R480698523

AVENTICS Series TaskMaster Profile Cylinders

# <u>AVENTICS Series TaskMaster Profile</u> Cylinders

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 Industrial Standards NFPA

Type Bore size: Ø 1-1/2" - 4"

Built-in mounting: NFPA MX5

Piston rod thread KK1

Piston Ø 82.55 mm

Stroke 127 mm

Ports 1/2 NPTF

Functional principle Double-acting

Cushioning Pneumatically

Magnetic piston with magnetic piston

Piston rod thread - type External thread

Piston rod thread 3/4-16 UNF
Pressure for determining piston forces [[90] psi]

Retracting piston force 3007.12 N
Extracting piston force 3322.95 N
Min. ambient temperature -23.33 °C
Max. ambient temperature 73.88 °C
Min. working pressure 1.38 bar

Min. working pressure 1.38 bar Max. working pressure 10 bar

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Max. speed 2 m/s Cylinders

Medium Compressed air

Min. medium temperature -23.33 °C

73.88 °C

Material

Max. medium temperature

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. R480698523

#### Technical information

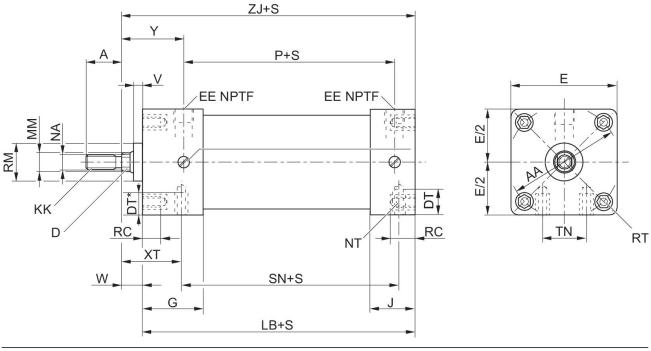
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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

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#### Dimensions in inches



S = stroke

#### Dimensions not affected by rod diameter

Ø [inch]	Е	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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**AVENTICS** Series

TaskMaster

Profile

			Υ	·		Y	·		_ Profile
Ø [inch]	MM	W	EE	RM	ZJ	А	D		
4	1	0.75	1/2	1.5	5.63	1.12	0.875	1.59	Cylinders
	'	0.70	1,72	1.0	0.00	1.12	0.070	1.00	0004.04.45
									2024-04-15

