

Series 102



AVENTICS™ Series 102

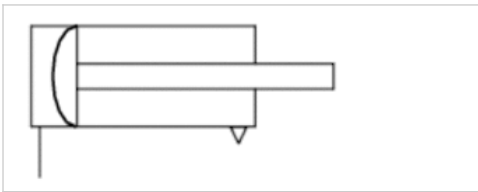


Diaphragm-type cylinder, Series 102

- Ø 80-160 mm
- Ports G 1/4 G 1/2
- Single-acting, retracted without pressure
- Piston rod External thread
- Coarse-pitch threads



Compressed air connection	Internal thread
Working pressure min./max.	2 ... 8 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Pressure for determining piston forces	6 bar
Weight	See table below



Technical data

Piston Ø Piston rod thread Ports	80 mm M12 G 1/4	113 mm M16 G 1/4	160 mm M20 G 1/2
Stroke 40	1025100000	-	-
50	-	1025200000	1025300000

Technical data

Piston Ø	80 mm	113 mm	160 mm
Extracting piston force	3000 N	6000 N	12000 N
Spring force min. - max.	100 ... 300 N	100 ... 650 N	240 ... 1000 N

Technical information

The pressure dew point must be at least 15 °C under 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 the MediaCentre).

Diaphragm actuator strokes are tolerance-dependent.

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

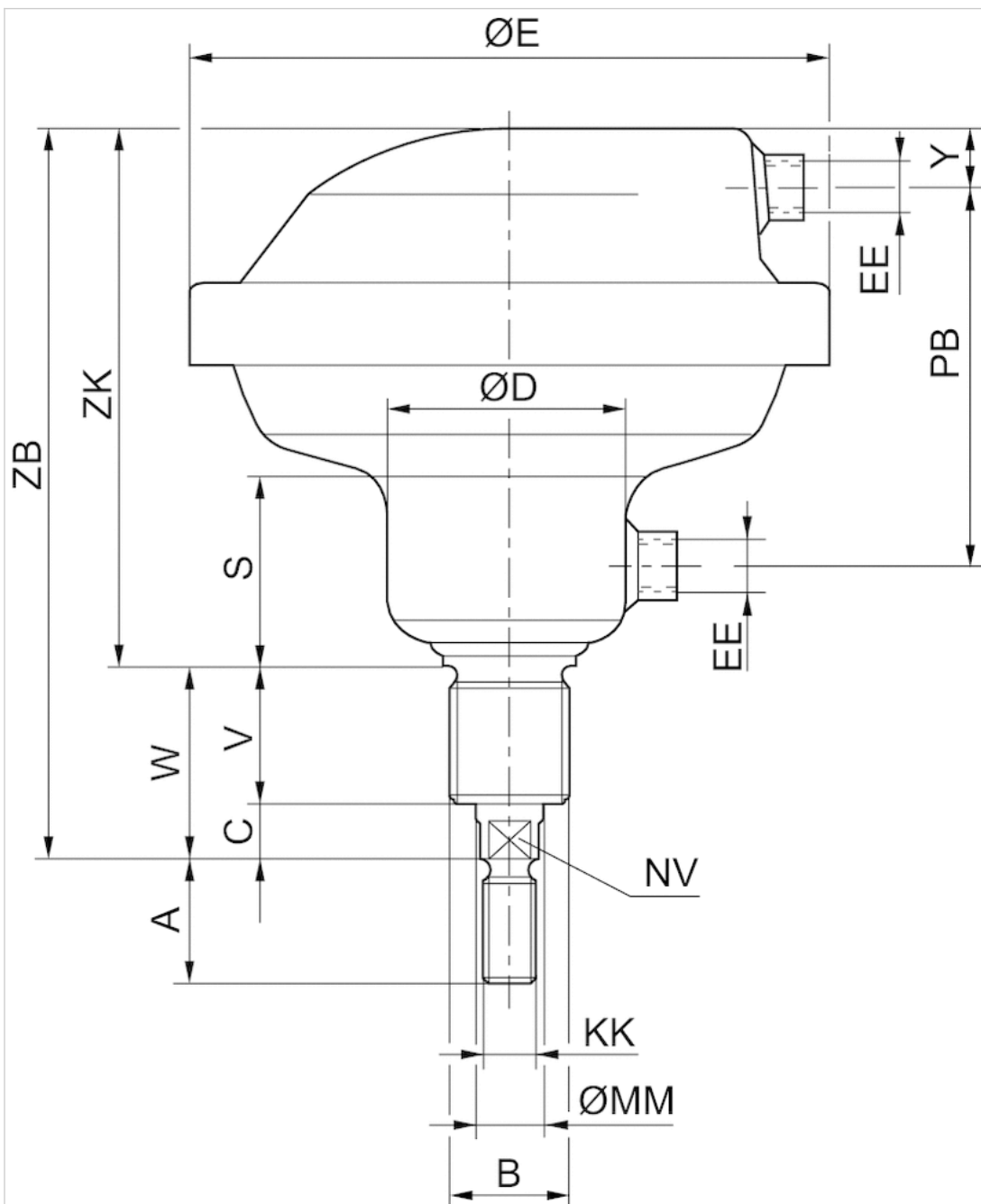
Technical information

Material

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

Dimensions

Dimensions



Weight [kg]

Piston Ø	S	Weight kg
80 mm	40	2.8 kg
113 mm	50	5.6 kg
160 mm	50	12.2 kg

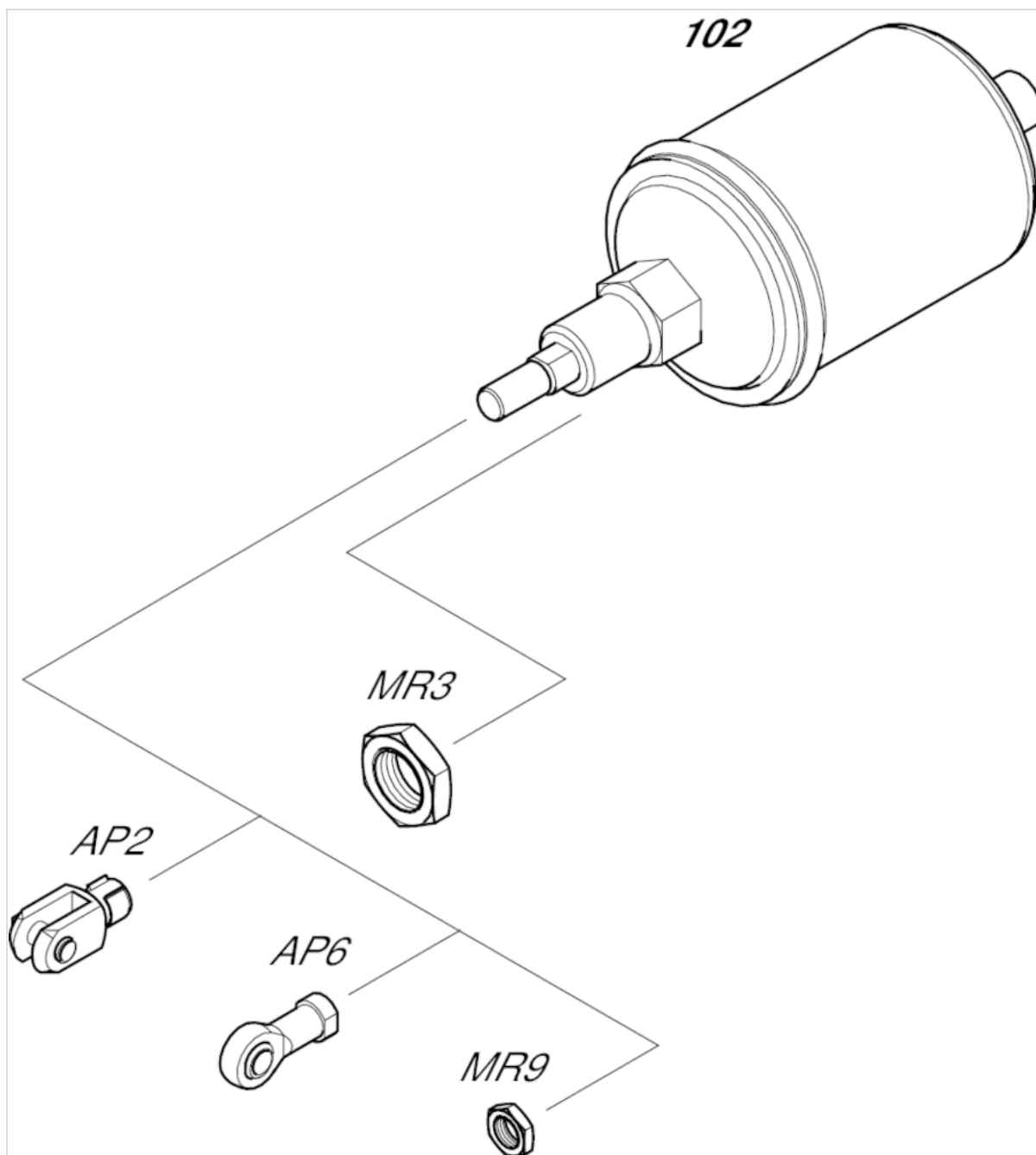
S = stroke

Dimensions

Piston Ø	A	B	C	D	E	S	V	W	Y	EE	KK	MM	NV	PB	ZB	ZK
80 mm	24	M24x2	14	55	150	48	38	52	15	G 1/4	M12	16	13	90	183	131
113 mm	32	M36x3	20	71	195	55	38	58	15	G 1/4	M16	20	17	107	212	154
160 mm	40	M36x3	20	88	261	58	45	65	26	G 1/2	M20	25	22	117	243	178

Accessories overview

Overview drawing



NOTE:

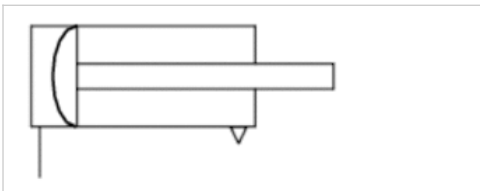
This overview drawing is only for orientation to indicate where the various accessory parts can be fastened to the cylinder. The illustration has been simplified for this purpose. It is thus not possible to derive the dimensions from this overview.

Diaphragm-type cylinder, Series 102

- Ø 80-160 mm
- 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.	2 ... 8 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Pressure for determining piston forces	6 bar
Weight	See table below



Technical data

Piston Ø Piston rod thread Ports	80 mm M12x1,25 G 1/4	113 mm M16x1,5 G 1/4	160 mm M20x1,5 G 1/2
Stroke 40	1020100000	-	-
50	-	1020200000	1020300000

Technical data

Piston Ø	80 mm	113 mm	160 mm
Extracting piston force	3000 N	6000 N	12000 N
Spring force min. - max.	100 ... 300 N	100 ... 650 N	240 ... 1000 N

Technical information

The pressure dew point must be at least 15 °C under 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 the MediaCentre).

Diaphragm actuator strokes are tolerance-dependent.

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

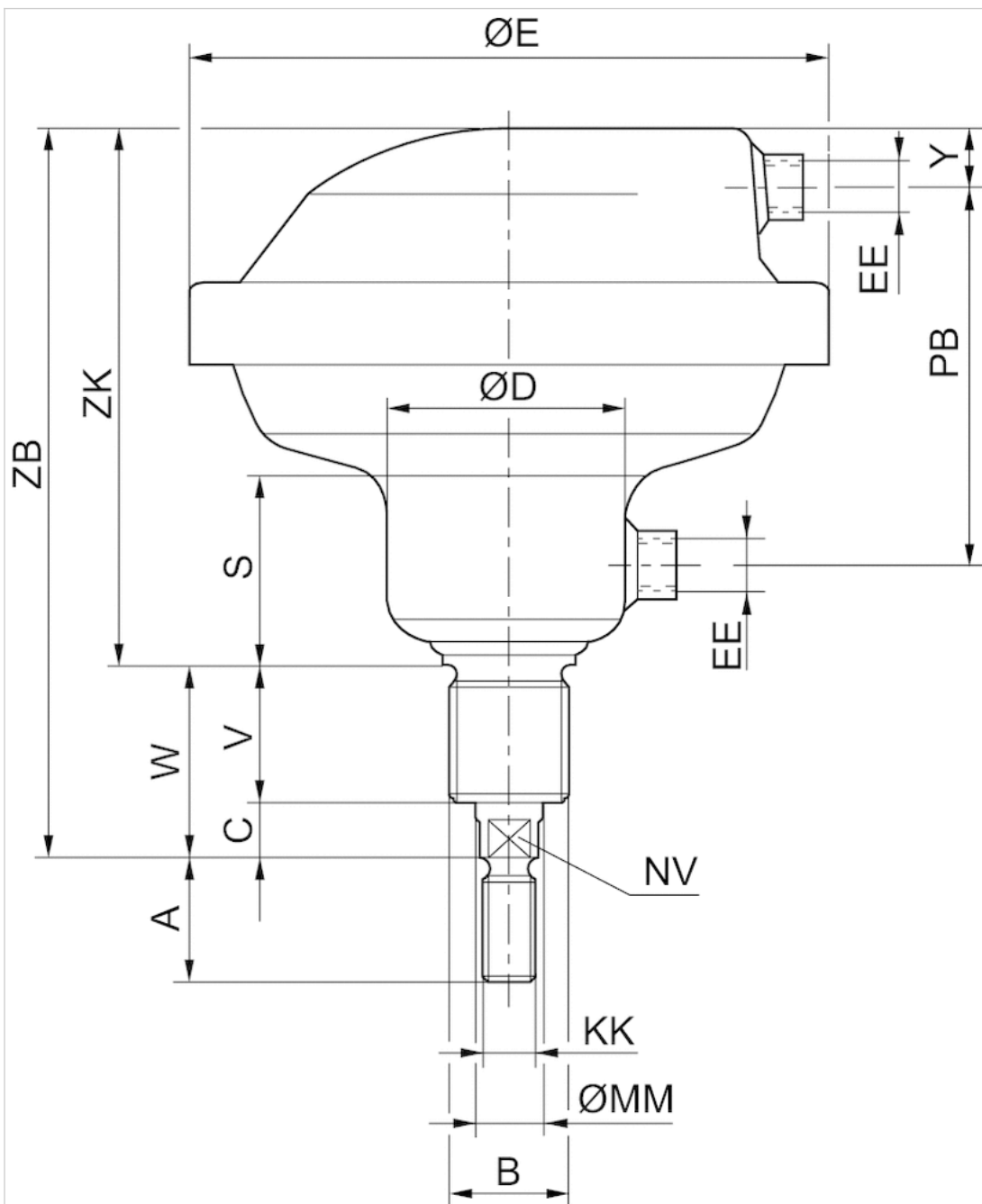
Technical information

Material

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

Dimensions

Dimensions



Weight [kg]

Piston Ø	S	Weight kg
80 mm	40	2.8 kg
113 mm	50	5.6 kg
160 mm	50	12.2 kg

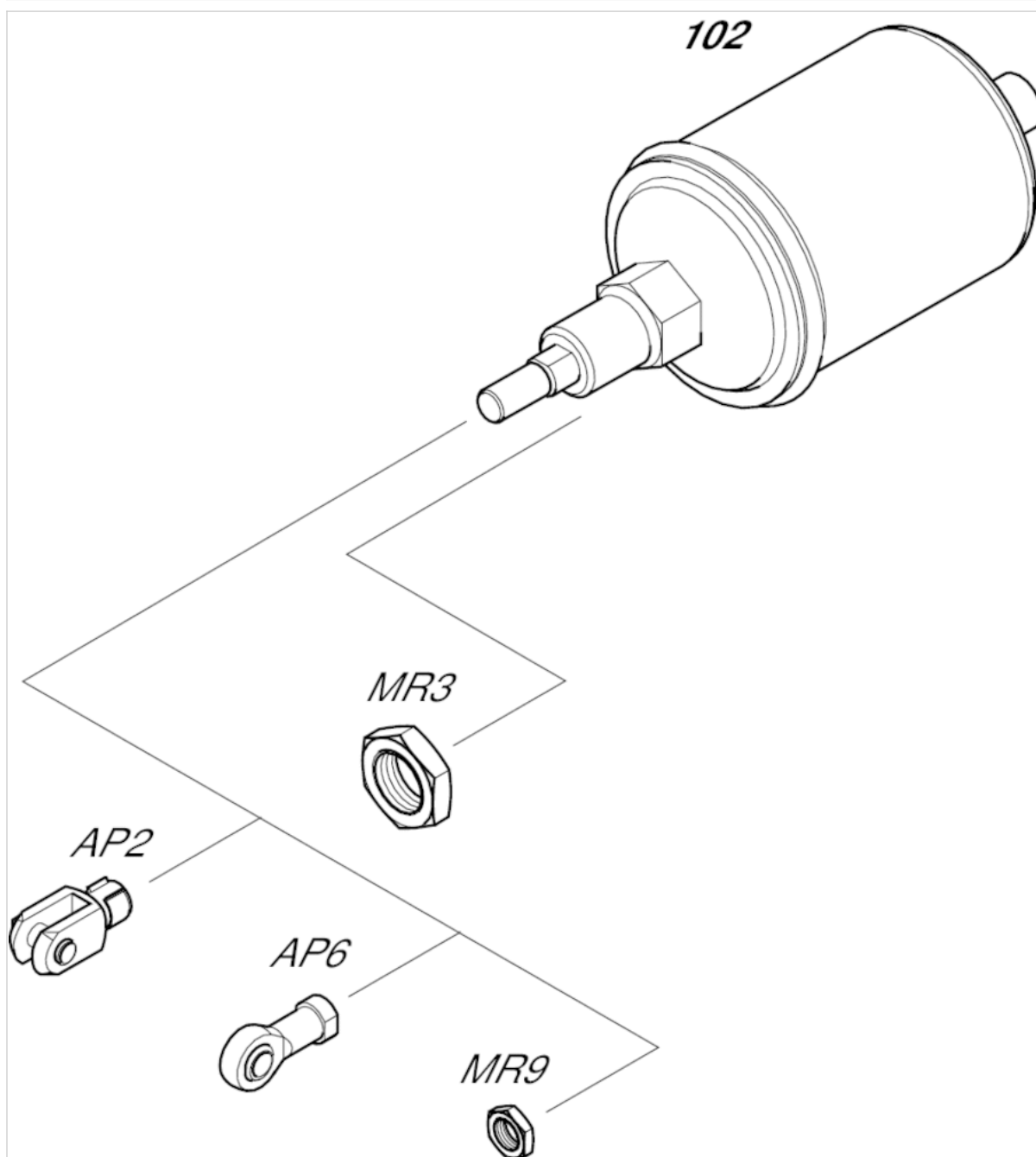
S = stroke

Dimensions

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

Accessories overview

Overview drawing



NOTE:

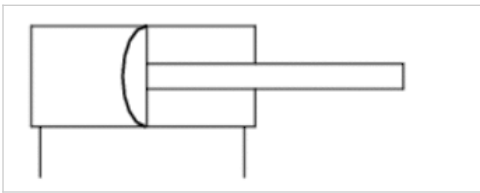
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Diaphragm-type cylinder, Series 102

- Ø 80-160 mm
- Ports G 1/4 G 1/2
- double-acting
- Piston rod External thread
- Coarse-pitch threads



Compressed air connection	Internal thread
Working pressure min./max.	2 ... 8 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Pressure for determining piston forces	6 bar
Weight	See table below



Technical data

Piston Ø Piston rod thread Ports	80 mm M12 G 1/4	113 mm M16 G 1/4	160 mm M20 G 1/2
Stroke 40	1026100000	-	-
50	-	1026200000	1026300000

Technical data

Piston Ø	80 mm	113 mm	160 mm
Retracting piston force	2880 N	5800 N	11600 N
Extracting piston force	3000 N	6000 N	12000 N
Spring force min. - max.	-	100 N	-

Technical information

The pressure dew point must be at least 15 °C under 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 the MediaCentre).

Diaphragm actuator strokes are tolerance-dependent.

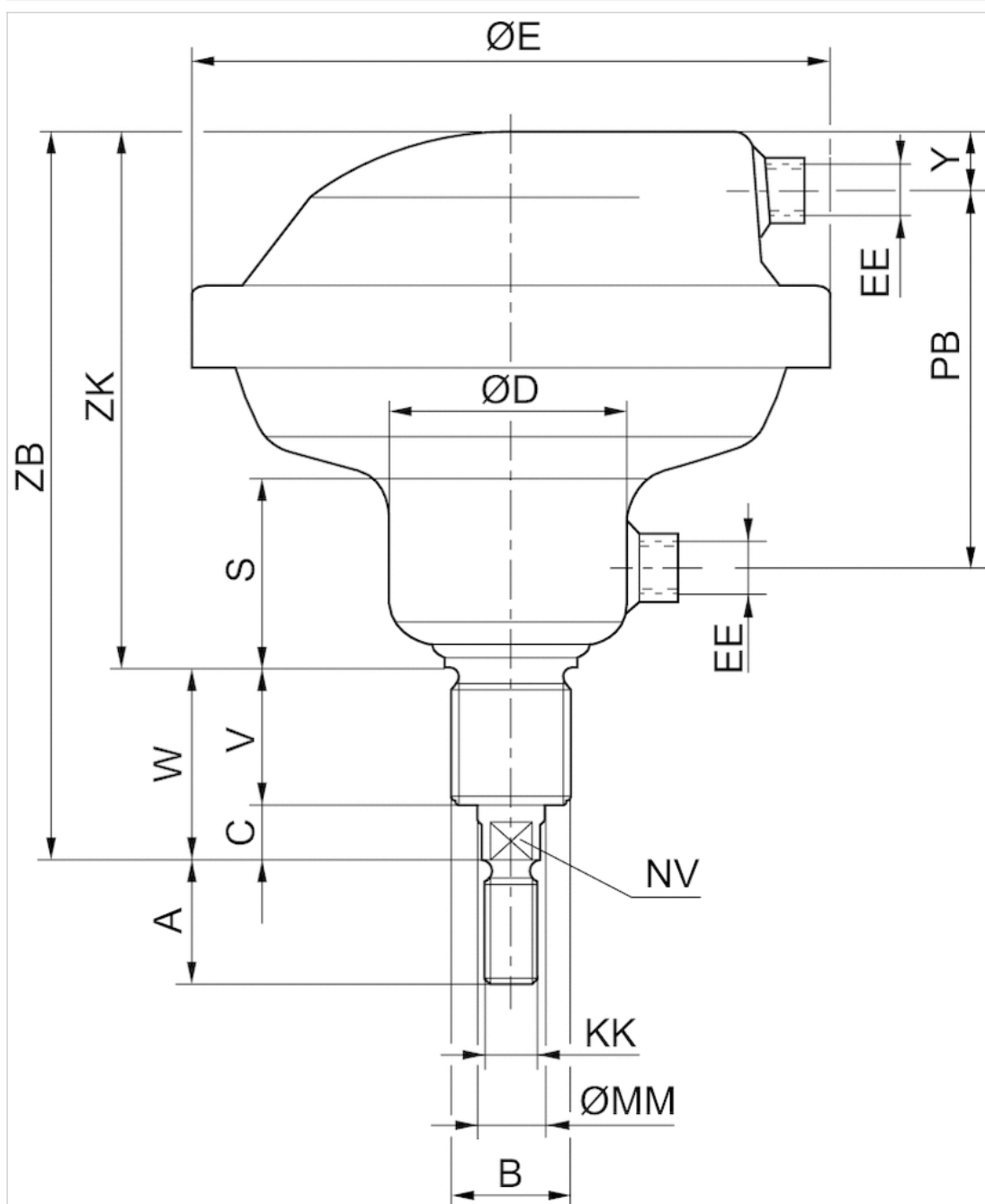
Tolerance at 40 mm , 50 mm , 80 mm stroke: ± 3 mm

Technical information

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

Dimensions

Dimensions



Dimensions

Piston Ø	A	B	C	D	E	S	V	W	Y	EE	KK	MM	NV	PB	ZB	ZK
80 mm	24	M24x2	14	55	150	48	38	52	15	G 1/4	M12	16	13	90	183	131
113 mm	32	M36x3	20	71	195	55	38	58	15	G 1/4	M16	20	17	107	212	154
160 mm	40	M36x3	20	88	261	58	45	65	26	G 1/2	M20	25	22	117	243	178

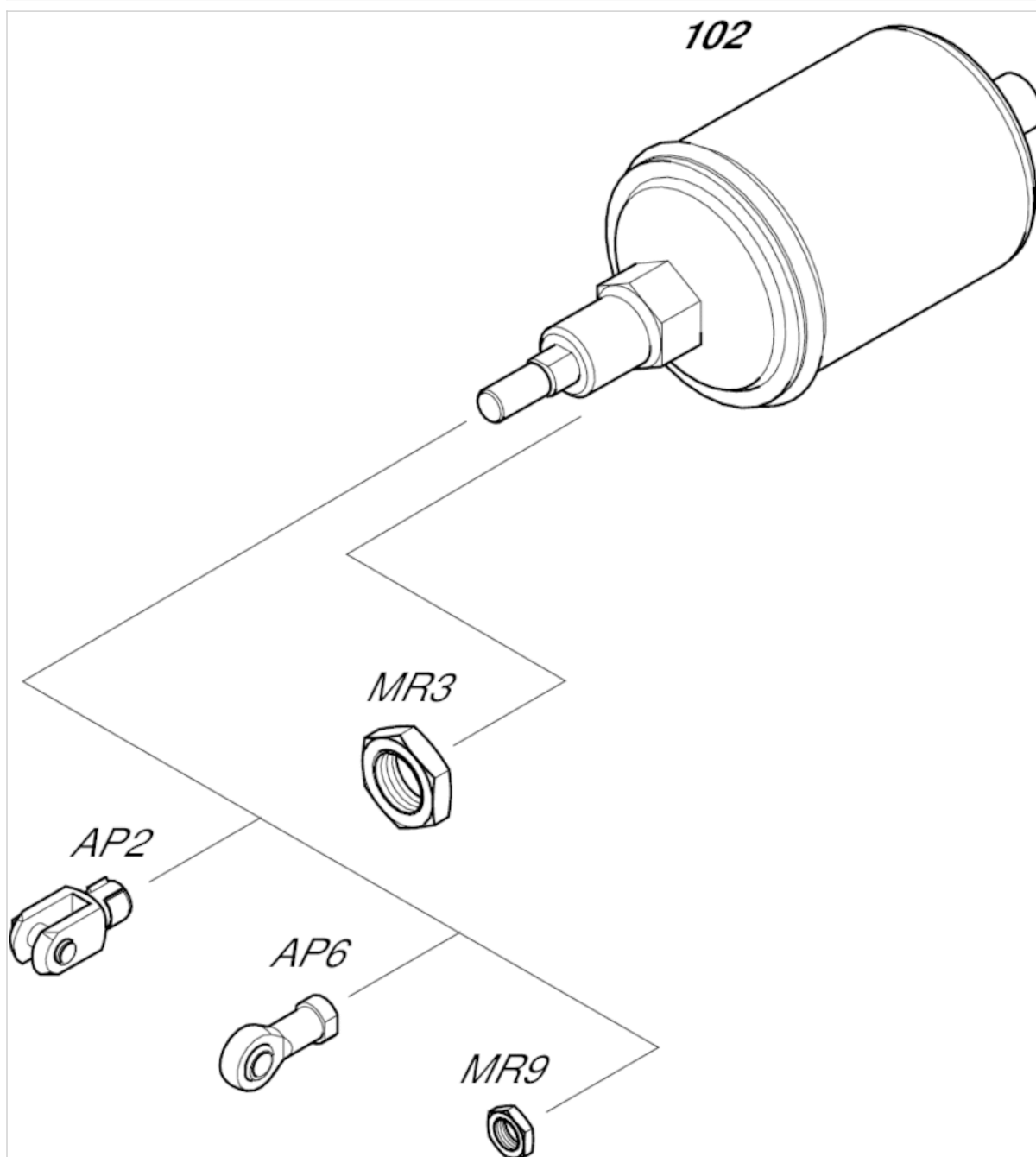
Weight [kg]

Piston Ø	S	Weight kg
80 mm	40	2.6 kg
113 mm	50	5.4 kg
160 mm	50	11.4 kg

S = stroke

Accessories overview

Overview drawing



NOTE:

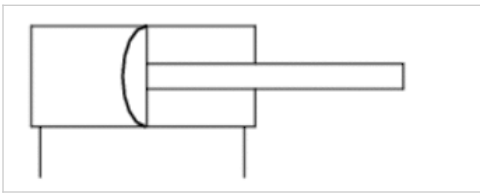
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Diaphragm-type cylinder, Series 102

- Ø 80-160 mm
- Ports G 1/4 G 1/2
- double-acting
- Piston rod External thread
- fine thread



Compressed air connection	Internal thread
Working pressure min./max.	2 ... 8 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Pressure for determining piston forces	6 bar
Weight	See table below



Technical data

Piston Ø Piston rod thread Ports	80 mm M12x1,25 G 1/4	113 mm M16x1,5 G 1/4	160 mm M20x1,5 G 1/2
Stroke 40	1021100000	-	-
50	-	1021200000	1021300000

Technical data

Piston Ø	80 mm	113 mm	160 mm
Retracting piston force	2880 N	5800 N	11600 N
Extracting piston force	3000 N	6000 N	12000 N
Spring force min. - max.	-	100 N	-

Technical information

The pressure dew point must be at least 15 °C under 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 the MediaCentre).

Diaphragm actuator strokes are tolerance-dependent.

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

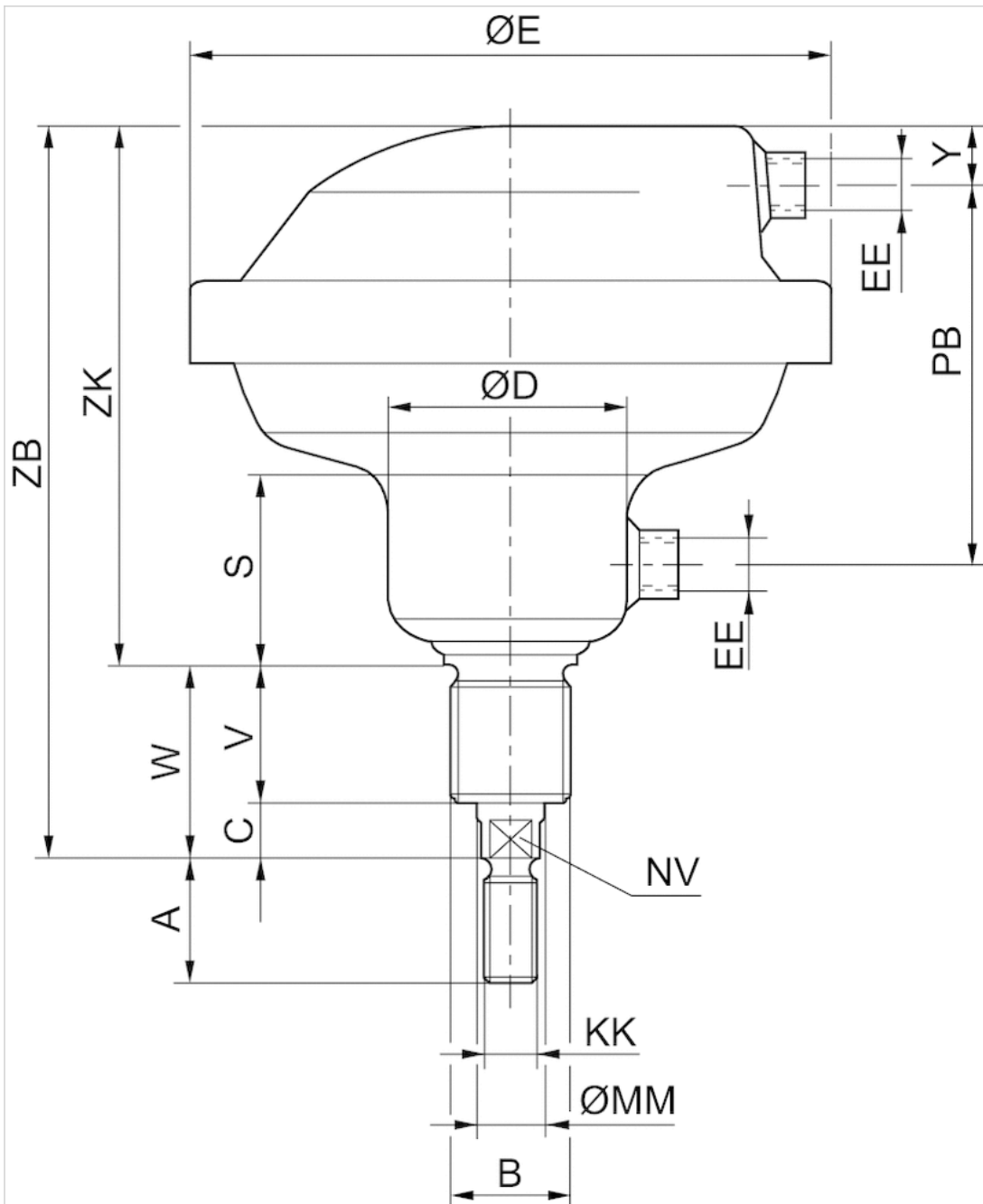
Technical information

Material

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

Dimensions

Dimensions



Dimensions

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

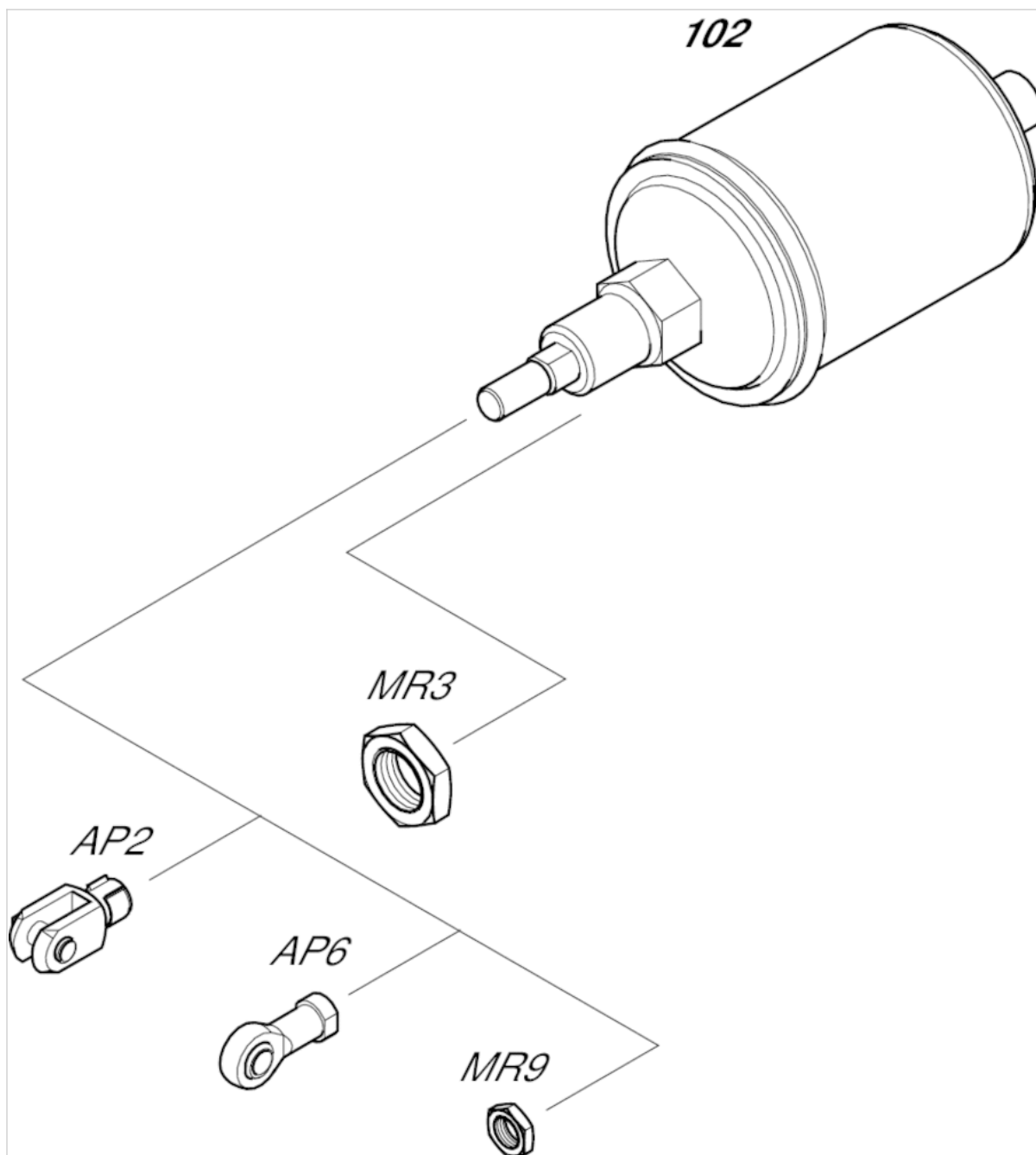
Weight [kg]

Piston Ø	S	Weight kg
80 mm	40	2.6 kg
113 mm	50	5.4 kg
160 mm	50	11.4 kg

S = stroke

Accessories overview

Overview drawing



NOTE:

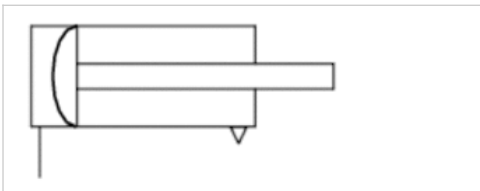
This overview drawing is only for orientation to indicate where the various accessory parts can be fastened to the cylinder. The illustration has been simplified for this purpose. It is thus not possible to derive the dimensions from this overview.

Piston rod cylinders, Series 102

- Ø 60-250 mm
- Ports G 1/4 G 1/2
- Single-acting, retracted without pressure
- Piston rod External thread
- Coarse-pitch threads



Compressed air connection	Internal thread
Working pressure min./max.	2 ... 8 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Pressure for determining piston forces	6 bar
Weight	See table below



Technical data

Piston Ø Piston rod thread Ports	60 mm M12 G 1/4	85 mm M12 G 1/4	250 mm M24 G 1/2
Stroke 80	1027100000	1027200000	-
100	-	-	1027300000

Technical data

Piston Ø	60 mm	85 mm	250 mm
Extracting piston force	1600 N	3000 N	25000 N
Spring force min. - max.	130 ... 320 N	130 ... 320 N	900 ... 2750 N

Technical information

The pressure dew point must be at least 15 °C under 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 the MediaCentre).

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

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

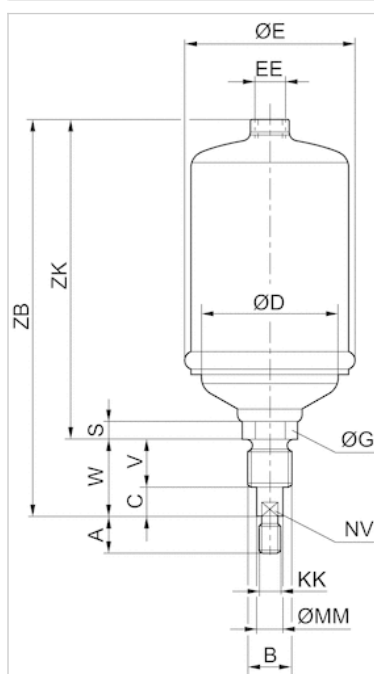
Technical information

Material

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

Dimensions

Dimensions



Dimensions

Piston Ø	A	B	C	D	E	G	S	V	W	EE	KK	MM	NV	ZB	ZK
60 mm	24	M 24	11	54	66	30	18	30	41	G 1/4	M12	14	12	222	181
85 mm	24	M24	11	77	93	30	18	30	41	G 1/4	M12	14	12	222	181
250 mm	48	M48x3	20	56	268	50	33	40	60	G 1/2	M24	28	25	385	325

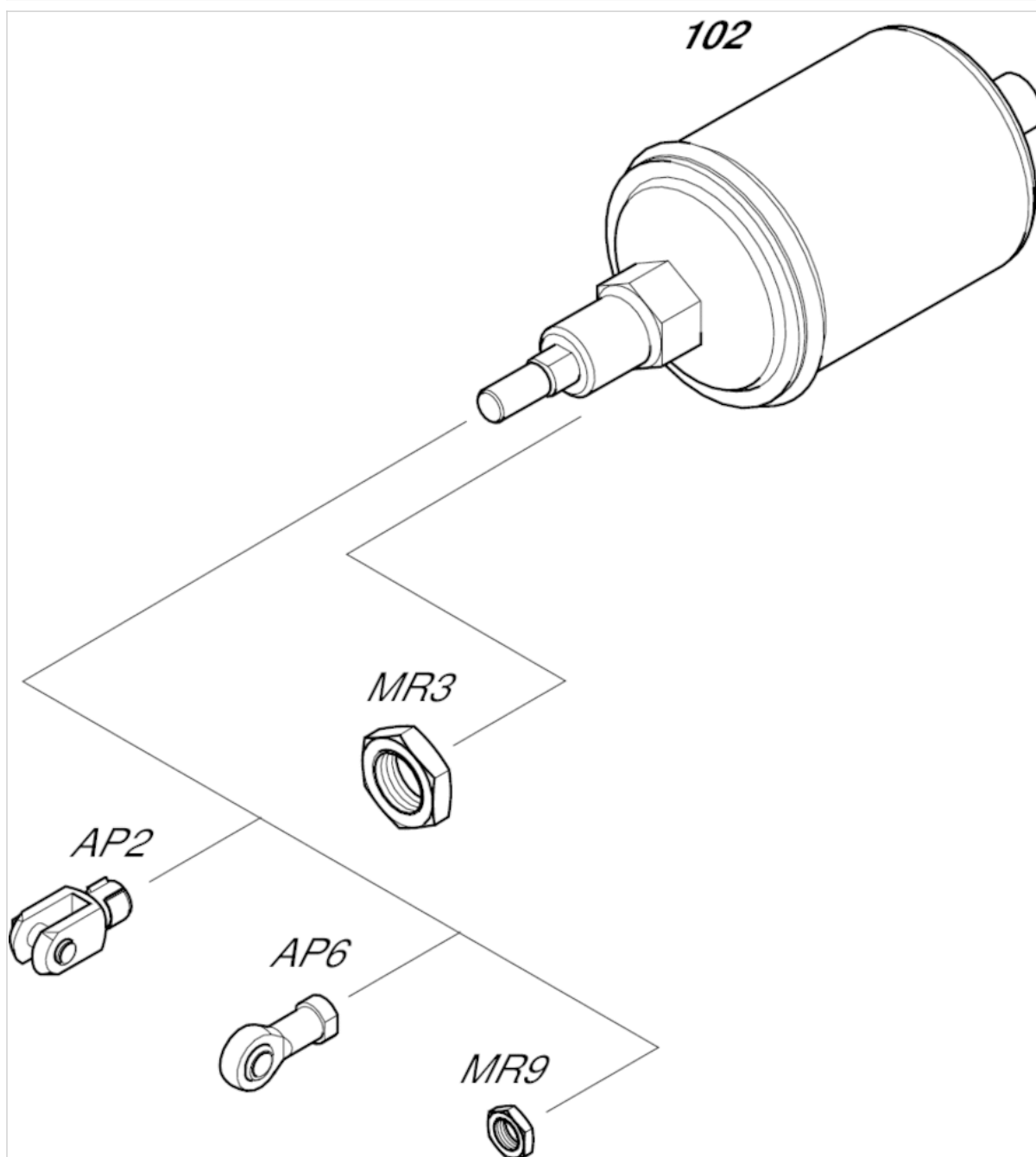
Weight [kg]

Piston Ø	S	Weight kg
60 mm	80 mm	1 kg
85 mm	80 mm	1.5 kg
250 mm	100 mm	22.2 kg

S = stroke

Accessories overview

Overview drawing



NOTE:

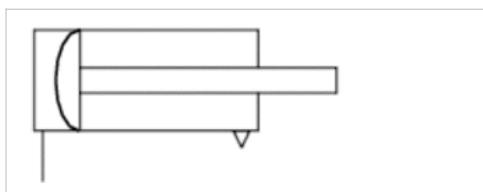
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Piston rod cylinders, Series 102

- Ø 60-250 mm
- 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.	2 ... 8 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Pressure for determining piston forces	6 bar
Weight	See table below



Technical data

Piston Ø Piston rod thread Ports	60 mm M12x1,25 G 1/4	85 mm M12x1,25 G 1/4	250 mm M24x2 G 1/2
Stroke 80	1022100000	1022200000	-
100	-	-	1022300000

Technical data

Piston Ø	60 mm	85 mm	250 mm
Extracting piston force	1600 N	3000 N	25000 N
Spring force min. - max.	130 ... 320 N	130 ... 320 N	900 ... 2750 N

Technical information

The pressure dew point must be at least 15 °C under 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 the MediaCentre).

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

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

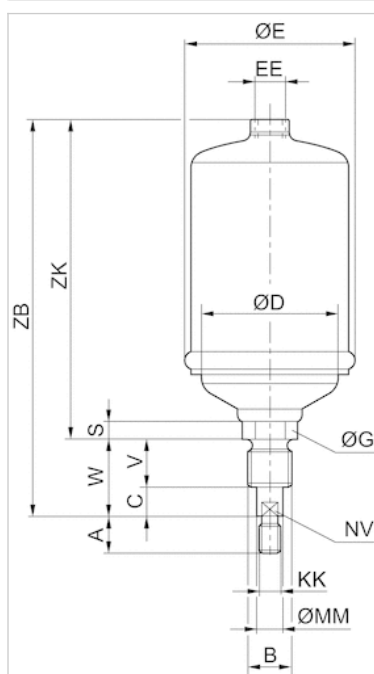
Technical information

Material

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

Dimensions

Dimensions



Dimensions

Piston Ø	A	B	C	D	E	G	S	V	W	EE	KK	MM	NV	ZB	ZK
60 mm	24	M 24	11	54	66	30	18	30	41	G 1/4	M12x1,25	14	12	222	181
85 mm	24	M24	11	77	93	30	18	30	41	G 1/4	M12x1,25	14	12	222	181
250 mm	48	M48x3	20	56	268	50	33	40	60	G 1/2	M24x2	28	25	385	325

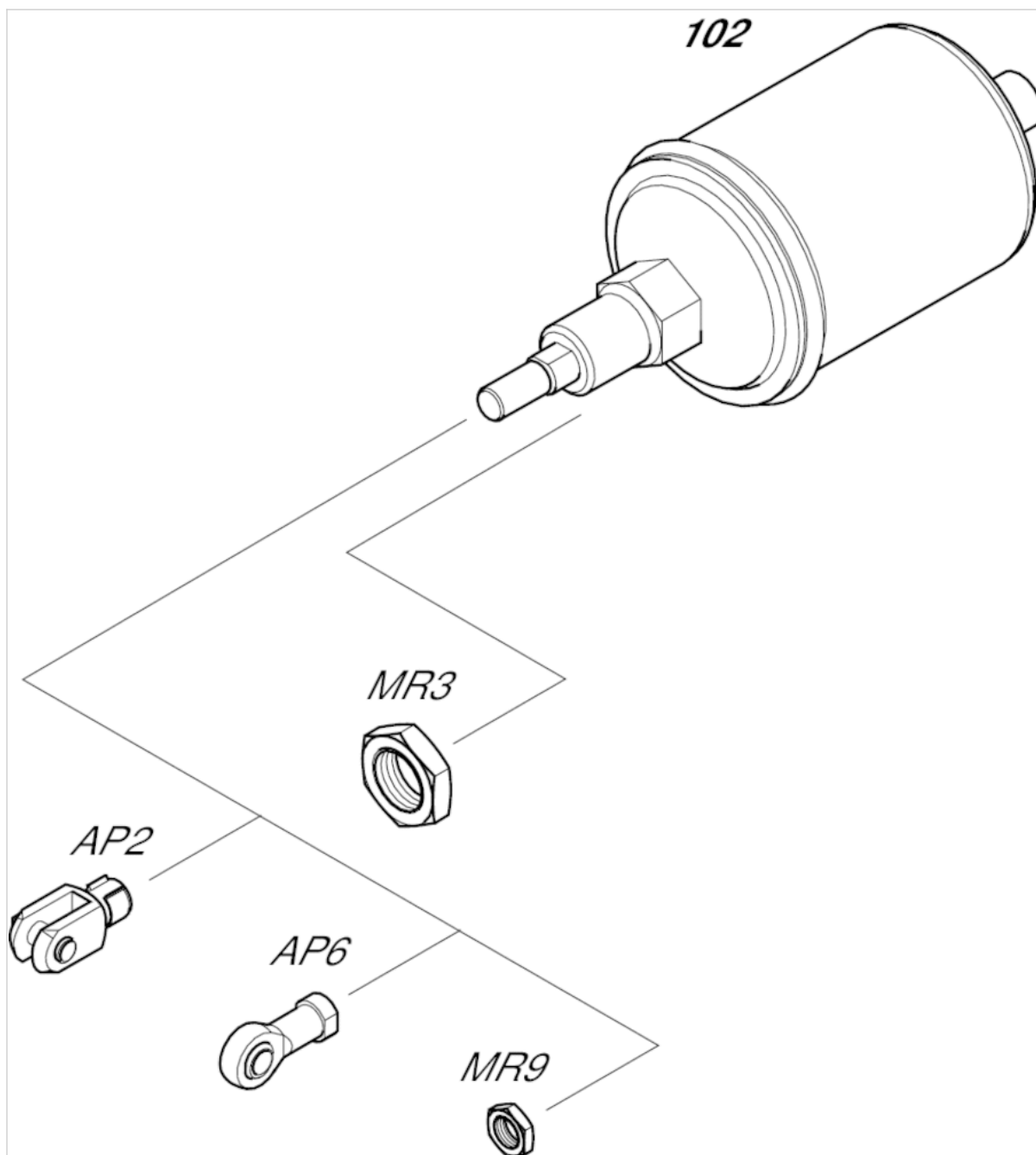
Weight [kg]

Piston Ø	S	Weight kg
60 mm	80 mm	1 kg
85 mm	80 mm	1.5 kg
250 mm	100 mm	22.2 kg

S = stroke

Accessories overview

Overview drawing



NOTE:

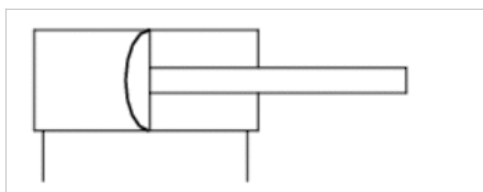
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Piston rod cylinders, Series 102

- Ø 250 mm
- Ports G 1/2
- double-acting
- Piston rod External thread
- Coarse-pitch threads



Compressed air connection	Internal thread
Working pressure min./max.	2 ... 8 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Pressure for determining piston forces	6 bar
Weight	21.6 kg



Technical data

Piston Ø Piston rod thread Ports	250 mm M24 G 1/2
Stroke 80	1028300000

Technical data

Piston Ø	250 mm
Retracting piston force	24300 N
Extracting piston force	25000 N

Technical information

The pressure dew point must be at least 15 °C under 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 the MediaCentre).

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

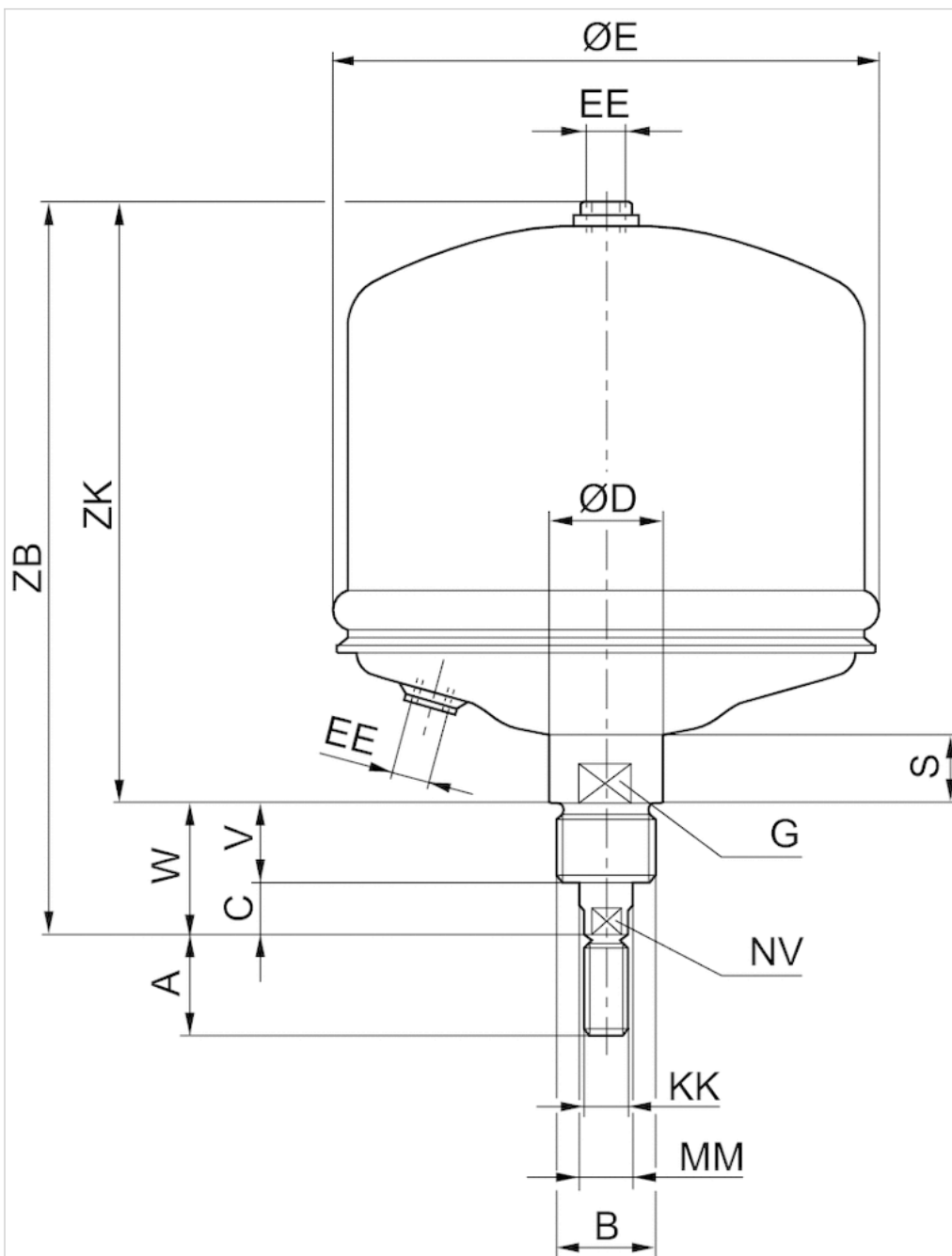
Technical information

Material

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

Dimensions

Dimensions



Dimensions

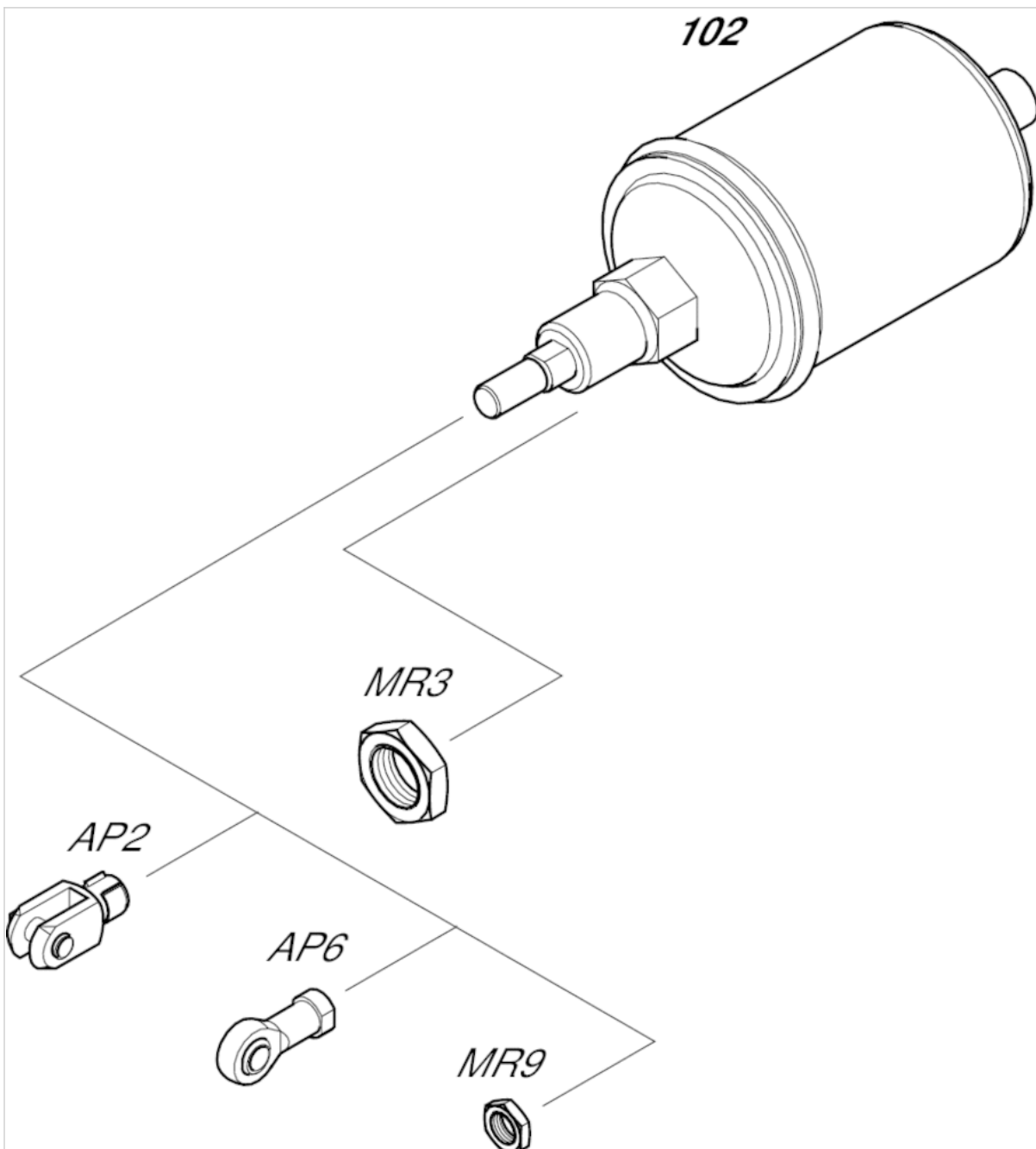
Piston Ø	A	B	C	D	E	G	S	V	W	EE	KK	MM	NV	ZB	ZK
250 mm	48	M48x3	20	56	268	50	33	40	60	G 1/2	M24	28	25	385	325

Weight [kg]

Piston Ø	S	Weight kg
250 mm	80	21.6 kg

Accessories overview

Overview drawing



NOTE:

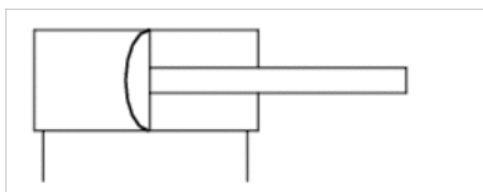
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Piston rod cylinders, Series 102

- Ø 250 mm
- Ports G 1/2
- double-acting
- Piston rod External thread
- fine thread



Compressed air connection	Internal thread
Working pressure min./max.	2 ... 8 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Pressure for determining piston forces	6 bar
Weight	21.6 kg



Technical data

Piston Ø	250 mm
Piston rod thread	M24x2
Ports	G 1/2
Stroke 80	1023300000

Technical data

Piston Ø	250 mm
Retracting piston force	24300 N
Extracting piston force	25000 N

Technical information

The pressure dew point must be at least 15 °C under 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 the MediaCentre).

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

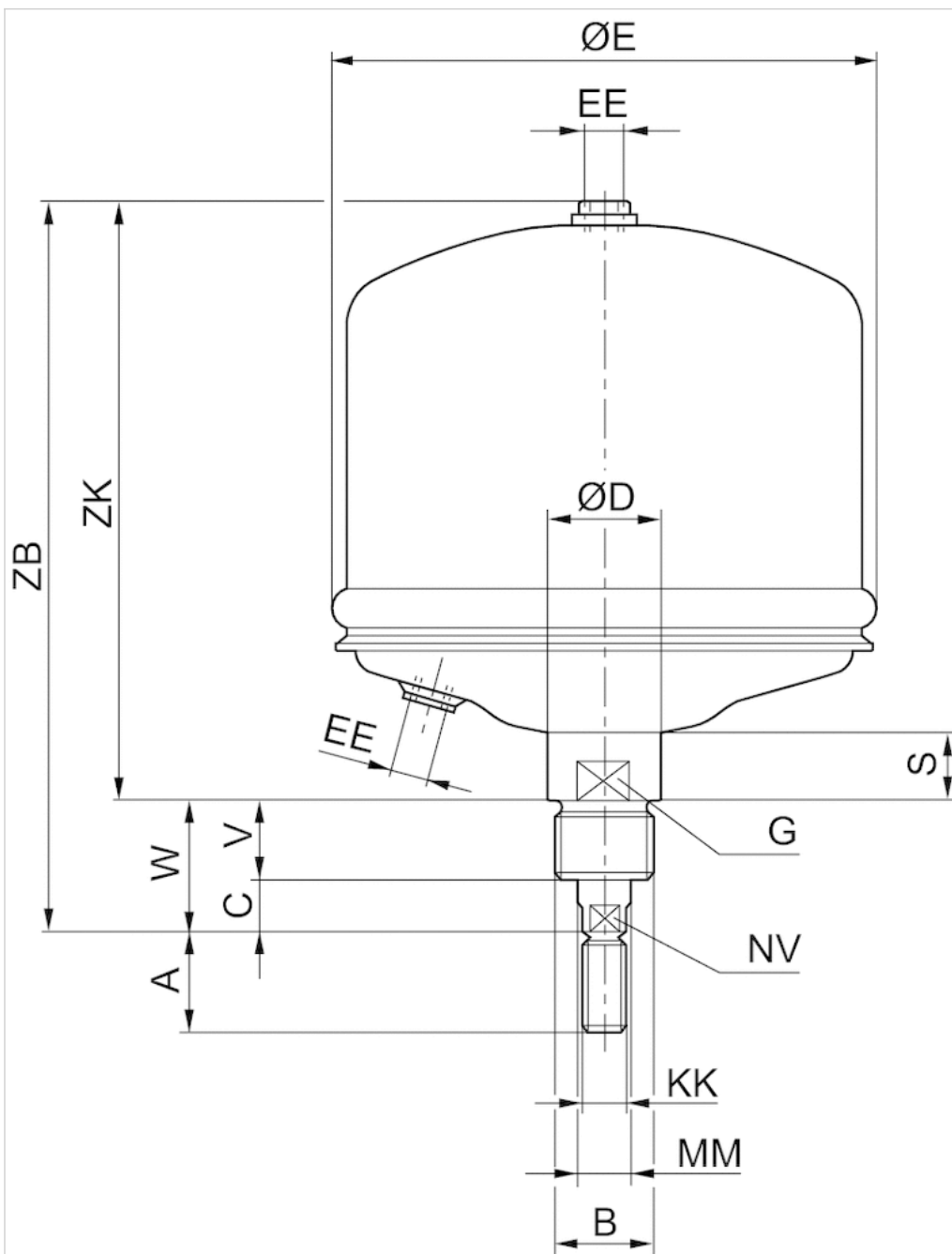
Technical information

Material

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

Dimensions

Dimensions



Dimensions

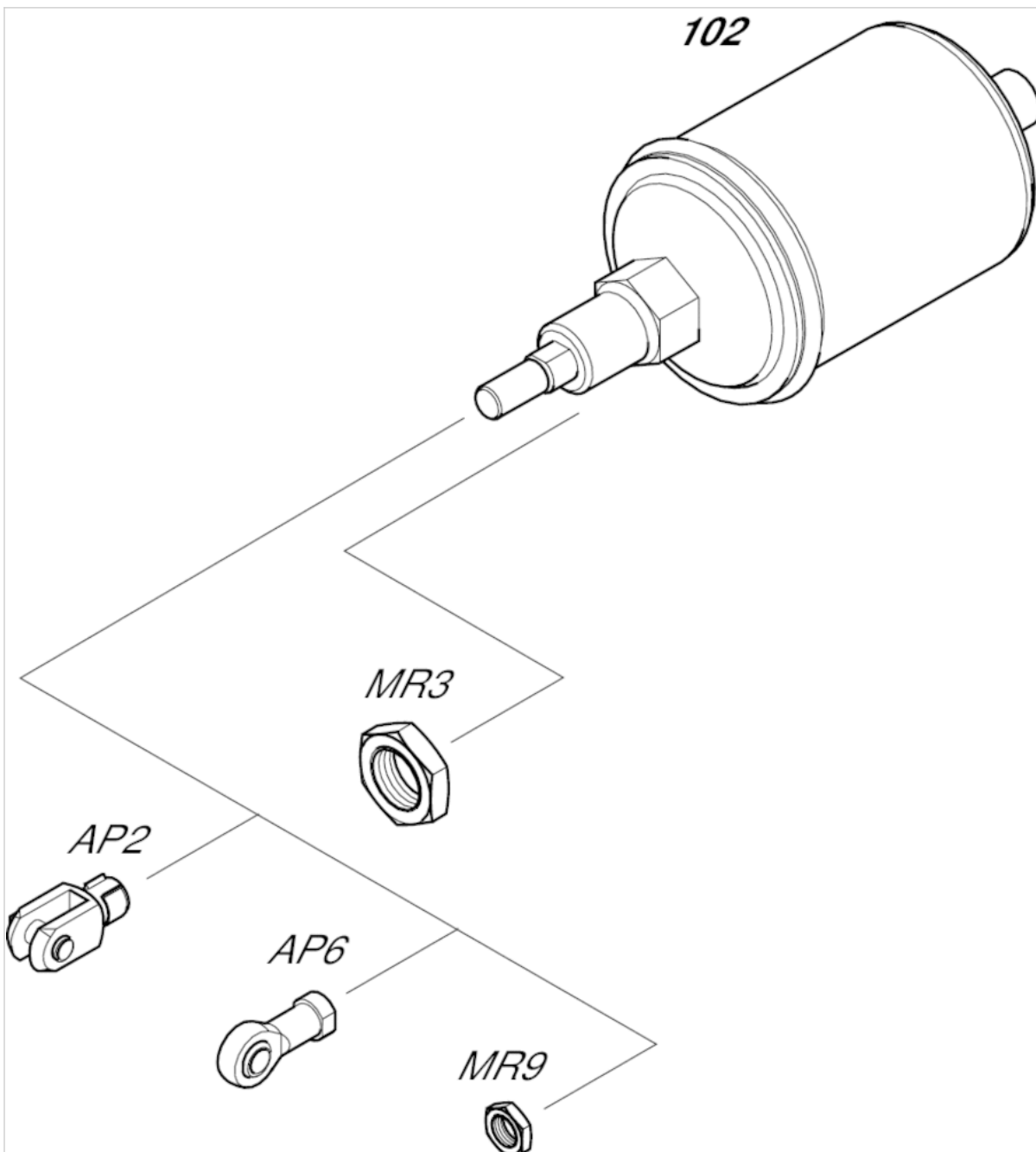
Piston Ø	A	B	C	D	E	G	S	V	W	EE	KK	MM	NV	ZB	ZK
250 mm	48	M48x3	20	56	268	50	33	40	60	G 1/2	M24x2	28	25	385	325

Weight [kg]

Piston Ø	S	Weight kg
250 mm	80	21.6 kg

Accessories overview

Overview drawing



NOTE:

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Nut MR3, series CM1

- for cylinder mounting
- Suitable piston Ø 80 60, 85 113, 160 250 mm
- for series 102



Weight

See table below

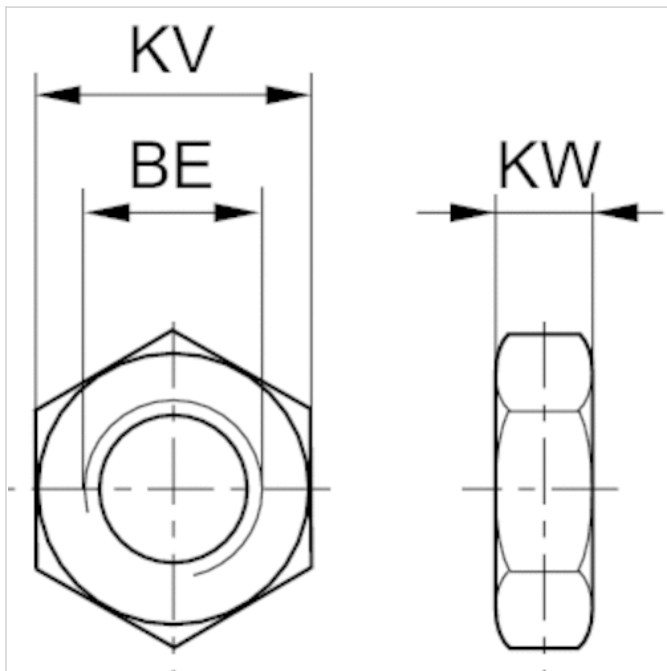
Technical data

Part No.	Piston Ø	Thread size	Weight
3008010180	80 mm	M24x2	0.04 kg
3056010180	60, 85 mm	M24	0.04 kg
3012010180	113, 160 mm	M36x3	0.13 kg
3075010180	250 mm	M48x3	0.18 kg

Technical information

Material	
Material	Steel
	galvanized

Dimensions



Dimensions

Part No.	Piston Ø	For series	BE	KV	KW
3008010180	80 mm	102	M24x2	36	8
3056010180	60, 85 mm	102	M24	36	8
3012010180	113, 160 mm	102	M36x3	52	10
3075010180	250 mm	102	M48x3	65	12

Piston rod nut MR9



Weight

See table below

Technical data

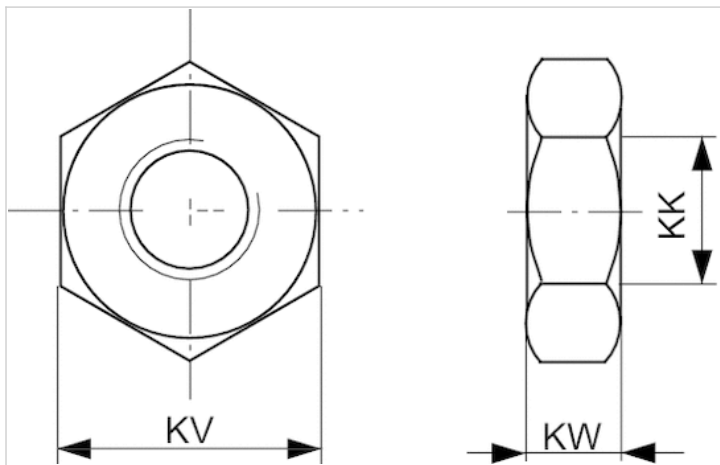
Part No.	Suitable piston rod thread	Material	Weight	
1823300030	M16x1,5	Steel, galvanized	0.017 kg	-
1823300031	M20x1,5	Steel, galvanized	0.03 kg	-
8103190394	M24x2	Steel, galvanized	0.06 kg	-
3590304000	M12x1,25	Stainless steel	0.02 kg	-
3590305000	M16x1,5	Stainless steel	0.03 kg	1)
3590308000	M20x1,5	Stainless steel	0.05 kg	-

1) 3590305000 can also be used as an MR3, nut for cylinder mounting.

Technical information

Material	
	Steel Stainless steel
	galvanized

Dimensions



Dimensions

Part No.	KK	KV	KW
1823300030	M16x1,5	24	8
1823300031	M20x1,5	30	10
8103190394	M24x2	36	12
3590304000	M12x1,25	19	6
3590305000	M16x1,5	24	8
3590308000	M20x1,5	30	10

Rod clevis AP2, Series CM2

- to mount on cylinder PRA, TRB, CCI, MNI, ICM, KPZ, KHZ, 167, CVI, RPC, RDC, ITS



Weight

See table below

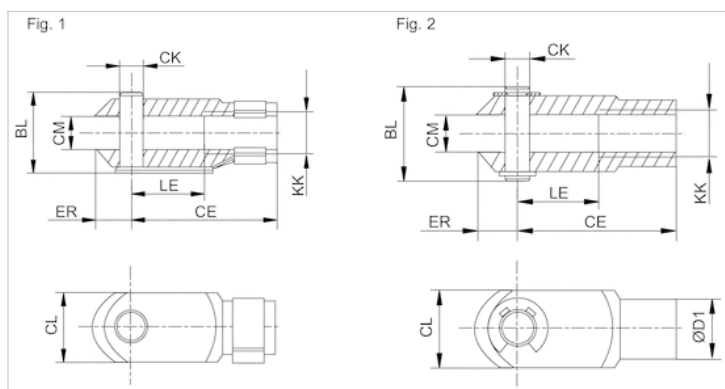
Technical data

Part No.	Suitable piston rod thread	for	Weight	Fig.
8958000132	M12	RPC 102	0.16 kg	Fig. 1
1822122025	M12x1,25	PRA TRB CCI KPZ 167 CVI RPC 102	0.16 kg	Fig. 1
1822122005	M16x1,5	PRA TRB CCI KPZ 167 CVI RPC RDC 102	0.4 kg	Fig. 1
1822122004	M20x1,5	PRA TRB KPZ 167 CVI 102	0.7 kg	Fig. 1

Technical information

Material	
	Steel
	galvanized

Dimensions



Dimensions

Part No.	KK	BL	CE	ØCK e11	CL	CM	ØD1	ER	LE	Fig.
8958000132	M12	31	48	12	24	12	20	14	24	Fig. 1
1822122025	M12x1,25	31	48	12	24	12	20	14	24	Fig. 1
1822122005	M16x1,5	39	64	16	32	16	26	19	32	Fig. 1
1822122004	M20x1,5	50	80	20	40	20	34	20	40	Fig. 1

Rod clevis PM6, Series CM2

- for ball eye rod end AP6



Technical data

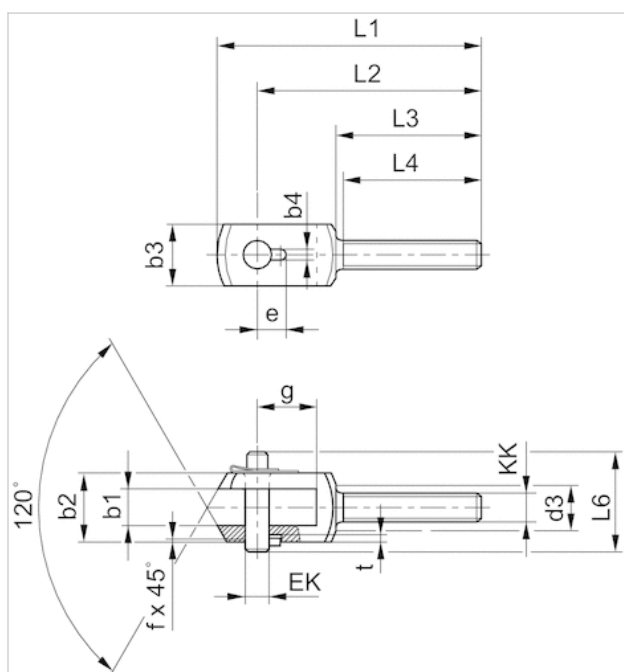
Part No.	for	Swivel bearing Ø
1822122033	AP6	16 mm
1822122035	AP6	25 mm

Scope of delivery incl. bolt

Technical information

Material	
	Steel
	galvanized

Dimensions



Dimensions

Part No.	b1 B12	b2 d12	b3	b4 +0,2	d3	e +0,3	EK	f	g	L1	L2	L3	L4 +1	L6	t +0,2
1822122033	16	30	25	4.3	19	12	12	1	26	108	92	58	55	39	3
1822122035	25	50	40	4.3	30	16	20	1	43	156	131	73	69	60	3

Ball eye rod end AP6, series CM2

- with flange to mount on cylinder PRA, TRB, CCI, SSI, MNI, RPC, KPZ, 167, CVI, RDC, 102, ITS



Weight

See table below

Technical data

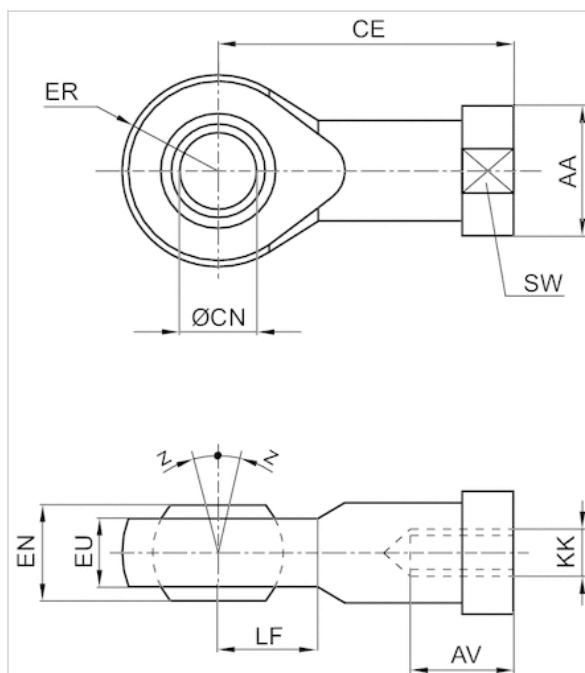
Part No.	Suitable piston rod thread	for	Swivel bearing Ø
1822124004	M12x1,25	PRA TRB CCI SSI RPC KPZ 167 CVI 102	304.8 mm
1822124005	M16x1,5	PRA TRB CCI SSI RPC KPZ 167 CVI RDC 102	406.4 mm
1822124006	M20x1,5	PRA TRB KPZ 167 CVI 102	508 mm
8958208002	M24x2	102	635 mm

Part No.	Weight
1822124004	0.12 kg
1822124005	0.21 kg
1822124006	0.38 kg
8958208002	0.73 kg

Technical information

Material	
	Steel
	galvanized

Dimensions



Dimensions

Part No.	KK	AA	AV min.	CE	Ø CN H7	EN -0,1	ER	EU max.	LF	SW	Z [°] max.
1822124004	M12x1,25	22	18	50	12	16	16	12.5	16	19	4
1822124005	M16x1,5	27	24	64	16	21	21	15.5	21	22	4
1822124006	M20x1,5	34	30	77	20	25	25	18.5	25	30	4
8958208002	M24x2	42	36	94	25	31	30	23	30	36	15

Ball eye rod end AP6, series CM2

- with flange to mount on cylinder PRA, TRB, CCL-IS/-IC, CCI, SSI, KPZ, 167, CVI, RPC, ITS



Weight

See table below

Technical data

Part No.	Suitable piston rod thread	for	Swivel bearing Ø
3660904000	M12x1,25	PRA TRB CCI SSI RPC KPZ 167 CVI 102	304.8 mm
3660905000	M16x1,5	PRA TRB CCI SSI RPC KPZ 167 CVI RDC 102	406.4 mm
3660908000	M20x1,5	PRA TRB KPZ 167 CVI 102	508 mm

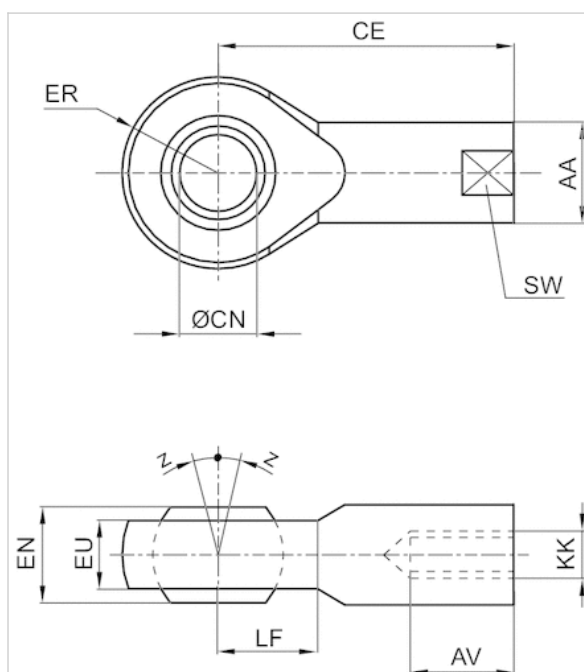
Part No.	Weight
3660904000	0.12 kg
3660905000	0.28 kg
3660908000	0.44 kg

narrow version

Technical information

Material
Steel
galvanized

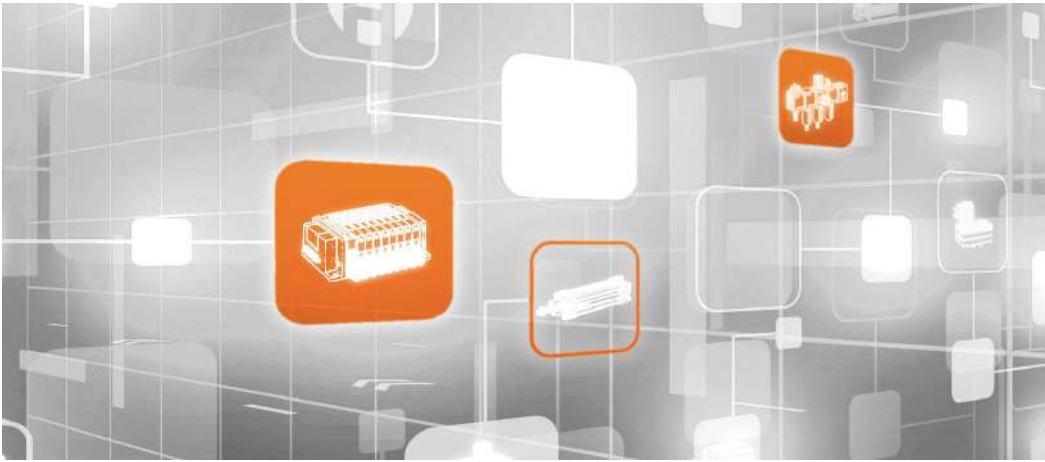
Dimensions



Dimensions

Part No.	KK	AA	AV min.	CE	$\varnothing CN H7$	EN $-0,1$	ER	EU max.	LF	SW	Z [°] max.
3660904000	M12x1,25	22	16	50	12	12	17	8	16	19	8
3660905000	M16x1,5	29	24	67	16	16	23	11	20	24	8
3660908000	M20x1,5	34	30	77	20	20	26,5	13	23	30	8

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