Piston rod cylinders, Series 102

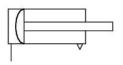
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- · fine thread
- · Piston rod: external thread
- · Single-acting, retracted without pressure

AVENTICS Series 102 Diaphragm type cylinder

The AVENTICS Series 102 is cost-efficient solution to generate high forces for press application for example.





Technical data

 $\begin{array}{lll} \text{Industry} & \text{Industrial} \\ \text{Piston } \varnothing & 60 \text{ mm} \\ \text{Stroke} & 80 \text{ mm} \\ \text{Ports} & G 1/4 \end{array}$

Functional principle Single-acting, retracted without pressure

Piston rod thread - type External thread
Piston rod thread M12x1,25

Pressure for determining piston forces 6 bar Extracting piston force 1600 N -20 °C Min. ambient temperature 70 °C Max. ambient temperature 2 bar Min. working pressure 8 bar Max. working pressure 130 N Min. spring force 320 N Max. spring force Weight 1 kg

Medium Compressed air

Min. medium temperature -20 °C Max. medium temperature 70 °C

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Max. particle size $50 \mu m$ Min. oil content of compressed air 0 mg/m^3 Max. oil content of compressed air 5 mg/m^3

Material

Piston rod Steel, chrome-plated

Seal material Acrylonitrile butadiene rubber

Material, front cover Steel, chrome-plated Cylinder tube Steel, chrome-plated

Part No. 1022100000

Technical information

Tolerance at 40 mm, 50 mm, 80 mm stroke: ± 3 mm

Tolerance at 100 mm stroke: + 6 mm / -1 mm

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.

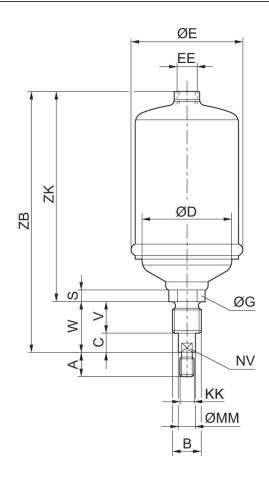
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

Dimensions

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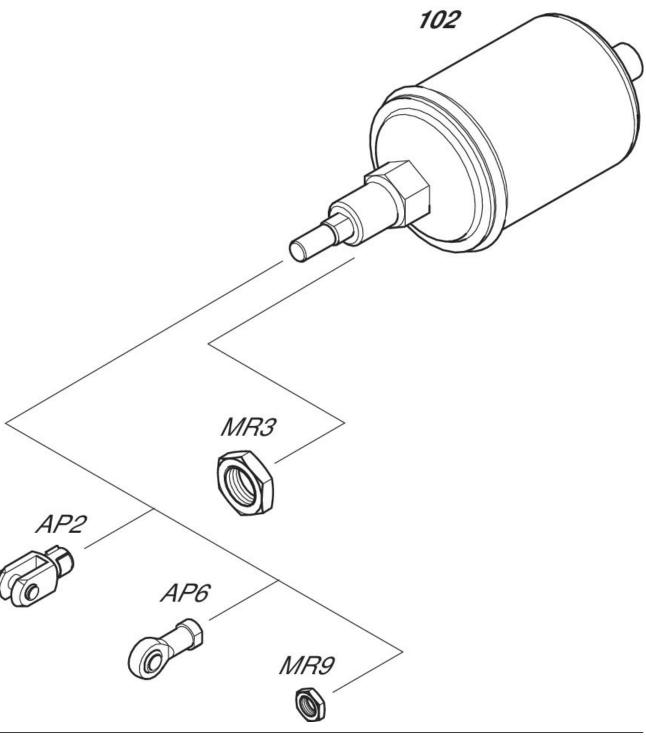


Part No.	Piston Ø	А		С	D	Е	G		V
1022100000	60	24	M 24	11	54	66	30	18	30
1022200000	85	24	M24	11	77	93	30	18	30
1022300000	250	48	M48x3	20	56	268	50	33	40

Part No.	Piston Ø	W	EE	KK	MM	NV	ZB	ZK
1022100000	60	41	G 1/4	M12x1.25	14	12	222	181
1022200000	85	41	G 1/4	M12x1.25	14	12	222	181
1022300000	250	60	G 1/2	M24x2	28	25	385	325

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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.