SERIES PRA AND TRB
ISO 15552 PNEUMATIC CYLINDERS FROM AVENTICS
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Pneumatic ISO 15552 Cylinders

The next generation of ISO cylinders from AVENTICS

The Series PRA and TRB cylinder series represent consistent further development of our proven ISO cylinder designs. They offer the classic solution for numerous tasks and applications in nearly all industries—available worldwide to a uniform standard. The latest series are considerably lighter, more efficient and have superior cushioning design—taking full advantage of the AVENTICS Ideal Cushioning technology.

Bore sizes: 32—125mm (1-1/4”—5”)
Stroke range: 1—2800mm or 1—110”
Working pressure: 22 to 145psi (1.5 to 10 bar)
Temperature range: -4°F to +175°F (-20°C to +80°C) / heat resistant version to +300°F (+150°C)

Specifications for both PRA (PRofile Advanced) and TRB (Tie Rod Basic):

These products are included in the AVENTICS Quick Ship focused delivery program. For details on the program and the part numbers included, visit: www.aventics.com/us/QuickShipPRA-TRB
Standard cylinders - setting new standards

Advantages that pay off
Improved pneumatic cushioning stands out among the many advantages that distinguish this new ISO cylinder generation. It improves control characteristics through a more precise adjustment of the cushioning screw and allows shorter cycle times due to higher air discharge volumes. "Ideal" cushioning also reduces vibration and noise to a minimum.

- Reduced weight as a design with optimized material usage allows for most cost-effective machine construction
- Standardized dimensions, connection dimensions and mounting accessories according to DIN ISO 15552 for manufacturer independent machine construction
- Flexibility of profile or tie rod versions
- Better control characteristics and shorter cycle times due to ideal cushioning
- Precise, simple cushioning adjustment
- Can be used with the AVENTICS Velocity-Time Meter to fine-tune your installation and take full advantage of ideal cushioning technology
- Improved absorption of residual energy due to elastic cushioning element for less vibration and lower noise. Less vibration contributes to longer life of components
- Reinforced piston for high performance with consistent quality and long life
- Numerous space-saving mounting options for sensors and proximity switches for high level of flexibility
- Choose metric, or inch versions with stroke and rod threads in inches plus ports with NPT threads.
- Improved configurator and CAD applications in the AVENTICS online catalog enable fast, easy configuration and machine planning — also for additional options, accessories and spare parts.
Variants, accessories, sensors

1. Range of variants, standard and configurable versions

Standard PRA/TRB versions: with magnetic piston, with or without pneumatic cushioning, with single or double end piston rod, heat resistant, low friction version, ATEX, metric or inch versions. Additional TRB standard version: trunnion mounting.

Configurable PRA/TRB versions: extended piston rod, single or double end piston rod, metal scraper, modular screw-in bearing, heat resistant up to 300°F, low friction version, guide unit, trunnion mounting, metric or inch versions. Additional TRB feature: metal piston (X sensor).

2. Comprehensive accessories*

Further contacts:
www.aventics.com/en/contact

The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

3. Sensors selection

Series ST4 for direct mounting to PRA.
Series ST6 for direct mounting to PRA.
Series ST6 with clamp mounting for TRB.

*Consult online catalog for more accessories, this is overview only.