10	25	25	36	0
125 mm	54	28	60	60	20	140	G1/2	53.85	140	M16	M27x2	41	13.5	32	33	45	0

L8	RT	SW	TG	VA -1	VD	WH	HW	ØTD e9	TK	TL h14	TM h14	XV
94±0,4	M6	10	32,5±0,5	4	5	26±1,4	46	12	20	12	50	73
105±0,7	M6	13	38±0,5	4	5	30±1,4	59	16	20	16	63	82.5
106±0,7	M8	17	46,5±0,6	4	5	37±1,4	69	16	25	16	75	90
121±0,8	M8	17	56,5±0,7	4	5	37±1,8	84	20	30	20	90	97.5
128±0,8	M10	22	72±0,7	4	5	46±1,8	102	20	35	20	110	110
138±1	M10	22	89±0,7	4	5	51±1,8	125	25	46	25	132	120
160±1	M12	27	110±1,1	6	7	65±2,2	155	25	32	25	160	145

Diagrams

Cushioning diagram



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

Accessories overview

