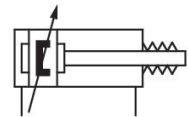


ISO 15552, series PRA

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.

Compact design with integrated sensor slot

- 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	100 mm
Stroke	125 mm
Ports	G 1/2
Functional principle	Double-acting
Cushioning	Pneumatic adjustable cushioning
Magnetic piston	With magnet
Environmental requirements	Industry standard
Piston rod thread - type	External thread
Piston rod thread	M20x1,5
Piston rod	single
Cylinder special features	Bellows
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Retracting piston force	4635 N
Extracting piston force	4945 N
Min. ambient temperature	-20 °C
Max. ambient temperature	80 °C

Tie rod cylinder ISO 15552, Series TRB

R481602187

series TRB

2026-07-19

Min. working pressure	1.5 bar
Max. working pressure	10 bar
Max. speed	0.7 m/s
Cushioning length	19.5 mm
Cushioning energy	88 J
Stroke max.	1000 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	Galvanized 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
Bellow	Carboxylated nitrile rubber
Part No.	R481602187

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.

Tie rod cylinder ISO 15552, Series TRB

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series TRB

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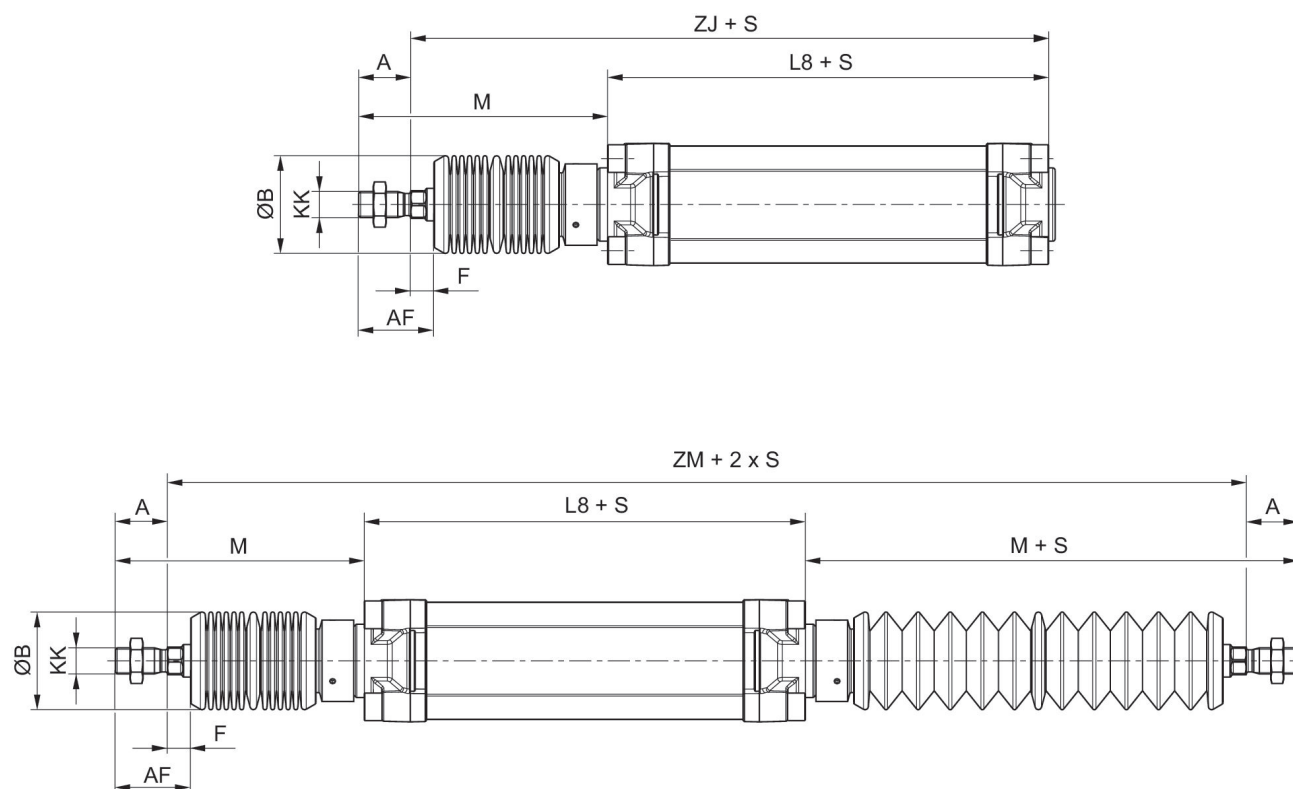
Tie rod cylinder ISO 15552, Series TRB

R481602187

series TRB

2026-07-19

Dimensions



S = stroke

	A	Ø B	KK	L8	AF	F
R481602131	22	42	M10x1.25	94	34	12
R481602139	24	42	M12x1.25	105	39	15
R481602150	32	64	M16x1,5	106	47	15
R481602161	32	64	M16x1,5	121	47	15
R481602172	40	64	M20x1,5	128	57	17
R481602183	40	64	M20x1,5	138	57	17
R481602194	54	94	M27x2	160	71	17

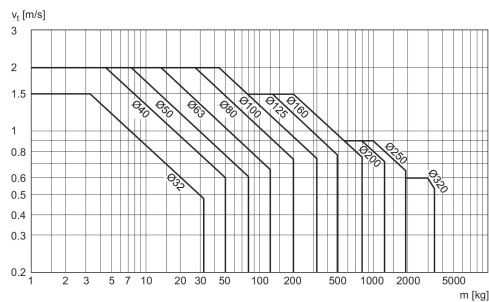
Stroke-dependent dimensions

Piston Ø	S=0-75 M	S=0-75 ZJ	S=0-75 ZM	S=76-150 M	S=76-150 ZJ	S=76-150 ZM	S=151-250 M	S=151-250 ZJ	S=151-250 ZM	S=251-5000 M
32	81	153	212	107	179	264	127	199	304	–
40	138	219	333	138	219	333	138	219	333	218
50	153	227	348	153	227	348	153	227	348	233
63	153	242	363	153	242	363	153	242	363	233
80	170	258	388	170	258	388	170	258	388	250
100	160	258	378	160	258	378	160	258	378	220
125	188	294	418	188	294	428	188	294	428	248

Piston Ø	S=251-500 ZJ	S=251-500 ZM	S=501-750 M	S=501-750 ZJ	S=501-750 ZM	S=751-1000 M	S=751-1000 ZJ	S=751-1000 ZM
32	–	–	–	–	–	–	–	–
40	299	493	–	–	–	–	–	–
50	307	508	313	387	668	–	–	–
63	322	523	313	402	683	394	483	845
80	338	548	330	418	708	411	499	870
100	318	498	280	378	618	340	438	738
125	354	548	308	414	668	368	474	788

S = stroke

Cushioning diagram



v_1 = Piston velocity [m/s] m = Cushionable mass [kg]