

Piston rod cylinder ▶ Standard cylinders

Tie rod cylinder ISO 15552, Series TRB

▶ Ports: G 1/8 - G 1/2 ▶ double-acting ▶ with magnetic piston ▶ cushioning: pneumatically, adjustable ▶ with trunnion mounting ▶ Piston rod: external thread



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Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20 °C / +80 °C
Medium temperature min./max.	-20 °C / +80 °C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m ³ - 5 mg/m ³
Pressure for determining piston forces	6,3 bar

Materials:	
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

See table for additional data on materials.

Technical Remarks

- 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, see chapter „Technical information“.
- NOTE: The orientation and position of the trunnion mounting in the center of the cylinder may not be changed!

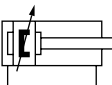
Piston Ø		[mm]	32	40	50	63	80
Retracting piston force		[N]	435	660	1035	1765	2855
Extracting piston force		[N]	505	790	1235	1960	3165
Cushioning length		[mm]	16.5	19	17	16.5	19.5
Cushioning energy		[J]	4.8	9	15	27	54
Weight	0 mm stroke	[kg]	0.76	1.17	1.84	2.5	3.67
	+10 mm stroke	[kg]	0.024	0.03	0.036	0.052	0.06
Stroke max.		[mm]	1600	1900	2100	2500	2800
Tie-rods			Stainless steel	Stainless steel	Steel galvanized	Steel galvanized	Steel galvanized

Piston Ø		[mm]	100	125		
Retracting piston force		[N]	4635	7220		
Extracting piston force		[N]	4945	7725		
Cushioning length		[mm]	19.5	22		
Cushioning energy		[J]	88	140		
Weight	0 mm stroke	[kg]	5.86	10.62		
	+10 mm stroke	[kg]	0.065	0.21		
Stroke max.		[mm]	2800	2750		
Tie-rods			Steel galvanized	Steel galvanized		

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	Piston Ø Piston rod thread Ports Piston rod Ø	32 M10x1,25 G 1/8 12	40 M12x1,25 G 1/4 16	50 M16x1,5 G 1/4 20	63 M16x1,5 G 3/8 20	80 M20x1,5 G 3/8 25	
	Stroke 80	0822340902	0822341902	0822342902	0822343902	0822344902	
	100	0822340903	0822341903	0822342903	0822343903	0822344903	
	125	0822340904	0822341904	0822342904	0822343904	0822344904	
	160	0822340905	0822341905	0822342905	0822343905	0822344905	
	200	0822340906	0822341906	0822342906	0822343906	0822344906	
	250	0822340907	0822341907	0822342907	0822343907	0822344907	
	320	0822340908	0822341908	0822342908	0822343908	0822344908	
	400	0822340909	0822341909	0822342909	0822343909	0822344909	
	500	0822340910	0822341910	0822342910	0822343910	0822344910	
	Piston Ø Piston rod thread Ports Piston rod Ø	100 M20x1,5 G 1/2 25	125 M27x2 G 1/2 32				
	Stroke 80	0822345902	7472412312				
	100	0822345903	R480647252				
	125	0822345904	R480166294				
	160	0822345905	7472412341				
	200	0822345906	R480647253				
	250	0822345907	7472412343				
	320	0822345908	7472412344				
	400	0822345909	R480647341				
	500	0822345910	R480166072				

Configurable product



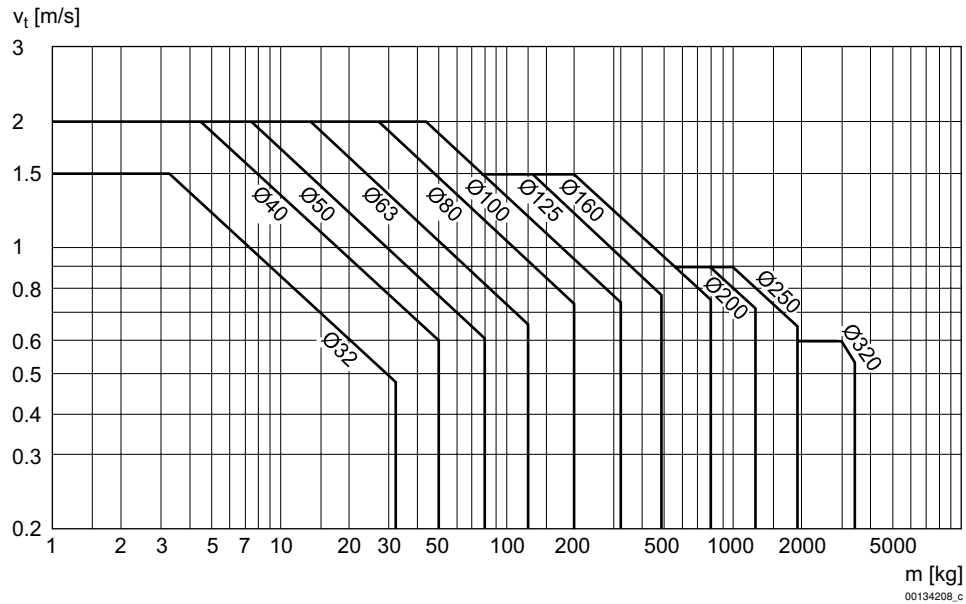
This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

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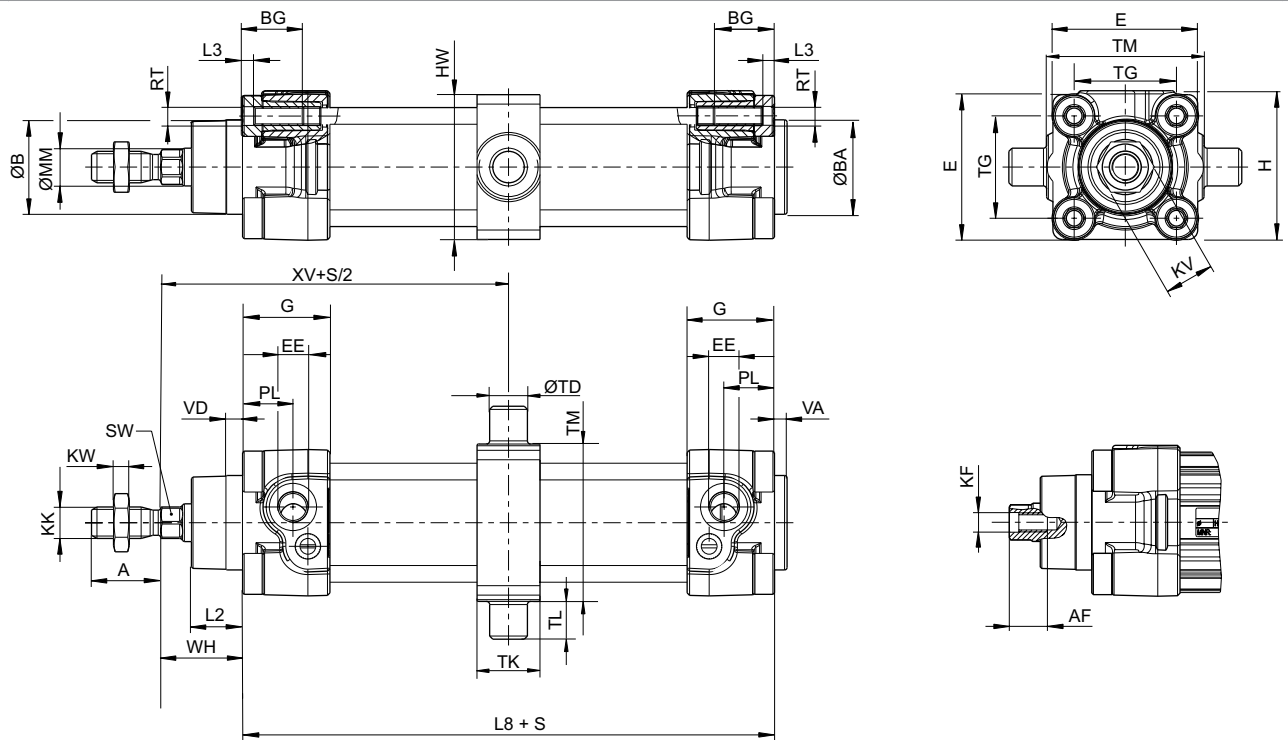
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Cushioning diagram



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

Dimensions



S = stroke

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Piston Ø	A -2	AF+1	ØB d11	ØBA d11	BG min.	E	EE	G	H	HW	KF
32	22	12	30	30	16	46.5	G1/8	27.75	47.5	56	M6
40	24	13.5	35	35	16	53	G1/4	33.25	53	59	M8
50	32	17	40	40	16	65	G1/4	31	65	69	M10
63	32	17	45	45	16	75	G3/8	38.25	75	84	M10
80	40	21	45	45	17	95	G3/8	38.25	95	102	M12
100	40	21	55	55	17	115	G1/2	42.25	115	125	M12
125	54	28	60	60	20	140	G1/2	53.85	140	160	M16

Piston Ø	KK	KV	KW	ØMM f8	PL	L2	L3 ±0,5	L8	RT	SW	TG
32	M10x1,25	16	5	12	16	16.25	4.5	94±0,4	M6	10	32,5±0,5
40	M12x1,25	18	6	16	20	18.25	4.5	105±0,7	M6	13	38±0,5
50	M16x1,5	24	8	20	19	25	4.5	106±0,7	M8	17	46,5±0,6
63	M16x1,5	24	8	20	24	25	4.5	121±0,8	M8	17	56,5±0,7
80	M20x1,5	30	10	25	23.5	33	0	128±0,8	M10	22	72±0,7
100	M20x1,5	30	10	25	25	36	0	138±1	M10	22	89±0,7
125	M27x2	41	13.5	32	33	45	0	160±1	M12	27	110±1,1

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