

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
- ATEX optional



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

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

ATEX-certified cylinders with identification II 2G Ex h IIC T4 Gb / II 2D Ex h IIC T135°C Db_X can be generated in the Internet configurator.

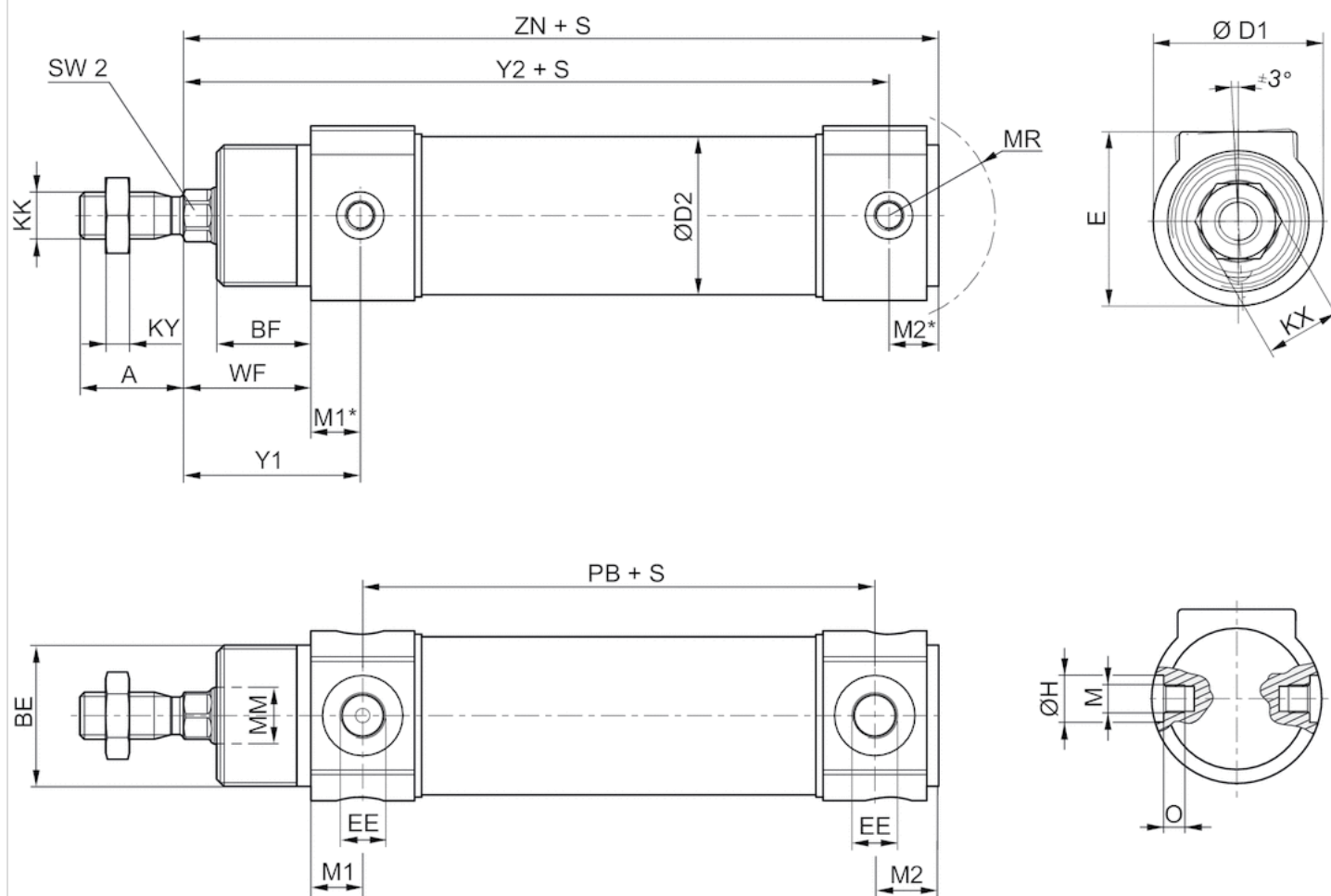
The operating temperature range for ATEX-certified cylinders is -20°C ... 60°C.

Technical information

Material	
Cylinder tube	Stainless steel
Piston rod	Stainless steel
Front cover	Aluminum, anodized
End cover	Aluminum, anodized
Seal	Polyurethane
Nut for piston rod	Steel, galvanized
Scraper	Polyurethane
Guide bushing	Steel
Grease	AGF (NSF-H1)

Dimensions

Dimensions



S=stroke

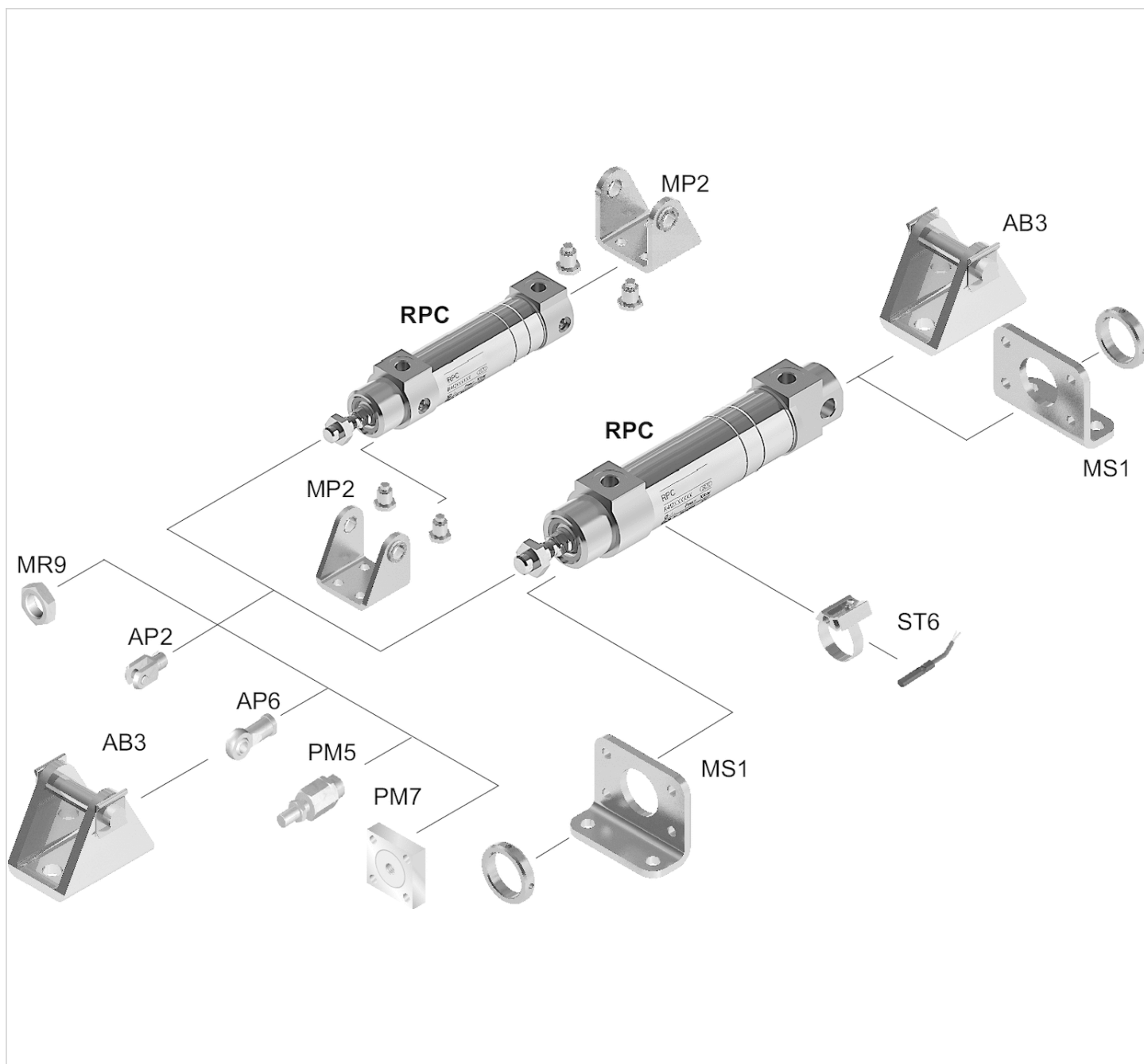
Dimensions

Piston \varnothing	A	BE	BF	$\varnothing D1$	$\varnothing D2$	E	EE	$\varnothing H$	KK	KX	KY	M	$\varnothing MM f8$	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

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.

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