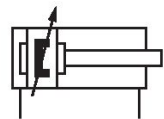


AVENTICS Series 167 Tie-rod cylinder

The AVENTICS Series 167 is a tie rod cylinder according ISO 6431 and offers the highest robustness for tough environment.

- Ø 25 ... 100 mm
- Max. stroke: 1500 mm
- For high stroke frequencies and pulley applications
- Plug-in with tube nut / External thread



Technical data

Industry	Industrial
Standards	ISO 6431
Piston Ø	40 mm
Stroke	80 mm
Ports	G 1/4
Functional principle	Double-acting
Cushioning	Pneumatic adjustable cushioning
Magnetic piston	Piston with magnet
Environmental requirements	Industry standard
Piston rod thread - type	External thread
Piston rod thread	M12x1,25
Piston rod	single
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6 bar
Retracting piston force	640 N
Extracting piston force	760 N
Min. ambient temperature	-20 °C
Max. ambient temperature	75 °C
Min. working pressure	2 bar

Tie rod cylinder ISO 6431, Series 167

Series 167

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Max. working pressure	10 bar
Cushioning length	15 mm
Weight 0 mm stroke	0.76 kg
Weight +10 mm stroke	0.032 kg
Stroke max.	1600 mm
Medium	Compressed air
Min. medium temperature	-20 °C
Max. medium temperature	75 °C
Max. particle size	50 µm
Min. oil content of compressed air	0 mg/m ³
Max. oil content of compressed air	5 mg/m ³

Material

Piston rod	Stainless Steel
Seal material	Acrylonitrile butadiene rubber
Material, front cover	Aluminum
Cylinder tube	Aluminum
End cover	Aluminum
Part No.	1670408000

Technical information

Ø25 mm is not according to ISO 6431

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.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

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Dimensions



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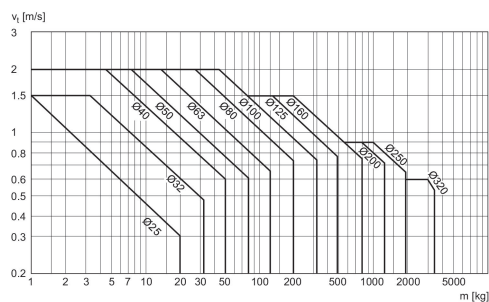
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Piston Ø	AM	Ø B h12	BG	C	CC	E	EE	KK	Ø MM	NV
25	22	23	12	8	20,0	40	G 1/8	M10x1,25	12	10
32	22	25	12	10	27,5	47	G 1/8	M10x1,25	12	10
40	24	35	15	13	30,0	56	G 1/4	M12x1,25	16	13
50	32	40	15	15	30,0	63	G 1/4	M16x1,5	20	17
63	32	40	19	14	34,0	81	G 3/8	M16x1,5	20	17
80	40	48	19	16	36,0	95	G 3/8	M20x1,5	25	22
100	40	55	23	16	40,0	115	G 1/2	M20x1,5	25	22

Piston Ø	P	PJ	RT	TG	V	VD	WH	Y	ZB	ZD
25	—	58	M5	27	—	16	24	31	98 ±1,2	74
32	4	65	M5	32	5	16	26	41	120 ±1,2	94
40	4	69	M6	40	5	20	33	48	132 ±1,2	99
50	4	72	M6	46	6	23	38	54	142 ±1,2	104
63	6	79	M8	59	6	27	41	58	154 ±1,4	113
80	9	86	M8	73	8	32	48	67	172 ±1,4	124
100	12	100	M10	90	8	37	53	70	187 ±1,4	134

Piston Ø	stroke tol- erance
25	+2/-1
32	+2/-0
40	+2/-0
50	+2/-0
63	+2,5/-0
80	+2,5/-0
100	+2,5/-0

Cushioning diagram



V = velocity [m/s]
m = mass

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Overview drawing



NOTE: This overview drawing is only for orientation to indicate where the various accessory parts can be fastened to the cylinder. The illustration has been simplified for this purpose. It is thus not possible to derive the dimensions from this overview.