

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	125 mm
Stroke	500 mm
Ports	G 1/2
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	M27x2
Piston rod	through
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Retracting piston force	7220 N
Extracting piston force	7220 N
Min. ambient temperature	-20 °C
Max. ambient temperature	80 °C
Min. working pressure	1.5 bar

Tie rod cylinder ISO 15552, Series TRB

7472412269

series TRB

2026-07-19

Max. working pressure	10 bar
Weight 0 mm stroke	9 kg
Weight +10 mm stroke	0.26 kg
Stroke max.	1500 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/m ³
Max. oil content of compressed air	5 mg/m ³

Material

Piston rod	Stainless Steel
Scraper material	Polyurethane
Material tie-rod	Steel, chrome-plated
Seal material	Polyurethane
Material, front cover	Die-cast aluminum
Cylinder tube	Aluminum
End cover	Die-cast aluminum
Nut for piston rod	Steel, chrome-plated
Part No.	7472412269

Technical information

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

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

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

Piston Ø	ZM
32	146+3/-1,5
40	165+3/-1,5
50	180+3/-1,5
63	195+3/-1,5
80	220+3/-1,5
100	240+3,5/-2
125	290+3,5/-2