Diaphragm-type cylinder, Series 102

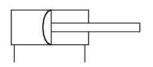
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- · fine thread
- · Piston rod: external thread
- · Double-acting

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

Functional principle Double-acting
Piston rod thread - type External thread

Piston rod thread M16x1,5 Pressure for determining piston forces 6 bar Retracting piston force 5800 N Extracting piston force 6000 N -20 °C Min. ambient temperature 70 °C Max. ambient temperature 2 bar Min. working pressure Max. working pressure 8 bar 100 N Min. spring force Weight 5.4 kg

Medium Compressed air

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

Diaphragm-type cylinder, Series 102

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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. 1021200000

Technical information

Diaphragm actuator strokes are tolerance-dependent.

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

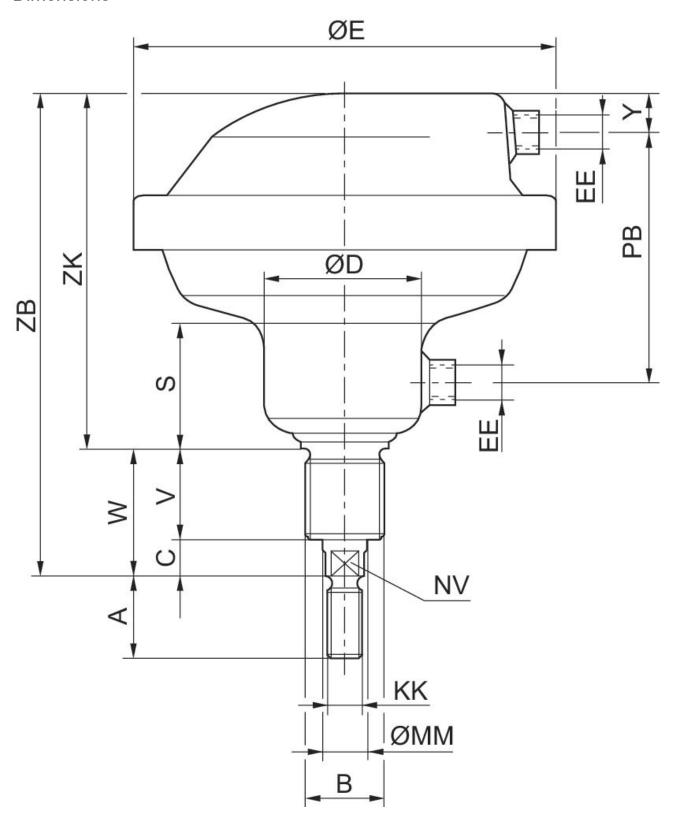
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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



Diaphragm-type cylinder, Series 102

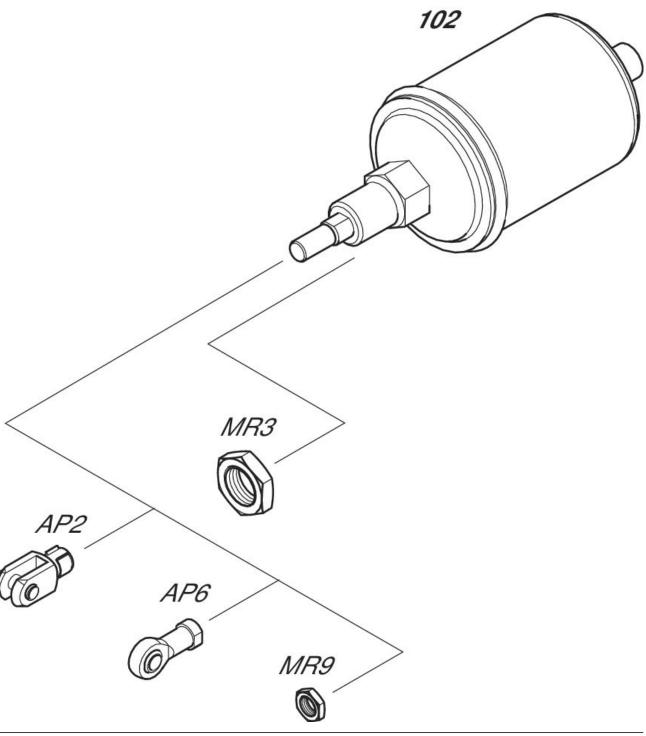
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| Part No. | Piston Ø | А | В | С | D | Е | S | V | W |
|------------|----------|----|-------|----|----|-----|----|----|----|
| 1021100000 | 80 | 24 | M24x2 | 14 | 55 | 150 | 48 | 38 | 52 |
| 1021200000 | 113 | 32 | M36x3 | 20 | 71 | 195 | 55 | 38 | 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 |

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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.

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