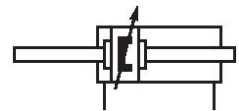


AVENTICS Series TRB Tie rod cylinders (ISO 15552)

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.



Technical data

Industry	Industrial
Piston Ø	125 mm
Stroke	228.6 mm
Ports	1/2 NPT
Functional principle	Double-acting
Cushioning	Pneumatic adjustable cushioning
Magnetic piston	Piston with magnet
Environmental requirements	Industry standard ATEX optional
Piston rod thread - type	External thread
Piston rod thread	1-14 UNF
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	2 bar
Max. working pressure	10 bar
Cushioning length	22 mm

Tie rod cylinder ISO 15552, Series TRB - inch

TRB

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Cushioning energy	140 J
Weight 0 mm stroke	9 kg
Weight +10 mm stroke	0.26 kg
Stroke max.	2750 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

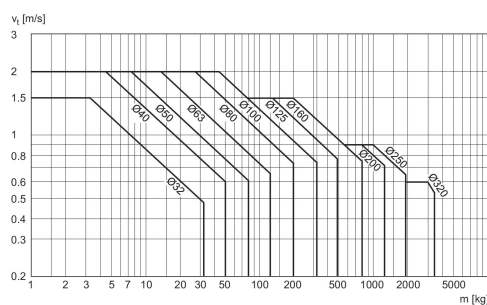
Piston rod	Stainless Steel
Scraper material	Polyurethane
Material tie-rod	Steel, chrome-plated
Seal material	Polyurethane
Material, front cover	Die-cast aluminum
Cylinder tube	Aluminum
End cover	Die-cast aluminum
Nut for piston rod	Steel, chrome-plated
Part No.	R480177364

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.

Cushioning diagram



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

Tie rod cylinder ISO 15552, Series TRB - inch

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Overview drawing



NOTE: This overview drawing is only for orientation to indicate where the various accessory parts can be fastened to the cylinder. The illustration has been simplified for this purpose. It is thus not possible to derive the dimensions from this overview.

Tie rod cylinder ISO 15552, Series TRB - inch

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Dimensions



S = stroke

Tie rod cylinder ISO 15552, Series TRB - inch

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Dimensions in inches

Part No. Ø [mm]	Ø [inch]	A -0,08	ØB d11	BG min.	E	EE	KK	G	H	KV
32	1 1/4	0.87	1.18	0.63	1.83	1/8 NPT	7/16 - 20 UNF	1.09	1.87	0.63
40	1 1/2	0.94	1.38	0.63	2.09	1/4 NPT	1/2 - 20 UNF	1.31	2.09	0.71
50	2	1.26	1.57	0.63	2.56	1/4 NPT	3/4 - 16 UNF	1.22	2.56	0.94
63	2 1/2	1.26	1.77	0.63	2.95	3/8 NPT	3/4 - 16 UNF	1.22	2.95	0.94
80	3	1.57	1.77	0.67	3.74	3/8 NPT	3/4 - 16 UNF	1.51	3.74	1.18
100	4	1.57	2.17	0.67	4.53	1/2 NPT	3/4 - 16 UNF	1.51	4.53	1.18
125	5	2.13	2.36	0.79	5.51	1/2 NPT	1 - 14 UNF	1.66	5.51	1.61

Part No. Ø [mm]	KW	ØMM f8	PL	L2	L3 ±0,02	L8	RT	SW	TG	VD
32	0.2	0.47	0.63	0.64	0.18	3.7±0.02	M6	0.39	1.28±0.02	0.2
40	0.24	0.63	0.79	0.72	0.18	4.13±0.03	M6	0.51	1.5±0.02	0.2
50	0.31	0.79	0.75	0.98	0.18	4.17±0.03	M8	0.67	1.83±0.02	0.2
63	0.31	0.79	0.94	0.98	0.18	4.76±0.03	M8	0.67	2.22±0.03	0.2
80	0.39	0.98	0.93	1.3	0	5.04±0.03	M10	0.87	2.83±0.03	0.2
100	0.39	0.98	0.98	1.42	0	5.43±0.04	M10	0.87	3.5±0.03	0.2
125	0.53	1.26	1.3	1.77	0	6.3±0.04	M12	1.06	4.33±0.04	0.28

Part No. Ø [mm]	WH	ZM
32	26±1.4	5.75±0.12/0.06
40	30±1.4	6.5±0.12/0.06
50	37±1.4	7.09±0.12/0.06
63	37±1.8	7.68±0.12/0.06
80	46±1.8	8.66±0.12/0.06
100	51±1.8	9.45±0.08/0.08
125	65±2.2	11.42±0.08/0.08