

Cilindri a tiranti AVENTICS Serie TRB (ISO 15552)

I cilindri AVENTICS Serie TRB (ISO 15552) sono tra i più utilizzati nei settori in cui sono richiesti cilindri per impieghi pesanti, come legno e alluminio, acciaio e settore automobilistico, macchinari per impieghi gravosi e miniere, solo per citarne alcuni.



Dati tecnici

Settore	Industria
Ø pistone	100 mm
Corsa	254 mm
Raccordi	1/2 NPT
Principio attivo	a doppio effetto
Ammortizzamento	ammortizzamento a regolazione pneumatica
Pistone magnetico	Pistone con magnete
Requisiti ambientali	Standard industriale opzionalmente in ATEX
Filettatura asta pistone - tipo	filettatura esterna
Filettatura asta pistone	3/4-16 UNF
Asta pistone	unilaterale
Raschia-asta	Raschia-asta industriale standard
Pressione per determinare le forze del pistone	6,3 bar
Forza del pistone in entrata	4635 N
Forza del pistone in uscita	4945 N
Temperatura ambiente min.	-20 °C
Temperatura ambiente max.	80 °C
Pressione di esercizio min.	2 bar
Pressione di esercizio max	10 bar

Lunghezza di ammortizzamento	19.5 mm
Energia di ammortizzamento	88 J
Peso corsa da 0 mm	3.16 kg
Peso corsa da +10 mm	0.065 kg
Corsa max.	2800 mm
Fluido	Aria compressa
Temperatura del fluido min.	-20 °C
Temperatura del fluido max.	80 °C
Dimensione max. particella	50 µm
Contenuto di olio dell'aria compressa min.	0 mg/m ³
Contenuto di olio dell'aria compressa max.	5 mg/m ³

Materiale

Asta pistone	Acciaio inox
Materiale raschia-asta	Poliuretano
Materiale tiranti	Acciaio, cromato
Materiale guarnizioni	Poliuretano
Materiale coperchio anteriore	alluminio pressofuso
Canna del cilindro	Alluminio
Coperchio terminale	alluminio pressofuso
Dado per asta pistone	Acciaio, cromato
Codice	R480177278

Informazioni tecniche

Il punto di rugiada in pressione deve essere inferiore alla temperatura ambiente e a quella del fluido di almeno 15 °C e non superare il valore di 3 °C .

Il contenuto di olio dell'aria compressa deve rimanere costante per tutta la durata.

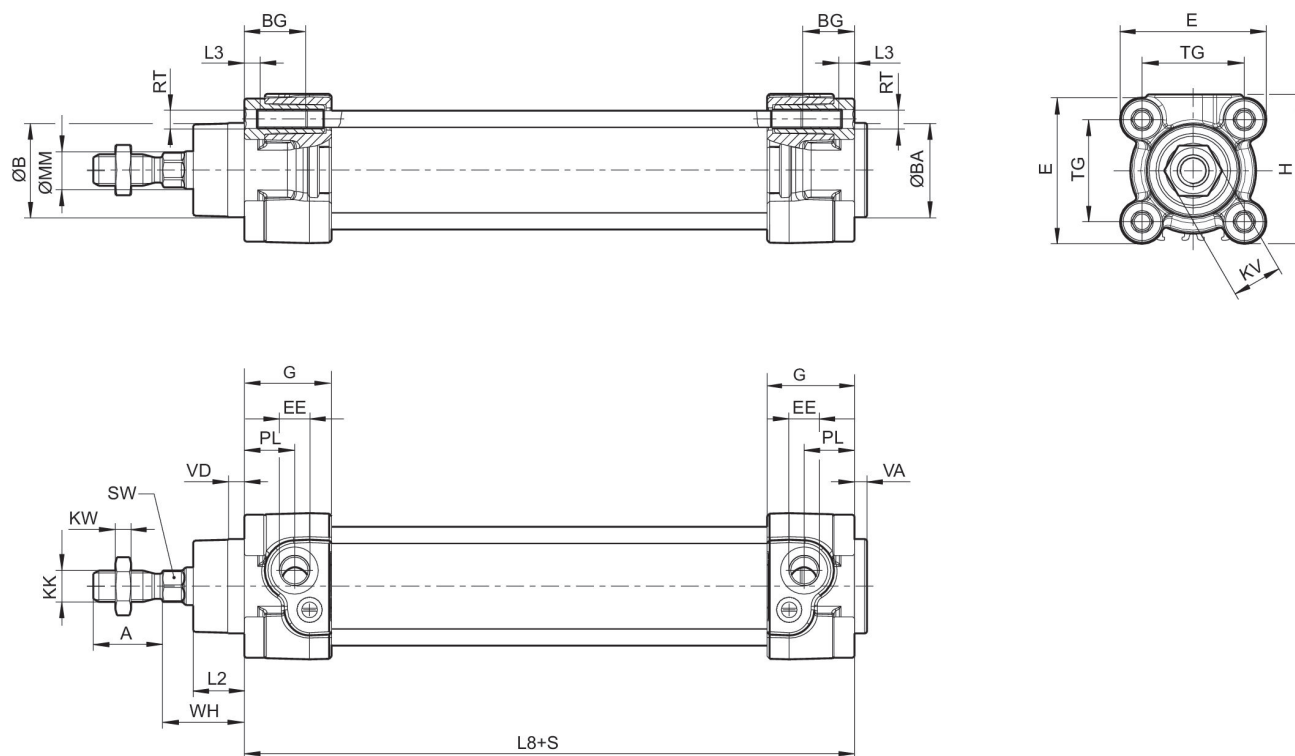
Cilindro a tiranti ISO 15552, Serie TRB - inch

R480177278

TRB

2026-07-20

Dimensioni in pollici



S = corsa

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Dimensioni in pollici

Ø [mm]	Ø [inch]	A -0,08	ØB d11	ØBA d11	BG min.	E	EE	KK	G	H
32	1 1/4	0.87	1.18	1.18	0.63	1.83	1/8 NPT	7/16 - 20 UNF	1.09	1.87
40	1 1/2	0.94	1.38	1.38	0.63	2.09	1/4 NPT	1/2 - 20 UNF	1.31	2.09
50	2	1.26	1.57	1.57	0.63	2.56	1/4 NPT	3/4 - 16 UNF	1.22	2.56
63	2 1/2	1.26	1.77	1.77	0.63	2.95	3/8 NPT	3/4 - 16 UNF	1.51	2.95
80	3	1.57	1.77	1.77	0.67	3.74	3/8 NPT	3/4 - 16 UNF	1.51	3.74
100	4	1.57	2.17	2.17	0.67	4.53	1/2 NPT	3/4 - 16 UNF	1.66	4.53
125	5	2.13	2.36	2.36	0.79	5.51	1/2 NPT	1 - 14 UNF	2.12	5.51

Ø [mm]	KV	KW	ØMM f8	PL	L2	L3 ±0,02	L8	RT	SW	TG
32	0.63	0.2	0.47	0.63	0.64	0.18	3.7±0.02	M6	0.39	1.28±0.02
40	0.71	0.24	0.63	0.79	0.72	0.18	4.13±0.03	M6	0.51	1.5±0.02
50	0.94	0.31	0.79	0.75	0.98	0.18	4.17±0.03	M8	0.67	1.83±0.02
63	0.94	0.31	0.79	0.94	0.98	0.18	4.76±0.03	M8	0.67	2.22±0.03
80	1.18	0.39	0.98	0.93	1.3	0	5.04±0.03	M10	0.87	2.83±0.03
100	1.18	0.39	0.98	0.98	1.42	0	5.43±0.04	M10	0.87	3.5±0.03
125	1.61	0.53	1.26	1.3	1.77	0	6.3±0.04	M12	1.06	4.33±0.04

Ø [mm]	VA -0,04	VD	WH
32	0.16	0.2	1.02±0.06
40	0.16	0.2	1.18±0.06
50	0.16	0.2	1.46±0.06
63	0.16	0.2	1.46±0.07
80	0.16	0.2	1.81±0.07
100	0.16	0.2	2.01±0.07
125	0.24	0.28	2.56±0.09

Diagramma di ammortizzamento



v_1 = velocità pistone [m/s] m = massa ammortizzabile [kg]

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This diagram illustrates the assembly of a mechanical system, likely a hydraulic cylinder or actuator. The components are arranged in a hierarchical, exploded view, showing their relative positions and assembly sequence. The main components include:

- JP1**: A large, square, flange-mounted component at the top left.
- MS1**: A small, rectangular, flange-mounted component.
- MF1/2**: A rectangular component with a circular port.
- MT5/6**: A rectangular component with a circular port.
- AT4**: A small, rectangular component with a circular port.
- CS7**: A small, rectangular component with a circular port.
- AB6**: A small, rectangular component with a circular port.
- MP9**: A small, rectangular component with a circular port.
- MP6**: A small, rectangular component with a circular port.
- MP4**: A small, rectangular component with a circular port.
- MP2**: A small, rectangular component with a circular port.
- AA4**: A small, rectangular component with a circular port.
- AB7**: A small, rectangular component with a circular port.
- CC02/04**: A small, rectangular component with a circular port.
- QR1/2**: A small, rectangular component with a circular port.
- TRB -Inch**: A large, cylindrical component with a central rod.
- LU1/2**: A small, rectangular component with a circular port.
- HU1**: A small, rectangular component with a circular port.
- LU6**: A large, rectangular component with a circular port.
- MT4**: A small, rectangular component with a circular port.
- AT4**: A small, rectangular component with a circular port.
- ST6**: A small, rectangular component with a circular port.
- SN6**: A small, rectangular component with a circular port.
- SM6**: A small, rectangular component with a circular port.
- MS1**: A small, rectangular component with a circular port.
- MF1/2**: A rectangular component with a circular port.
- MT5/6**: A rectangular component with a circular port.
- GU1**: A small, rectangular component with a circular port.
- GH1/2**: A small, rectangular component with a circular port.

The diagram shows the assembly of these components into a single unit, with lines indicating the assembly path and the final configuration.

