

# Profilzylinder NFPA, TaskMaster®, Serie TM5

R480698979

AVENTICS  
Serie  
TaskMaster  
Profilzylinder

2024-04-15

## AVENTICS Serie TaskMaster Profilzylinder

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.



## Technische Daten

|                                       |                                                                                                  |
|---------------------------------------|--------------------------------------------------------------------------------------------------|
| Branche                               | Industrie                                                                                        |
| Normen                                | NFPA                                                                                             |
| Bauart                                | Bohrungsdurchmesser: Ø 1-1/2" - 4"<br>Anschraubbefestigung: NFPA MS4<br>Kolbenstangengewinde KK2 |
| Kolben-Ø                              | 38.1 mm                                                                                          |
| Hub                                   | 457.2 mm                                                                                         |
| Anschlüsse                            | 3/8" NPTF                                                                                        |
| Wirkprinzip                           | doppeltwirkend                                                                                   |
| Dämpfung                              | pneumatisch                                                                                      |
| Magnetkolben                          | mit Magnetkolben                                                                                 |
| Kolbenstangengewinde - Typ            | Außengewinde                                                                                     |
| Kolbenstangengewinde                  | 1/2-20 UNF                                                                                       |
| Druck zur Bestimmung der Kolbenkräfte | 90 psi                                                                                           |
| Kolbenkraft einfahrend                | 391.46 N                                                                                         |
| Kolbenkraft ausfahrend                | 707.3 N                                                                                          |
| Umgebungstemperatur min.              | -23.33 °C                                                                                        |
| Umgebungstemperatur max.              | 73.88 °C                                                                                         |
| Betriebsdruck min.                    | 1.38 bar                                                                                         |
| Betriebsdruck max.                    | 10 bar                                                                                           |

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|                        |           |
|------------------------|-----------|
| Geschwindigkeit max.   | 2 m/s     |
| Medium                 | Druckluft |
| Mediumstemperatur min. | -23.33 °C |
| Mediumstemperatur max. | 73.88 °C  |

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## Werkstoff

|                         |                     |
|-------------------------|---------------------|
| Kolbenstange            | Kohlenstoffstahl    |
| Werkstoff Abstreifer    | Polyurethan         |
| Werkstoff Deckel vorne  | Aluminium-Druckguss |
| Zylinderrohr            | Aluminium           |
| Deckel hinten           | Aluminium-Druckguss |
| Kolbendichtung          | Nitril-Kautschuk    |
| Zylinderrohrdichtung    | Polyester-Elastomer |
| Lagerschale             | Sinterbronze        |
| Dämpfungsring           | Polyurethan         |
| Mutter für Kolbenstange | Kohlenstoffstahl    |
| Materialnummer          | R480698979          |

## Technische Informationen

Der Drucktaupunkt muss mindestens 15 °C unter der Umgebungs- und Mediumstemperatur liegen und darf max. 3 °C betragen.

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Abmessungen in inch



S = Hub

## Kolbenstangenabhängige Maße

| Ø [inch] | MM    | W    | EE  | RM   | DT   | ZJ   | A    | D     | Y    |
|----------|-------|------|-----|------|------|------|------|-------|------|
| 1 1/2    | 0.625 | 0.63 | 3/8 | 1.12 | 0.31 | 4.63 | 0.75 | 0.5   | 1.35 |
| 2        | 0.625 | 0.63 | 3/8 | 1.12 | 0.34 | 4.63 | 0.75 | 0.5   | 1.26 |
| 2 1/2    | 0.625 | 0.63 | 3/8 | 1.12 | 0.44 | 4.75 | 0.75 | 0.5   | 1.36 |
| 3 1/4    | 1     | 0.75 | 1/2 | 1.5  | 0.50 | 5.63 | 1.12 | 0.875 | 1.66 |
| 4        | 1     | 0.75 | 1/2 | 1.5  | 0.64 | 5.63 | 1.12 | 0.875 | 1.59 |

| Ø [inch] | XT   |
|----------|------|
| 1 1/2    | 1.44 |
| 2        | 1.44 |
| 2 1/2    | 1.44 |
| 3 1/4    | 1.69 |
| 4        | 1.69 |

## Kolbenstangenunabhängige Maße

| Ø [inch] | E    | G    | J    | P    | V    | AA   | LB   | NT      | RC   |
|----------|------|------|------|------|------|------|------|---------|------|
| 1 1/2    | 2.00 | 1.4  | 1.08 | 2.85 | 0.25 | 2.02 | 4.00 | 1/4-20  | 0.47 |
| 2        | 2.50 | 1.22 | 1.05 | 2.90 | 0.25 | 2.60 | 4.00 | 5/16-18 | 0.50 |
| 2 1/2    | 3.00 | 1.33 | 1.04 | 2.94 | 0.25 | 3.10 | 4.12 | 3/8-16  | 0.50 |
| 3.25     | 3.75 | 1.64 | 1.22 | 3.46 | 0.25 | 3.90 | 4.88 | 1/2-13  | 0.53 |

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| Ø [inch] | E   | G    | J    | P    | V    | AA  | LB   | NT     | RC         |
|----------|-----|------|------|------|------|-----|------|--------|------------|
| 4        | 4.5 | 1.55 | 1.22 | 3.50 | 0.25 | 4.7 | 4.88 | 1/2-13 | 2024-04-15 |

| Ø [inch] | RT      | SN   | TN   |
|----------|---------|------|------|
| 1 1/2    | 1/4-28  | 2.75 | 0.63 |
| 2        | 5/16-24 | 2.75 | 0.88 |
| 2 1/2    | 5/16-24 | 2.88 | 1.25 |
| 3.25     | 3/8-24  | 3.38 | 1.5  |
| 4        | 3/8-24  | 3.38 | 2.06 |

