# Profile cylinder NFPA, TaskMaster®, Series TM5

R480698494

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 101.6 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.	R480698494

#### **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.

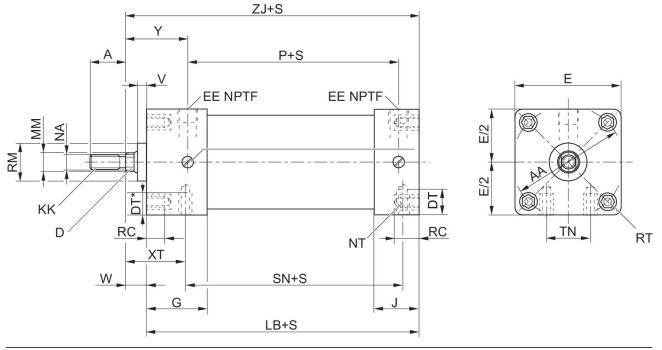


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### **Dimensions in inches**



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		Cylinders	
4	1	0.75	1/2	1.5	5.63	1.12	0.875	1.59	- Oyiniders	
									2024-04-15	

