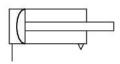
- fine thread
- Piston rod: external thread
- Single-acting, retracted without pressure

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	
Industry	Industrial
Piston Ø	85 mm
Stroke	80 mm
Ports	G 1/4
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	3000 N
Min. ambient temperature	-20 °C
Max. ambient temperature	70 °C
Min. working pressure	2 bar
Max. working pressure	8 bar
Min. spring force	130 N
Max. spring force	320 N
Weight	1.5 kg
Medium	Compressed air
Min. medium temperature	-20 °C
Max. medium temperature	70 °C



1022200000

Material Piston rod

Seal material

Cylinder tube

Part No.

Material, front cover

Max. particle size	50 µm
Min. oil content of compressed air	0 mg/m³
Max. oil content of compressed air	5 mg/m³

Steel, chrome-plated Acrylonitrile butadiene rubber Steel, chrome-plated Steel, chrome-plated 1022200000

Technical information

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

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

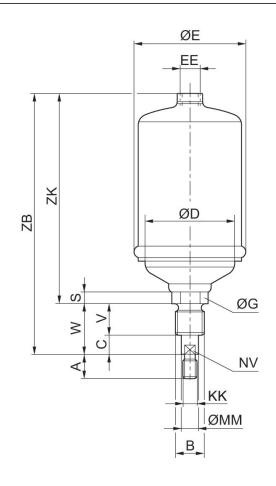
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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



1022200000

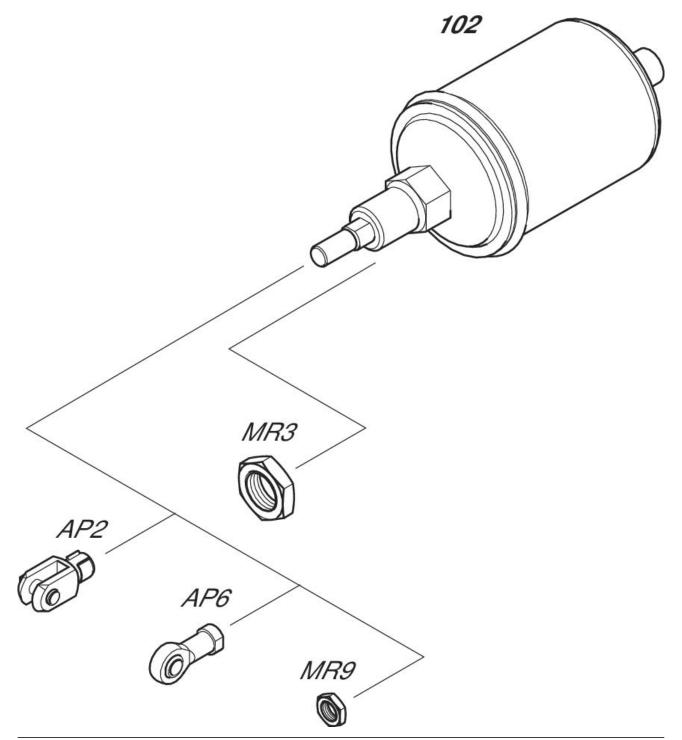


Part No.	Piston Ø	A	В	С	D	E	G	S	V
1022100000	60	24	M 24	11	54	66	30	18	30
1022200000	85	24	M24	11	77	93	30	18	30
1022300000	250	48	M48x3	20	56	268	50	33	40
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Part No.	Piston Ø	W	EE	KK	MM	NV	ZB	ZK	
1022100000	60	41	G 1/4	M12x1.25	14	12	222	181	
1022200000	85	41	G 1/4	M12x1.25	14	12	222	181	
1022300000	250	60	G 1/2	M24x2	28	25	385	325	



1022200000

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.

