

## 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                               | 32 mm                              |
| Stroke                                 | 250 mm                             |
| Ports                                  | G 1/8                              |
| Functional principle                   | Double-acting                      |
| Cushioning                             | elastic cushioning                 |
| Magnetic piston                        | With magnet                        |
| Environmental requirements             | Industry standard<br>ATEX optional |
| Piston rod thread - type               | External thread                    |
| Piston rod thread                      | M10x1,25                           |
| Piston rod                             | single                             |
| Scraper                                | Standard Industry Scraper          |
| Pressure for determining piston forces | 6,3 bar                            |
| Retracting piston force                | 435 N                              |
| Extracting piston force                | 505 N                              |
| Min. ambient temperature               | -20 °C                             |
| Max. ambient temperature               | 80 °C                              |
| Min. working pressure                  | 1.5 bar                            |

# Tie rod cylinder ISO 15552, Series TRB

0822340618

series TRB

2026-07-19

|                                    |                     |
|------------------------------------|---------------------|
| Max. working pressure              | 10 bar              |
| Impact energy                      | 0.4 J               |
| Weight 0 mm stroke                 | 0.46 kg             |
| Weight +10 mm stroke               | 0.024 kg            |
| Stroke max.                        | 1600 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 <sup>3</sup> |
| Max. oil content of compressed air | 5 mg/m <sup>3</sup> |

## Material

|                       |                      |
|-----------------------|----------------------|
| Piston rod            | Stainless Steel      |
| Scraper material      | Polyurethane         |
| Material tie-rod      | Stainless 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 |
| Part No.              | 0822340618           |

## 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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## Dimensions



S = stroke

\*) For cylinders with optional piston rod with internal thread

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| Piston Ø | A -2 | AF+1 | ØB d11 | ØBA d11 | BG min. | E    | EE    | G     | H    | KF  |
|----------|------|------|--------|---------|---------|------|-------|-------|------|-----|
| 32       | 22   | 12   | 30     | 30      | 16      | 46.5 | G 1/8 | 27.75 | 47.5 | M6  |
| 40       | 24   | 13.5 | 35     | 35      | 16      | 53   | G 1/4 | 33.25 | 53   | M8  |
| 50       | 32   | 17   | 40     | 40      | 16      | 65   | G 1/4 | 31    | 65   | M10 |
| 63       | 32   | 17   | 45     | 45      | 16      | 75   | G 3/8 | 38.25 | 75   | M10 |
| 80       | 40   | 21   | 45     | 45      | 17      | 95   | G 3/8 | 38.25 | 95   | M12 |
| 100      | 40   | 21   | 55     | 55      | 17      | 115  | G 1/2 | 42.25 | 115  | M12 |
| 125      | 54   | 28   | 60     | 60      | 20      | 140  | G 1/2 | 53.85 | 140  | M16 |

| Piston Ø | KK       | KV | KW   | ØMM f8 | PL   | L2    | L3 ±0,5 | L8      | RT  | SW |
|----------|----------|----|------|--------|------|-------|---------|---------|-----|----|
| 32       | M10x1,25 | 16 | 5    | 12     | 16   | 16.25 | 4.5     | 94±0,4  | M6  | 10 |
| 40       | M12x1,25 | 18 | 6    | 16     | 20   | 18.25 | 4.5     | 105±0,7 | M6  | 13 |
| 50       | M16x1,5  | 24 | 8    | 20     | 19   | 25    | 4.5     | 106±0,7 | M8  | 17 |
| 63       | M16x1,5  | 24 | 8    | 20     | 24   | 25    | 4.5     | 121±0,8 | M8  | 17 |
| 80       | M20x1,5  | 30 | 10   | 25     | 23.5 | 33    | 0       | 128±0,8 | M10 | 22 |
| 100      | M20x1,5  | 30 | 10   | 25     | 25   | 36    | 0       | 138±1   | M10 | 22 |
| 125      | M27x2    | 41 | 13.5 | 32     | 33   | 45    | 0       | 160±1   | M12 | 27 |

| Piston Ø | TG       | VA -1 | VD | WH     |
|----------|----------|-------|----|--------|
| 32       | 32,5±0,5 | 4     | 5  | 26±1,4 |
| 40       | 38±0,5   | 4     | 5  | 30±1,4 |
| 50       | 46,5±0,6 | 4     | 5  | 37±1,4 |
| 63       | 56,5±0,7 | 4     | 5  | 37±1,8 |
| 80       | 72±0,7   | 4     | 5  | 46±1,8 |
| 100      | 89±0,7   | 4     | 5  | 51±1,8 |
| 125      | 110±1,1  | 6     | 7  | 65±2,2 |