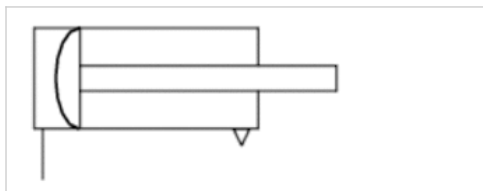


Diaphragm-type cylinder, Series 102

- Ø 3.15-6.3 inch
- Ports G 1/4 G 1/2
- Single-acting, retracted without pressure
- Piston rod External thread
- fine thread



Compressed air connection	Internal thread
Working pressure min./max.	29 ... 116 psi
Ambient temperature min./max.	-4 ... 158 °F
Medium temperature min./max.	-4 ... 158 °F
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Pressure for determining piston forces	87 psi
Weight	See table below



Technical data

Piston Ø Piston rod thread Ports	3.15 inch M12x1,25 G 1/4	4.45 inch M16x1,5 G 1/4	6.3 inch M20x1,5 G 1/2
Stroke 1.57	1020100000	-	-
1.97	-	1020200000	1020300000

Technical data

Piston Ø	3.15 inch	4.45 inch	6.3 inch
Extracting piston force	674.4 lbf	1348.8 lbf	2697.6 lbf

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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 the MediaCentre).

Diaphragm actuator strokes are tolerance-dependent.

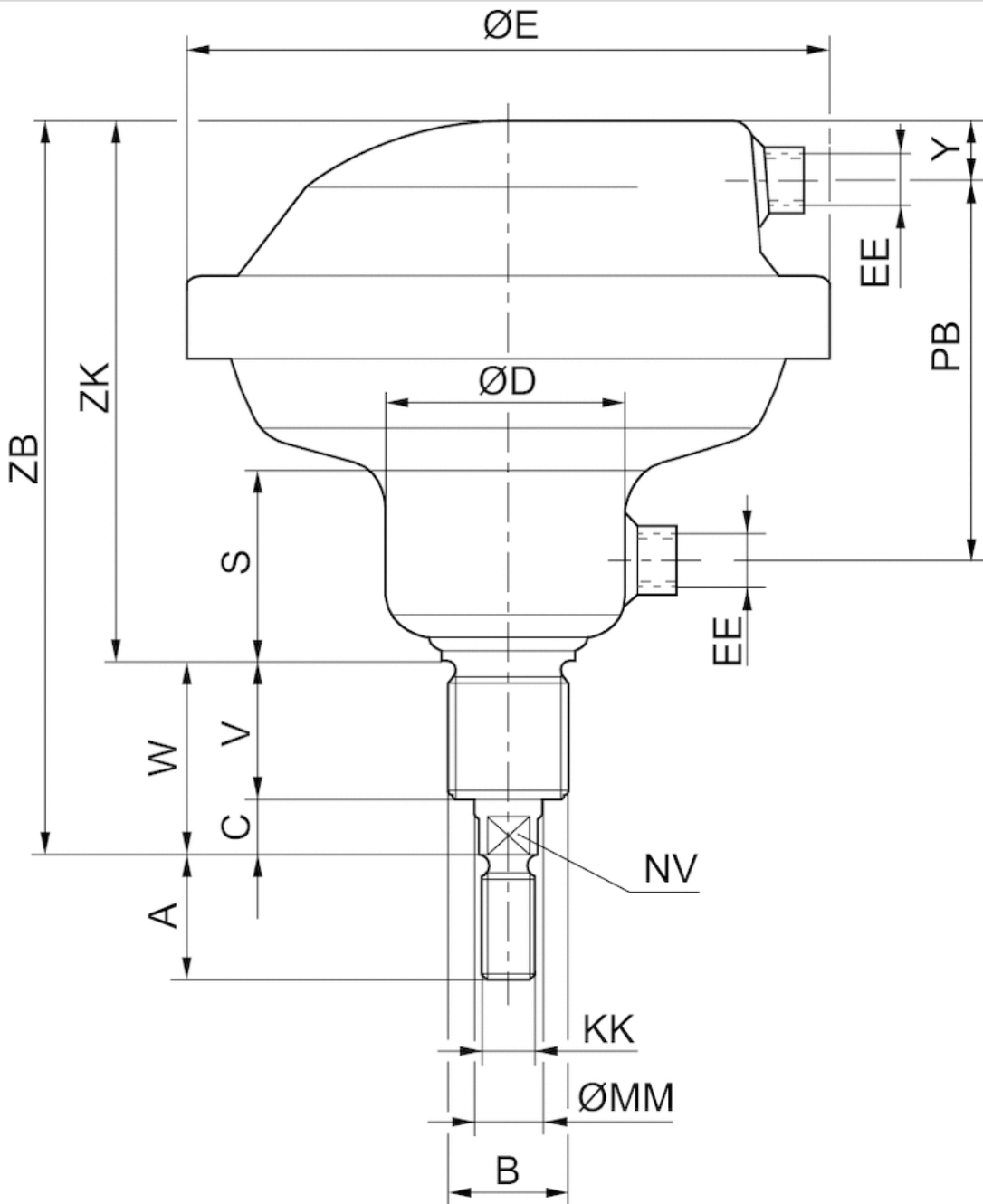
Tolerance at 1.575 in , 1.969 in , 3.15 in stroke: ± 0.118 in

Technical information

Material	
Cylinder tube	Steel
Piston rod	Steel
Front cover	Steel
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Weight [kg]

Piston Ø	S	Weight kg
3.15 inch	40	6.17 lbs
4.45 inch	50	12.35 lbs
6.3 inch	50	26.9 lbs

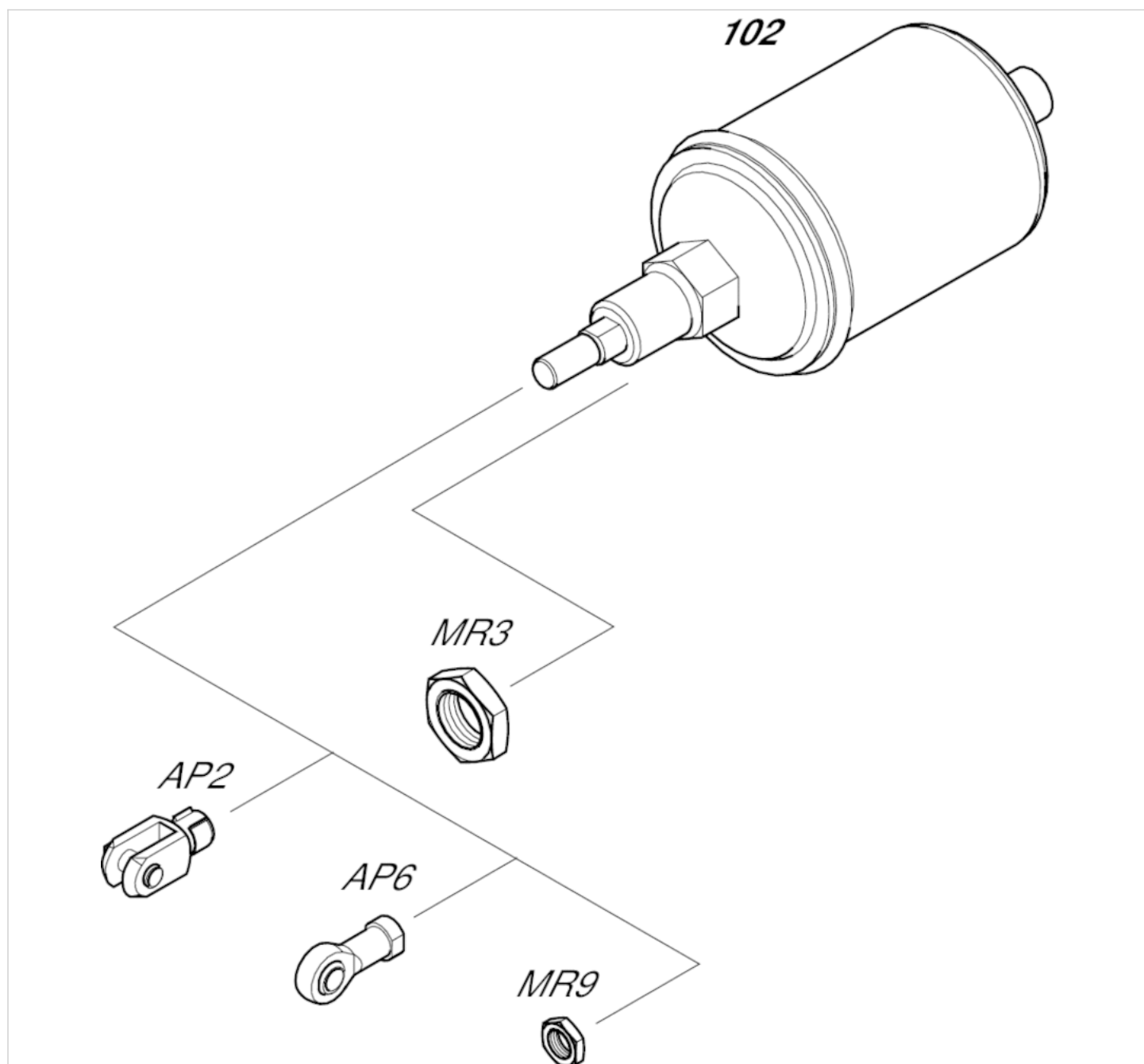
S = stroke

Dimensions

Piston Ø	A	B	C	D	E	S	V	W	Y	EE	KK	MM	NV	PB	ZB	ZK
3.15 inch	24	M24x2	14	55	150	48	38	52	15	G 1/4	M12x1,25	16	13	90	183	131
4.45 inch	32	M36x3	20	71	195	55	38	58	15	G 1/4	M16x1,5	20	17	107	212	154
6.3 inch	40	M36x3	20	88	261	58	45	65	26	G 1/2	M20x1,5	25	22	117	243	178

Accessories overview

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.