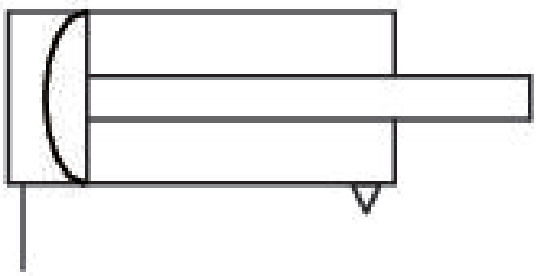
Piston rod cylinders, Series 102

1022100000

General series information
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	60 mm
Stroke	80 mm
Ports	G 1/4
Functional principle	Single-acting, retracted without pressure
Pressure for determining piston forces	6 bar
Extracting piston force	1600 N
Min. ambient temperature	-20 °C
Max. ambient temperature	70 °C
Working pressure min.	2 bar
Working pressure max	8 bar
Piston rod thread	M12x1,25

Spring force min.	130 N
Spring force max.	320 N
Weight	1 kg
Medium	Compressed air
Min. medium temperature	-20 °C
Max. medium temperature	70 °C
Max. particle size	50 µm
Oil content of compressed air min.	0 mg/m³
Oil content of compressed air max.	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.	1022100000

Technical information

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

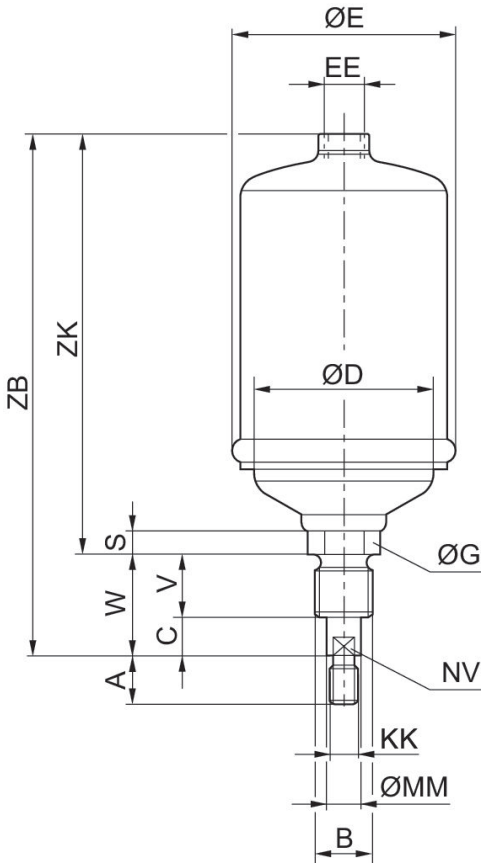
Tolerance at [[100] mm] stroke: +[[6] mm]/-[[1] mm]

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).

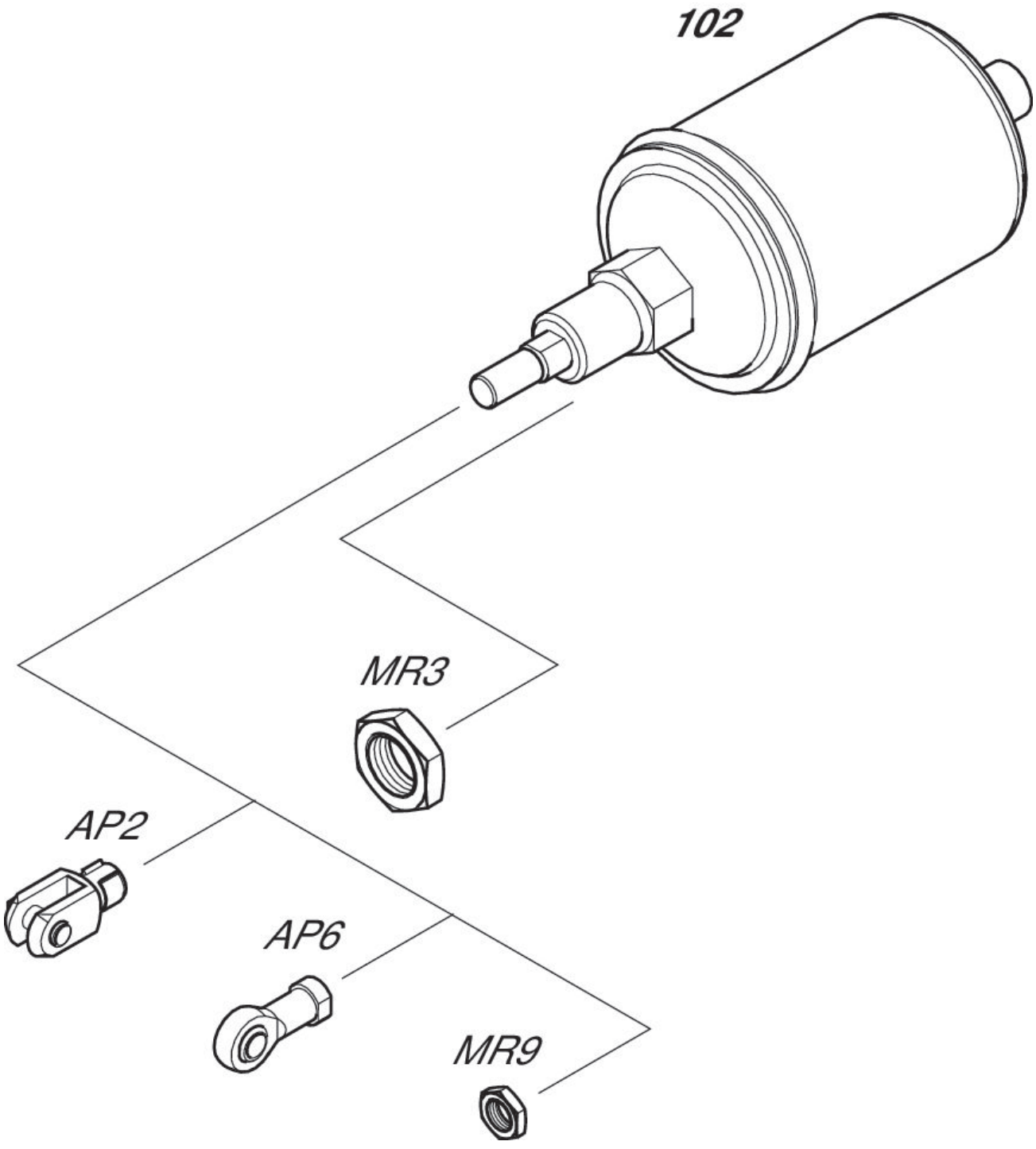
Dimensions



Part No.	Piston Ø	A	B	C	D	E	G	S	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

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.