## Profile cylinder NFPA, TaskMaster®, Series TM5 R480698504

AVENTICS Series TaskMaster Profile Cylinders

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The AVENTICS Series TM5 TaskMaster is an NFPA compatible cylinder available in profile and tie-rod constructions with five bore sizes. Built to perform in the most demanding applications, the pneumatic cylinder has been enhanced with ideal cushioning. This helps to achieve improved cycle time, reduced wear and vibration, providing the best-in-class solution in industrial applications. Its rugged, non-corroding aluminum body construction and high-strength steel piston rod are paired with a complete range of standard precision-machined mountings.



### Technical data Industry Standards Type

Piston Ø Stroke Ports Functional principle Cushioning Magnetic piston Piston rod thread - type Piston rod thread - type Piston rod thread Pressure for determining piston forces Retracting piston force Extracting piston force Min. ambient temperature Max. ambient temperature Min. working pressure Industrial NFPA Bore size: Ø 1-1/2" - 4" Built-in mounting: NFPA MX5 Piston rod thread KK1 50.8 mm 609.6 mm 3/8" NPTF Double-acting Pneumatically with magnetic piston External thread 7/16-20 UNF [[90] psi] 943.06 N 1258.9 N -23.33 °C 73.88 °C 1.38 bar 10 bar



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|                         |                | Profile    |
|-------------------------|----------------|------------|
| Max. speed              | 2 m/s          | Cylinders  |
| Medium                  | Compressed air | 5          |
| Min. medium temperature | -23.33 °C      | 2024-04-15 |
| Max. medium temperature | 73.88 °C       |            |

#### Material

| Piston rod            | Carbon steel        |
|-----------------------|---------------------|
| Scraper material      | Polyurethane        |
| Material, front cover | Die-cast aluminum   |
| Cylinder tube         | Aluminum            |
| End cover             | Die-cast aluminum   |
| Piston seal           | Nitrile rubber      |
| Cylinder tube seal    | Polyester elastomer |
| Rod bearing           | Sintered bronze     |
| Cushion ring          | Polyurethane        |
| Nut for piston rod    | Carbon steel        |
| Part No.              | R480698504          |

## **Technical information**

The pressure dew point must be at least 15  $^\circ C$  less than ambient and medium temperature and may not exceed 3  $^\circ C.$ 

The oil content of compressed air must remain constant during the life cycle.

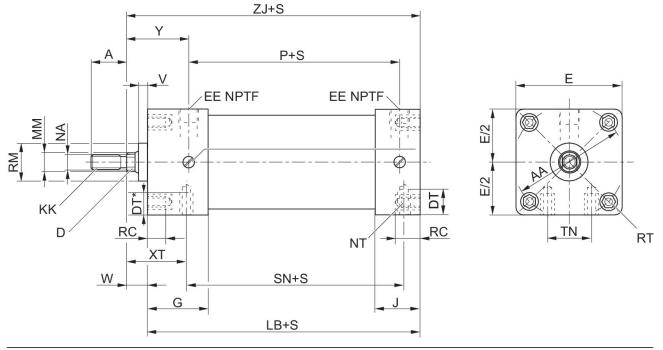


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**Dimensions in inches** 



S = stroke

# Dimensions not affected by rod diameter

| Ø [inch] | E    | G    | J    | Р    | V    | AA   | LB   | RC   | RT      |
|----------|------|------|------|------|------|------|------|------|---------|
| 1 1/2    | 2.00 | 1.4  | 1.08 | 2.85 | 0.25 | 2.02 | 4.00 | 0.47 | 1/4-28  |
| 2        | 2.50 | 1.22 | 1.05 | 2.90 | 0.25 | 2.60 | 4.00 | 0.50 | 5/16-24 |
| 2 1/2    | 3.00 | 1.33 | 1.04 | 2.94 | 0.25 | 3.10 | 4.12 | 0.50 | 5/16-24 |
| 3.25     | 3.75 | 1.64 | 1.22 | 3.46 | 0.25 | 3.90 | 4.88 | 0.53 | 3/8-24  |
| 4        | 4.5  | 1.55 | 1.22 | 3.50 | 0.25 | 4.7  | 4.88 | 0.62 | 3/8-24  |

| Ø [inch] | SN   |
|----------|------|
| 1 1/2    | 2.75 |
| 2        | 2.75 |
| 2 1/2    | 2.88 |
| 3.25     | 3.38 |
| 4        | 3.38 |

# Dimensions affected by rod diameter

| Ø [inch] | MM    | W    | EE  | RM   | ZJ   | А    | D     | Y    |
|----------|-------|------|-----|------|------|------|-------|------|
| 1 1/2    | 0.625 | 0.63 | 3/8 | 1.12 | 4.63 | 0.75 | 0.5   | 1.35 |
| 2        | 0.625 | 0.63 | 3/8 | 1.12 | 4.63 | 0.75 | 0.5   | 1.26 |
| 2 1/2    | 0.625 | 0.63 | 3/8 | 1.12 | 4.75 | 0.75 | 0.5   | 1.36 |
| 3 1/4    | 1     | 0.75 | 1/2 | 1.5  | 5.63 | 1.12 | 0.875 | 1.66 |



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|--|----|------|-----|-----|------|------|-------|------|---|
| Ø [inch]   | MM | W    | EE  | RM  | ZJ   | А    | D     | Y    | Cylinders                                   |
| 4  | 1  | 0.75 | 1/2 | 1.5 | 5.63 | 1.12 | 0.875 | 1.59 | yiiilders                                   |
|  |    |      |     |     |      |      |       |      | 2024-04-15                                  |

