

Round cylinder, Series RPC

- Version: mini type
- Ø 32-63 mm
- Ports G 1/8 G 1/4 G 3/8
- double-acting
- with magnetic piston
- Cushioning elastic non-adjustable
- with trunnion mounting
- Piston rod External thread



Compressed air connection	Internal thread
Working pressure min./max.	1 ... 10 bar
Ambient temperature min./max.	-20 ... 80 °C
Medium temperature min./max.	-20 ... 80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Pressure for determining piston forces	6.3 bar

Technical data

Piston Ø Piston rod thread Ports Piston rod Ø	32 mm M10x1,25 G 1/8 12 mm	40 mm M12x1,25 G 1/4 16 mm	50 mm M16x1,5 G 1/4 20 mm	63 mm M16x1,5 G 3/8 20 mm
Stroke 25	R412020640	R412020651	R412020662	R412020673
50	R412020641	R412020652	R412020663	R412020674
80	R412020642	R412020653	R412020664	R412020675
100	R412020643	R412020654	R412020665	R412020676
125	R412020644	R412020655	R412020666	R412020677
160	R412020645	R412020656	R412020667	R412020678
200	R412020646	R412020657	R412020668	R412020679
250	R412020647	R412020658	R412020669	R412020680
320	R412020648	R412020659	R412020670	R412020681
400	R412020649	R412020660	R412020671	R412020682
500	R412020650	R412020661	R412020672	R412020683

Technical data

Piston Ø	32 mm	40 mm	50 mm	63 mm
Retracting piston force	435 N	660 N	1035 N	1765 N
Extracting piston force	505 N	790 N	1235 N	1960 N
Impact energy	0,8 J	1,04 J	1,28 J	1,5 J
Weight 0 mm stroke	0,3 kg	0,56 kg	0,88 kg	1,63 kg
Weight +10 mm stroke	0,015 kg	0,024 kg	0,04 kg	0,044 kg
Stroke max.	1200 mm	1200 mm	1200 mm	1200 mm

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).

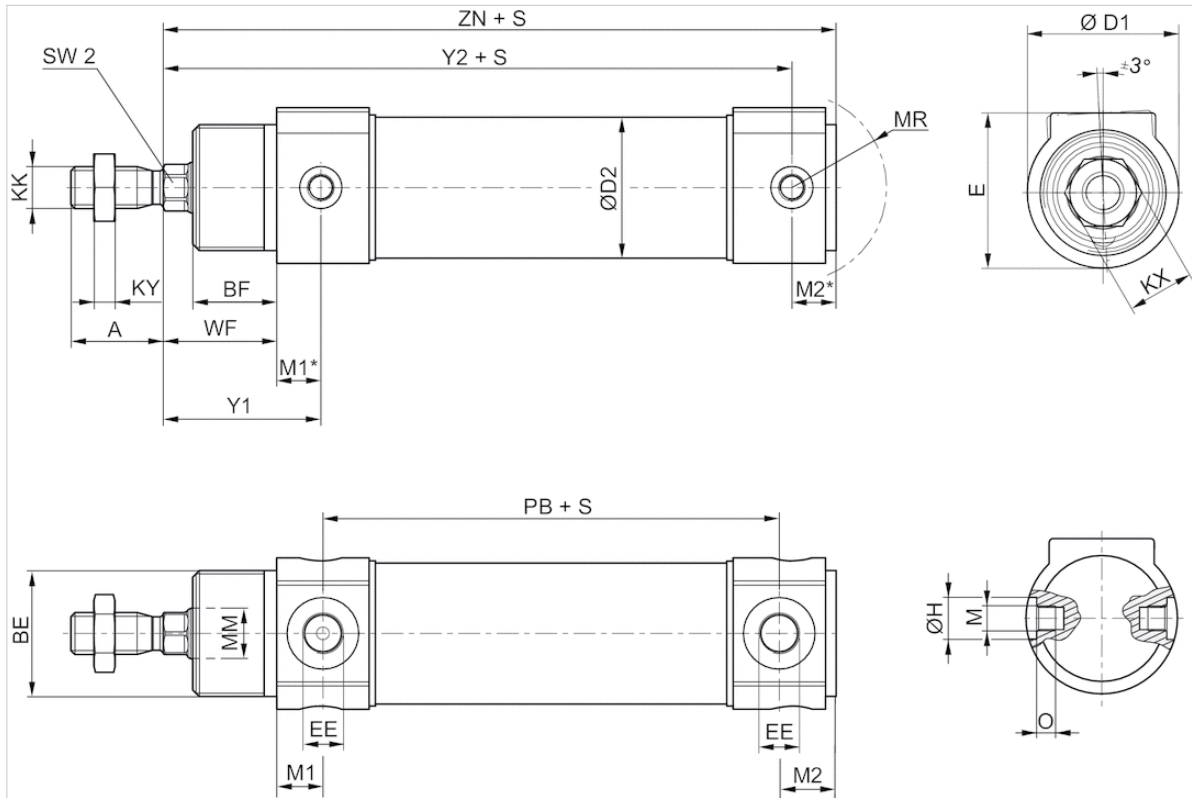
Clamping piece for magnetic field sensor necessary

Technical information

Material	
Cylinder tube	Stainless steel
Piston rod	Stainless steel
Piston	Aluminum
Front cover	Aluminum
End cover	Aluminum, anodized
Seal	Polyurethane
Nut for piston rod	Steel, galvanized
Scraper	Polyurethane
Guide bushing	Steel

Dimensions

Dimensions



S=stroke

Dimensions

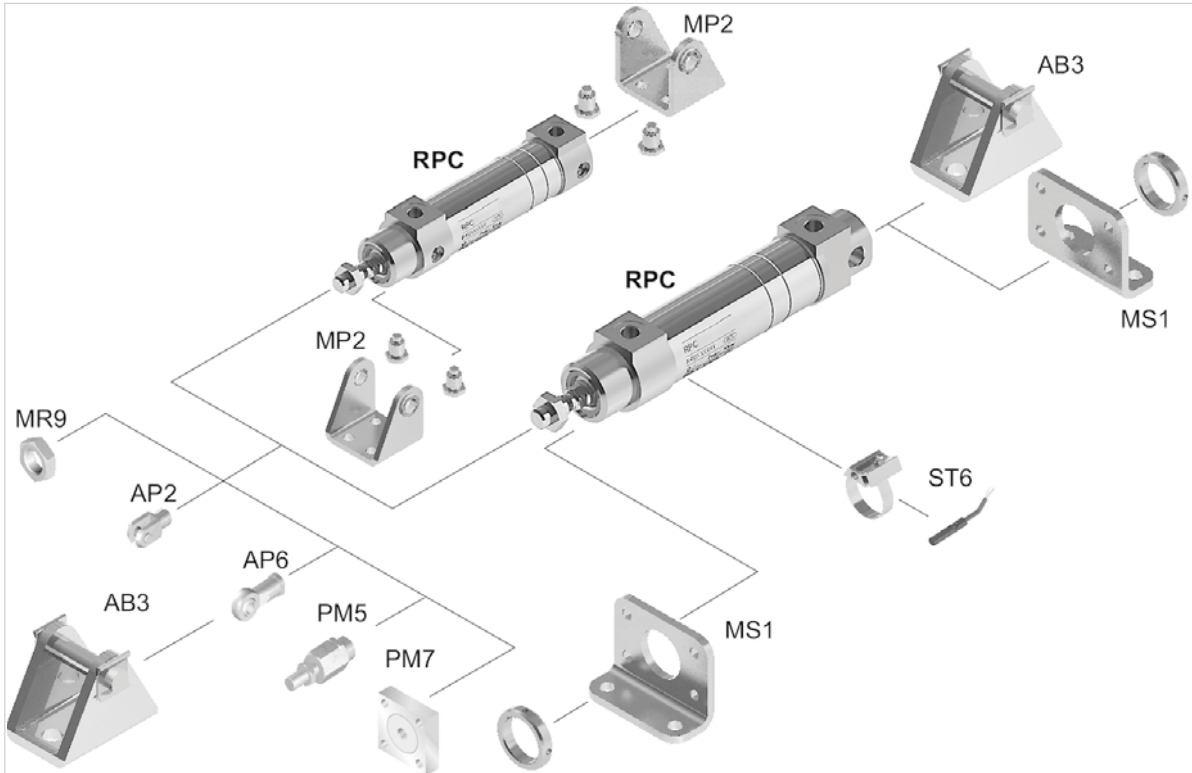
Piston Ø	A	BE	BF	Ø D1	Ø D2	E	EE	Ø H	KK	KX	KY	M	Ø MM f8	M1
32 mm	22	M30x1,5	20	36	33.5	37	G 1/8	10	M10x1,25*	16	5	M6x0,5	12	11
40 mm	24	M38x1.5	23	45	41.5	45	G 1/4	12	M12x1,25*	19	6	M6x0,5	16	11.5
50 mm	32	M45x1,5	24	55	52.5	55	G 1/4	14	M16x1,5	24	8	M8x0,75	20	11.5
63 mm	32	M45x1,5	26.5	69	65.4	69	G 3/8	16	M16x1,5	24	8	M8x0,75	20	13.5

Piston Ø	M1*	M2	M2*	MR	O	PB	SW2	WF	Y1	Y2	ZN
32 mm	10.5	13.5	10.5	22.5	4.5	58.5	10	27	37.5	99.5	110
40 mm	12	14	12.5	25.5	4.5	76	13	32	43	120	132.5
50 mm	10	14	12.5	31	7.5	75.5	17	33.5	43.5	122	134.5
63 mm	16	16	11.5	37.5	7.5	79	17	36.5	52.5	134	145.5

* Use our Internet configurator to order these variants with coarse-pitch thread M10x1.5 or M12x1.75.

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.

Round cylinder, Series RPC

- Version: compact type
- Ø 32-63 mm
- Ports G 1/8 G 1/4 G 3/8
- double-acting
- with magnetic piston
- Cushioning elastic non-adjustable
- with integrated rear eye
- Piston rod External thread



Compressed air connection	Internal thread
Working pressure min./max.	1 ... 10 bar
Ambient temperature min./max.	-20 ... 80 °C
Medium temperature min./max.	-20 ... 80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Pressure for determining piston forces	6.3 bar

Technical data

Piston Ø Piston rod thread Ports Piston rod Ø	32 mm M10x1,25 G 1/8 12 mm	40 mm M12x1,25 G 1/4 16 mm	50 mm M16x1,5 G 1/4 20 mm	63 mm M16x1,5 G 3/8 20 mm
Stroke 25	R412020684	R412020695	R412020706	R412020717
50	R412020685	R412020696	R412020707	R412020718
80	R412020686	R412020697	R412020708	R412020719
100	R412020687	R412020698	R412020709	R412020720
125	R412020688	R412020699	R412020710	R412020721
160	R412020689	R412020700	R412020711	R412020722
200	R412020690	R412020701	R412020712	R412020723
250	R412020691	R412020702	R412020713	R412020724
320	R412020692	R412020703	R412020714	R412020725
400	R412020693	R412020704	R412020715	R412020726
500	R412020694	R412020705	R412020716	R412020727

Technical data

Piston Ø	32 mm	40 mm	50 mm	63 mm
Retracting piston force	435 N	660 N	1035 N	1765 N
Extracting piston force	505 N	790 N	1235 N	1960 N
Impact energy	0,8 J	1,04 J	1,28 J	1,5 J
Weight 0 mm stroke	0,33 kg	0,58 kg	0,92 kg	1,62 kg
Weight +10 mm stroke	0,015 kg	0,024 kg	0,04 kg	0,044 kg
Stroke max.	1200 mm	1200 mm	1200 mm	1200 mm

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).

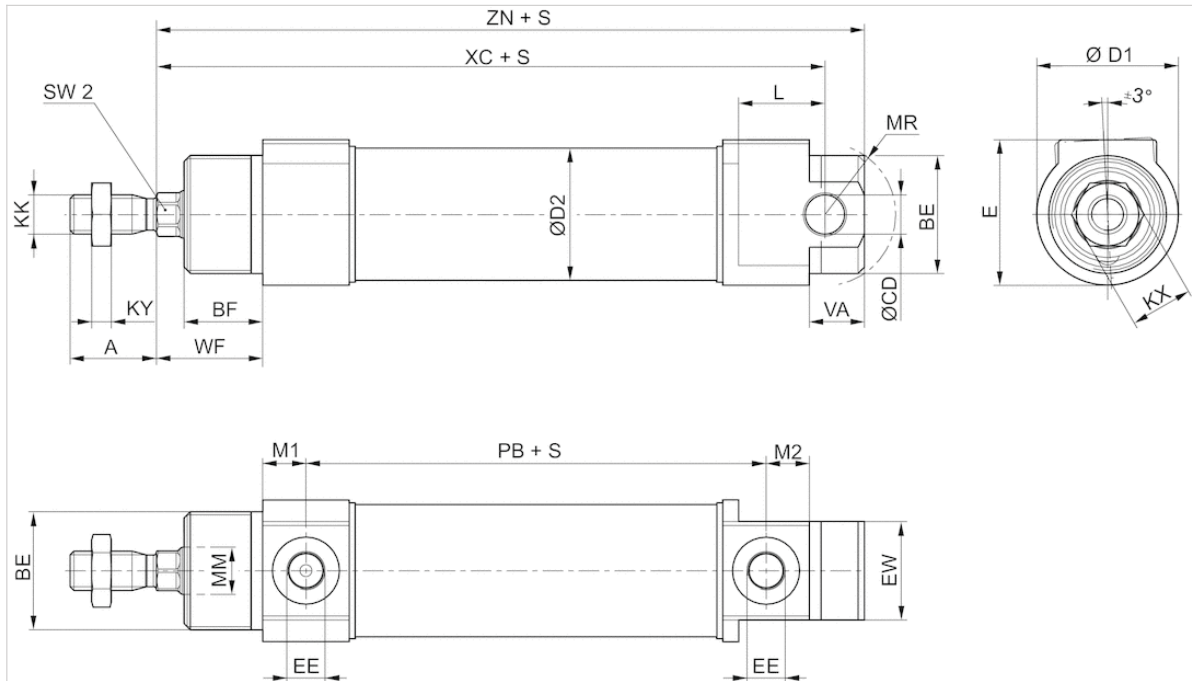
Clamping piece for magnetic field sensor necessary

Technical information

Material	
Cylinder tube	Stainless steel
Piston rod	Stainless steel
Piston	Aluminum
Front cover	Aluminum, anodized
End cover	Aluminum, anodized
Seal	Polyurethane
Nut for piston rod	Steel, galvanized
Scraper	Polyurethane
Guide bushing	Steel

Dimensions

Dimensions



S=stroke

Dimensions

Piston Ø	A	BE	BF	Ø CD H8	Ø D1	Ø D2	E	EE	EW	KK	KX	KY	L 1)
32 mm	22	M30x1,5	20	10	36	33.5	37	G 1/8	25	M10x1,25*	16	5	22
40 mm	24	M38x1.5	23	12	45	41.5	45	G 1/4	30	M12x1,25*	19	6	23
50 mm	32	M45x1,5	24	12	55	52.5	55	G 1/4	35	M16x1,5	24	8	26
63 mm	32	M45x1,5	26.5	16	69	65.4	69	G 3/8	35	M16x1,5	24	8	29

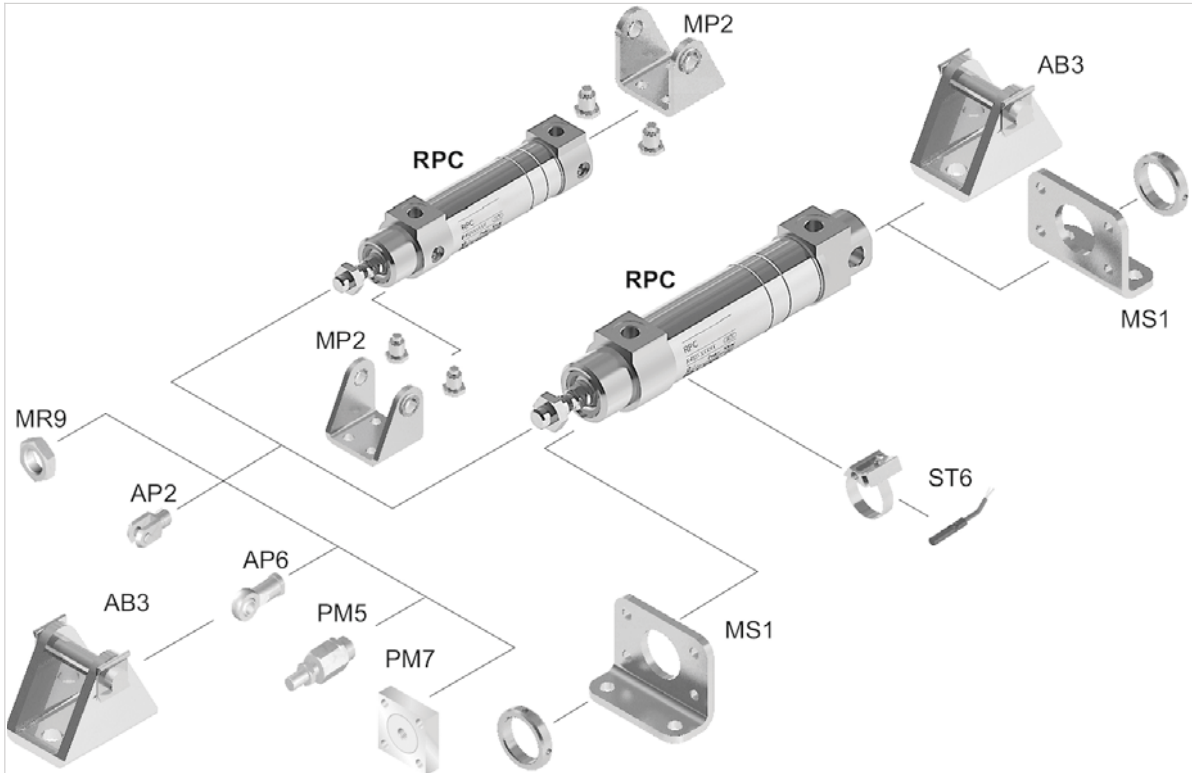
Piston Ø	Ø MM f8	M1	M2	MR	PB	SW2	VA	WF	XC	ZN
32 mm	12	11	11	18	67	10	14	27	120	130
40 mm	16	11.5	11.5	22.5	78	13	15	32	136	147
50 mm	20	11.5	11.5	25.5	77.5	17	18	33.5	141	152
63 mm	20	13.5	13.5	36.5	81.5	17	20	36.5	151	165

* Use our Internet configurator to order these variants with coarse-pitch thread M10x1.5 or M12x1.75.

1) Min.

Accessories overview

Overview drawing

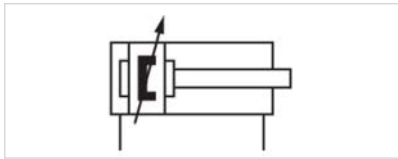


NOTE:

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.

Round cylinder, Series RPC

- Version: standard type
- Ø 32-63 mm
- Ports G 1/8 G 1/4 G 3/8
- double-acting
- with magnetic piston
- Cushioning Pneumatically adjustable
- with integrated rear eye
- Piston rod External thread



Compressed air connection	Internal thread
Working pressure min./max.	1 ... 10 bar
Ambient temperature min./max.	-20 ... 80 °C
Medium temperature min./max.	-20 ... 80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Pressure for determining piston forces	6.3 bar

Technical data

Piston Ø Piston rod thread Ports Piston rod Ø	32 mm M10x1,25 G 1/8 12 mm	40 mm M12x1,25 G 1/4 16 mm	50 mm M16x1,5 G 1/4 20 mm	63 mm M16x1,5 G 3/8 20 mm
Stroke 25	R412020728	R412020739	R412020750	R412020761
50	R412020729	R412020740	R412020751	R412020762
80	R412020730	R412020741	R412020752	R412020763
100	R412020731	R412020742	R412020753	R412020764
125	R412020732	R412020743	R412020754	R412020765
160	R412020733	R412020744	R412020755	R412020766
200	R412020734	R412020745	R412020756	R412020767
250	R412020735	R412020746	R412020757	R412020768
320	R412020736	R412020747	R412020758	R412020769
400	R412020737	R412020748	R412020759	R412020770
500	R412020738	R412020749	R412020760	R412020771

Technical data

Piston Ø	32 mm	40 mm	50 mm	63 mm
Retracting piston force	435 N	660 N	1035 N	1765 N
Extracting piston force	505 N	790 N	1235 N	1960 N
Cushioning length	16,5 mm	19 mm	17 mm	16,5 mm
Cushioning energy	4,8 J	9 J	15 J	27 J
Weight 0 mm stroke	0,34 kg	0,58 kg	0,96 kg	1,3 kg
Weight +10 mm stroke	0,015 kg	0,024 kg	0,04 kg	0,044 kg
Stroke max.	1200 mm	1200 mm	1200 mm	1200 mm

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).

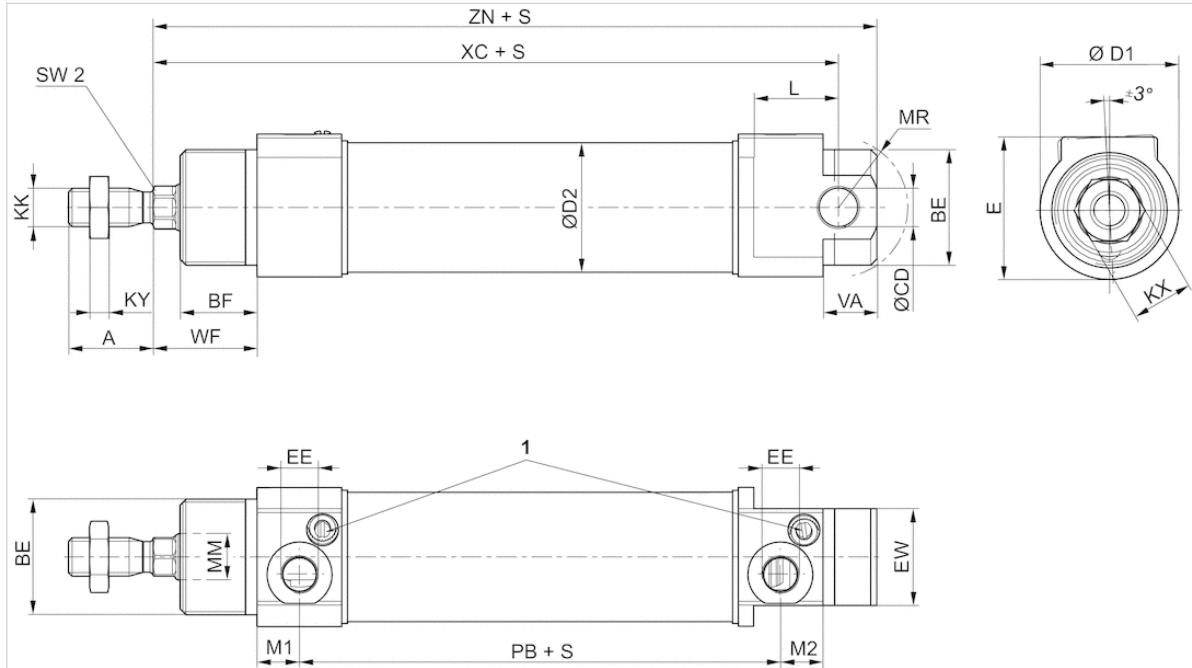
Clamping piece for magnetic field sensor necessary

Technical information

Material	
Cylinder tube	Stainless steel
Piston rod	Stainless steel
Piston	Polyamide, fiber-glass reinforced
Front cover	Aluminum, anodized
End cover	Aluminum, anodized
Seal	Polyurethane
Nut for piston rod	Steel, galvanized
Scraper	Polyurethane
Guide bushing	Steel

Dimensions

Dimensions



S=stroke

1) Slot in throttle screw 1 mm

Dimensions

Piston Ø	A	BE	BF	Ø CD H8	Ø D1	Ø D2	E	EE	EW	KK	KX	KY	L 1)
32 mm	22	M30x1,5	20	10	36	33.5	37	G 1/8	25	M10x1,25*	16	5	22
40 mm	24	M38x1.5	23	12	45	41.5	45	G 1/4	30	M12x1,25*	19	6	23
50 mm	32	M45x1,5	24	12	55	52.5	55	G 1/4	35	M16x1,5	24	8	26
63 mm	32	M45x1,5	26.5	16	69	65.4	69	G 3/8	35	M16x1,5	24	8	29

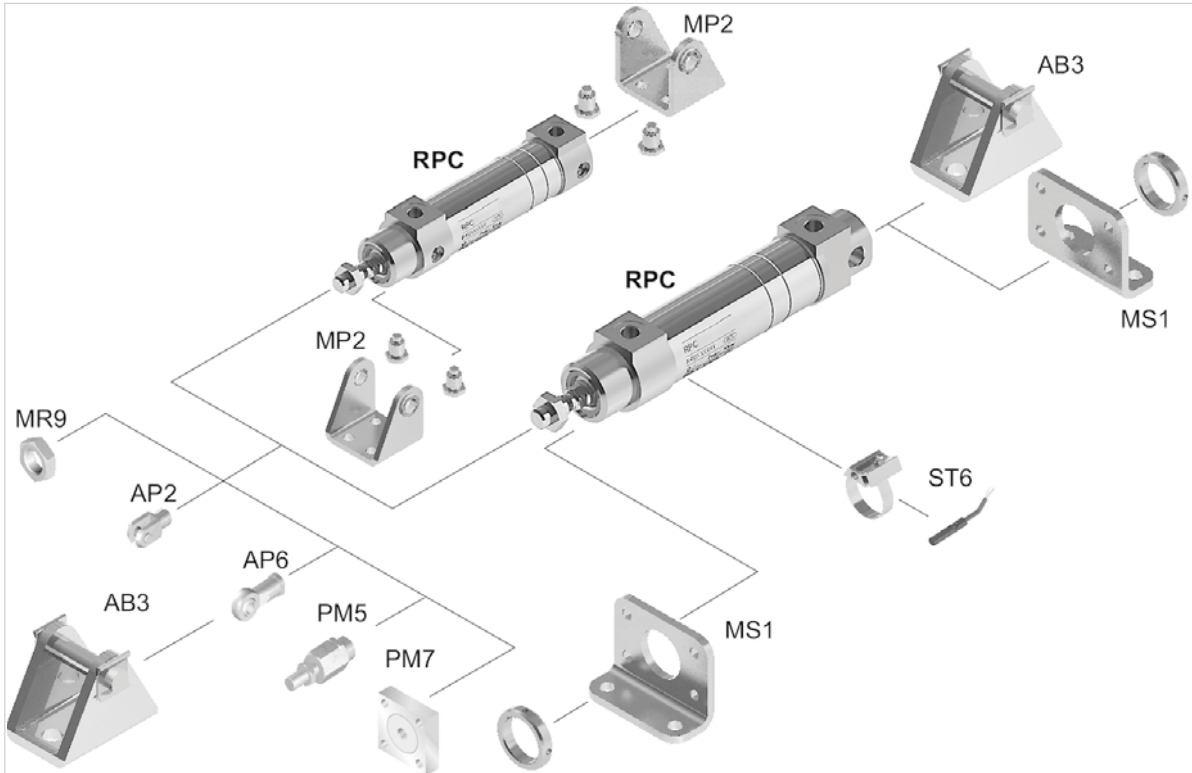
Piston Ø	Ø MM f8	M1	M2	MR	PB	SW2	VA	WF	XC	ZN
32 mm	12	11	11	18	75	10	14	27	128	138
40 mm	16	11.5	11.5	22.5	87	13	15	32	146	157
50 mm	20	11.5	11.5	25.5	87.5	17	18	33.5	151	162
63 mm	20	13	13.5	36.5	92	17	20	36.5	161	175

* Use our Internet configurator to order these variants with coarse-pitch thread M10x1.5 or M12x1.75.

1) Min.

Accessories overview

Overview drawing

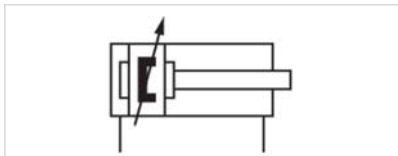


NOTE:

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Round cylinder, Series RPC

- Version: Standard type, heat-resistant
- Ø 32-63 mm
- Ports G 1/8 G 1/4 G 3/8
- double-acting
- with magnetic piston
- Cushioning Pneumatically adjustable
- with integrated rear eye
- Piston rod External thread
- Heat resistant



Compressed air connection	Internal thread
Working pressure min./max.	1 ... 10 bar
Ambient temperature min./max.	-10 ... 150 °C
Medium temperature min./max.	-10 ... 150 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Pressure for determining piston forces	6.3 bar

Technical data

Piston Ø Piston rod thread Ports Piston rod Ø	32 mm M10x1,25 G 1/8 12 mm	40 mm M12x1,25 G 1/4 16 mm	50 mm M16x1,5 G 1/4 20 mm	63 mm M16x1,5 G 3/8 20 mm
Stroke 25	R412020772	R412020783	R412020794	R412020805
50	R412020773	R412020784	R412020795	R412020806
80	R412020774	R412020785	R412020796	R412020807
100	R412020775	R412020786	R412020797	R412020808
125	R412020776	R412020787	R412020798	R412020809
160	R412020777	R412020788	R412020799	R412020810
200	R412020778	R412020789	R412020800	R412020811
250	R412020779	R412020790	R412020801	R412020812
320	R412020780	R412020791	R412020802	R412020813
400	R412020781	R412020792	R412020803	R412020814
500	R412020782	R412020793	R412020804	R412020815

Technical data

Piston Ø	32 mm	40 mm	50 mm	63 mm
Retracting piston force	435 N	660 N	1035 N	1765 N
Extracting piston force	505 N	790 N	1235 N	1960 N
Cushioning length	16,5 mm	19 mm	17 mm	16,5 mm
Cushioning energy	4,8 J	9 J	15 J	27 J
Weight 0 mm stroke	0,37 kg	0,66 kg	1,38 kg	1,4 kg
Weight +10 mm stroke	0,015 kg	0,024 kg	0,04 kg	0,044 kg
Stroke max.	1200 mm	1200 mm	1200 mm	1200 mm

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).

Clamping piece for magnetic field sensor necessary

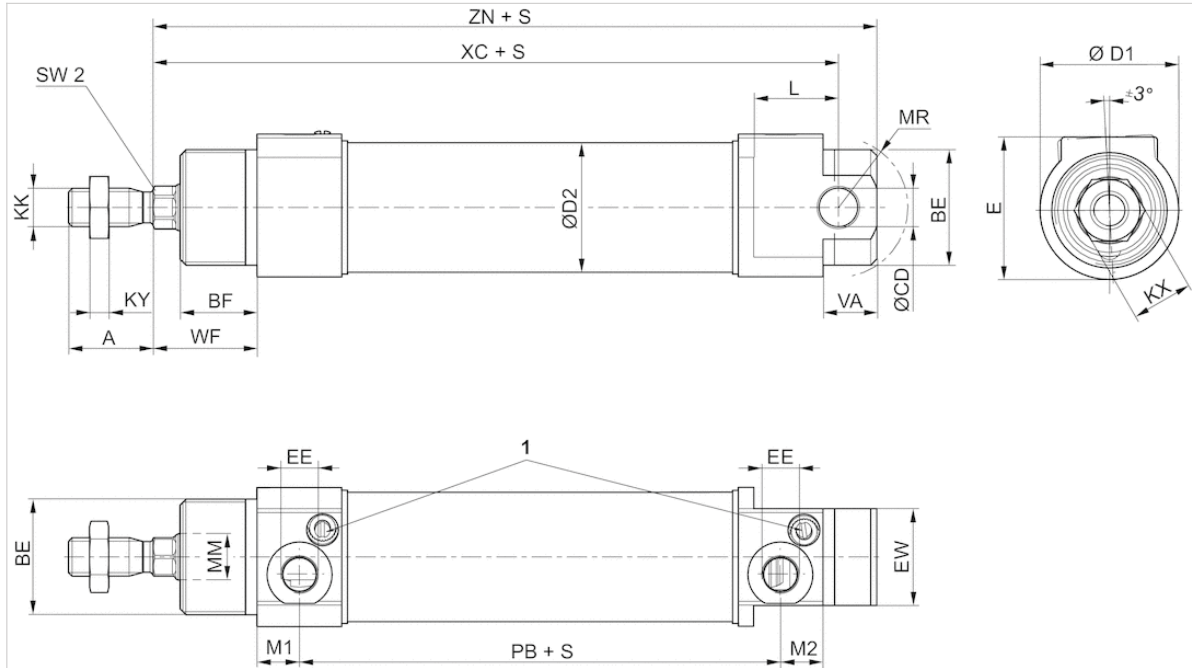
Ambient temperature with contact query max. 120 °C

Technical information

Material	
Cylinder tube	Stainless steel
Piston rod	Stainless steel
Piston	Aluminum
Front cover	Aluminum, anodized
End cover	Aluminum, anodized
Seal	Fluorocautchouc
Nut for piston rod	Steel, galvanized
Scraper	Fluorocautchouc
Guide bushing	Steel

Dimensions

Dimensions



S=stroke

1) Slot in throttle screw 1 mm

Dimensions

Piston Ø	A	BE	BF	Ø CD H8	Ø D1	Ø D2	E	EE	EW	KK	KX	KY	L 1)
32 mm	22	M30x1,5	20	10	36	33.5	37	G 1/8	25	M10x1,25*	16	5	22
40 mm	24	M38x1.5	23	12	45	41.5	45	G 1/4	30	M12x1,25*	19	6	23
50 mm	32	M45x1,5	24	12	55	52.5	55	G 1/4	35	M16x1,5	24	8	26
63 mm	32	M45x1,5	26.5	16	69	65.4	69	G 3/8	35	M16x1,5	24	8	29

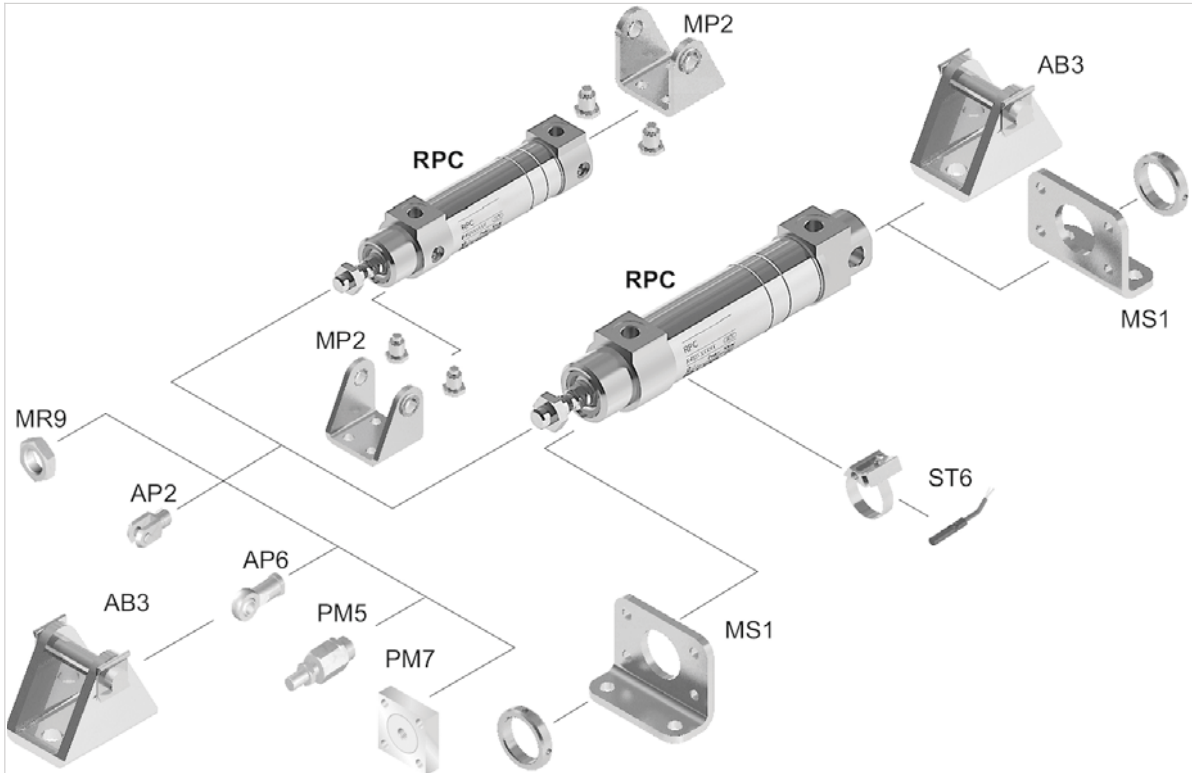
Piston Ø	Ø MM f8	M1	M2	MR	PB	SW2	VA	WF	XC	ZN
32 mm	12	11	11	18	75	10	14	27	128	138
40 mm	16	11.5	11.5	22.5	87	13	15	32	146	157
50 mm	20	11.5	11.5	25.5	87.5	17	18	33.5	151	162
63 mm	20	13	13.5	36.5	92	17	20	36.5	161	175

* Use our Internet configurator to order these variants with coarse-pitch thread M10x1.5 or M12x1.75.

1) Min.

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.