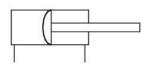
1021100000 2024-06-10

- · fine thread
- Piston rod: external thread
- · Double-acting

#### **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

Industry Industrial Piston Ø 80 mm Stroke 40 mm **Ports** G 1/4

Functional principle Double-acting Piston rod thread - type External thread M12x1,25 Piston rod thread

Pressure for determining piston forces 6 bar Retracting piston force 2880 N 3000 N Extracting piston force -20 °C Min. ambient temperature 70 °C Max. ambient temperature 2 bar Min. working pressure Max. working pressure 8 bar Weight 2.6 kg

Medium Compressed air

-20 °C Min. medium temperature 70 °C Max. medium temperature Max. particle size 50 µm

1021100000 2024-06-10

Min. oil content of compressed air 0 mg/m³ Max. oil content of compressed air 5 mg/m³

#### Material

Piston rod Steel, chrome-plated

Seal material Acrylonitrile butadiene rubber

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

Part No. 1021100000

#### Technical information

Diaphragm actuator strokes are tolerance-dependent.

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

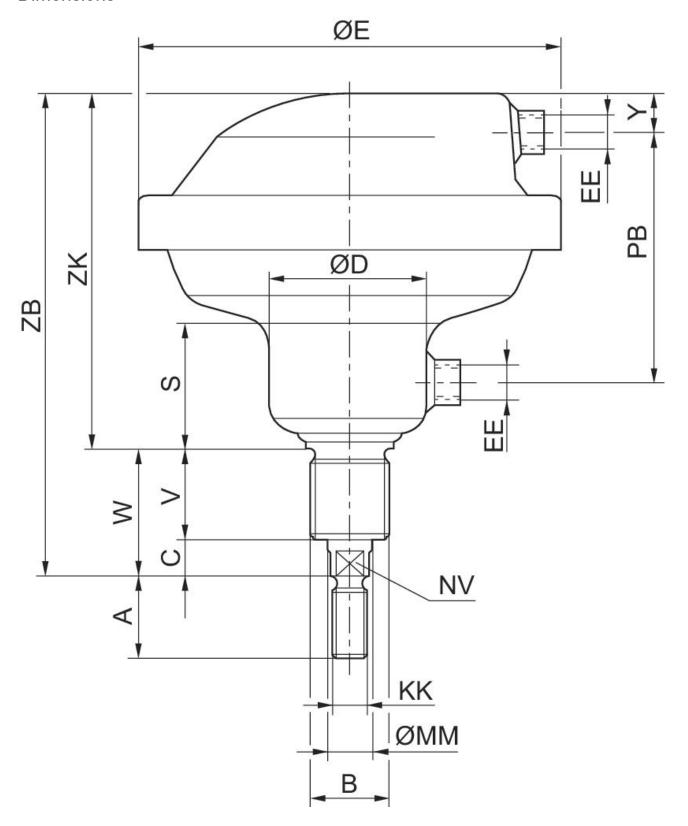
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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).

1021100000 2024-06-10

#### **Dimensions**



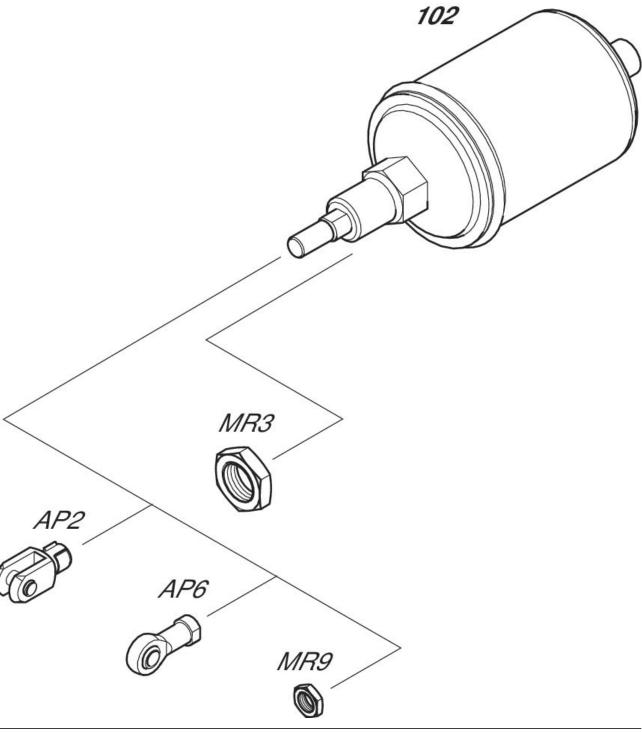
2024-06-10

Part No.	Piston Ø	А	В	С	D	Е	S	V	W
1021100000	80	24	M24x2	14	55	150	48	38	52
1021200000	113	32	M36x3	20	71	195	55	38	58
1021300000	160	40	M36x3	20	88	261	58	45	65

Part No.	Piston Ø	Y	EE	KK	MM	NV	РВ	ZB	ZK
1021100000	80	15	G 1/4	M12x1.25	16	13	90	183	131
1021200000	113	15	G 1/4	M16x1.5	20	17	107	212	154
1021300000	160	26	G 1/2	M20x1.5	25	22	117	243	178

1021100000 2024-06-10

## 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.