

# Profilzylinder NFPA, TaskMaster®, Serie TM5

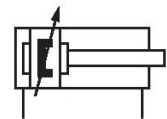
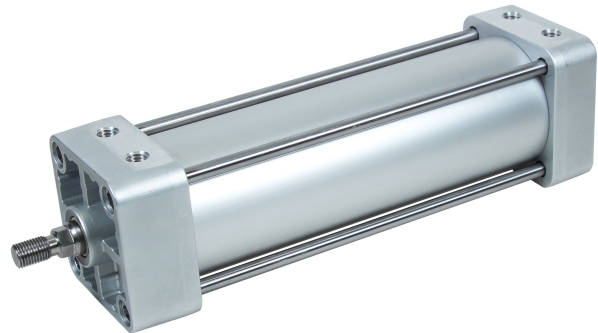
R480698962

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"

Anschraubbefestigung: NFPA MS4

Kolbenstangengewinde KK1

Kolben-Ø

101.6 mm

Hub

304.8 mm

Anschlüsse

1/2 NPTF

Wirkprinzip

doppeltwirkend

Dämpfung

pneumatisch

Magnetkolben

mit Magnetkolben

Kolbenstangengewinde - Typ

Außengewinde

Kolbenstangengewinde

3/4-16 UNF

Druck zur Bestimmung der Kolbenkräfte

90 psi

Kolbenkraft einfahrend

4715.3 N

Kolbenkraft ausfahrend

5031.14 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  |

2024-04-15

## 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          | R480698962          |

## Technische Informationen

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

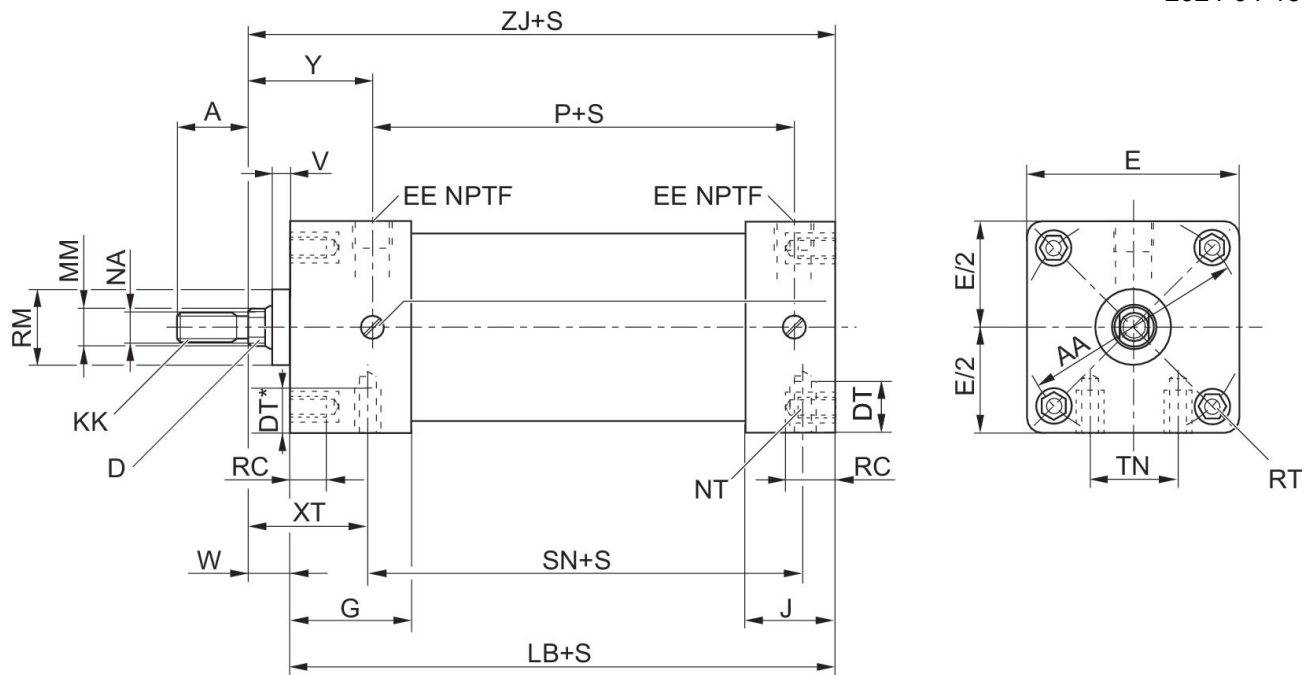
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Abmessungen in inch



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 |

