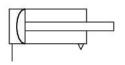
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- · Coarse-pitch threads
- · Piston rod: external thread
- · Single-acting, retracted without pressure

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

IndustryIndustrialPiston Ø113 mmStroke50 mmPortsG 1/4

Functional principle Single-acting, retracted without pressure

Piston rod thread - type External thread

M16 Piston rod thread Pressure for determining piston forces 6 bar Extracting piston force 6000 N -20 °C Min. ambient temperature 70 °C Max. ambient temperature 2 bar Min. working pressure 8 bar Max. working pressure 100 N Min. spring force 650 N Max. spring force Weight 5.6 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. 1025200000

Technical information

Diaphragm actuator strokes are tolerance-dependent.

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

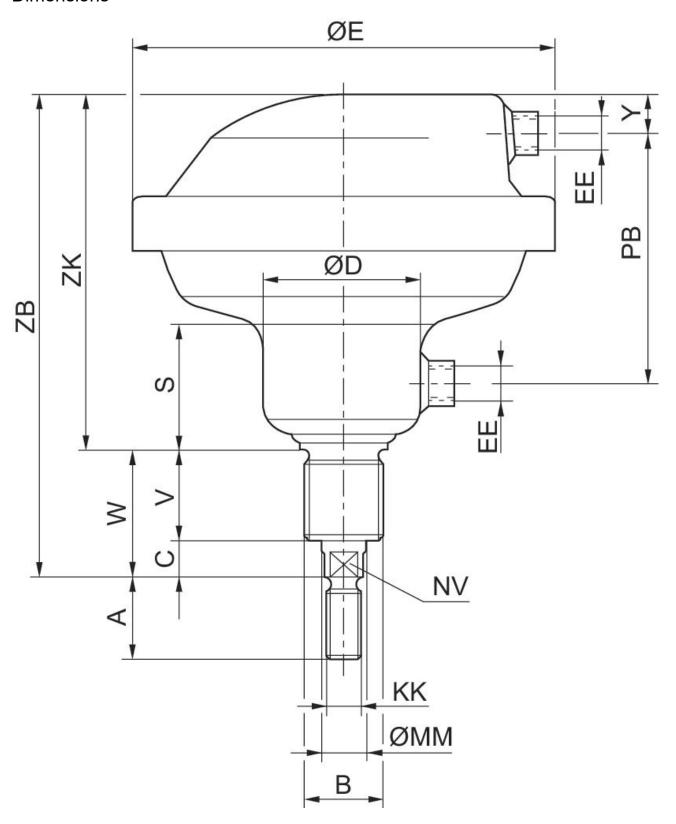
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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).

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Dimensions



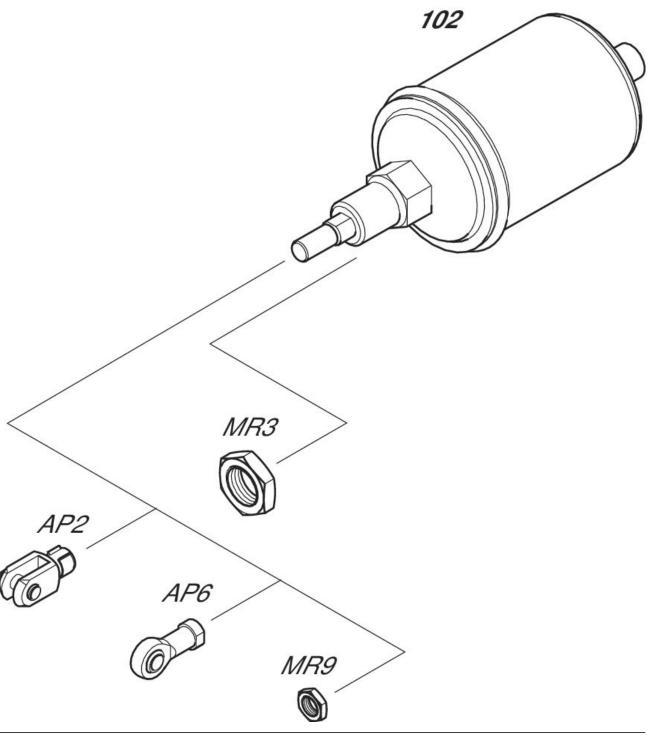
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Piston Ø	Part No.	А	В	С	D	Е	S	V	W
80	1025100000	24	M24x2	14	55	150	48	38	52
113	1025200000	32	M36x3	20	71	195	55	38	58
160	1025300000	40	M36x3	20	88	261	58	45	65

Piston Ø	Y	EE	KK	MM	NV	РВ	ZB	ZK
80	15	G 1/4	M12	16	13	90	183	131
113	15	G 1/4	M16	20	17	107	212	154
160	26	G 1/2	M20	25	22	117	243	178

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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.