Round cylinder, Series RPC

R412020702

AVENTICS Series RPC Round cylinders

2024-04-05

AVENTICS Series RPC Round cylinders

The AVENTICS Series RPC round profile cylinders offer a wide variety of connection options. They are easy to clean and suitable for packaging applications in the food industry due to food grade lubricants. The Series RPC can also be used in standard applications across machine automation needs.





Industrial
Version: compact type
40 mm
250 mm
G 1/4
Double-acting
Elastic cushioning
Piston with magnet
Industry standard ATEX optional
External thread
M12x1,25
single
Standard Industry Scraper
6,3 bar
660 N
790 N
-20 °C
80 °C
1 bar



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Max working processing	10 hor	S
Max. working pressure	10 bar 2024-04-0	5
Impact energy	<u> </u>	<u> </u>
Weight 0 mm stroke	0.58 kg	
Weight +10 mm stroke	0.024 kg	
Stroke max.	1200 mm	
Medium	Compressed air	
Min. medium temperature	-20 °C	
Max. medium temperature	80 °C	
Max. particle size	50 µm	
Min. oil content of compressed air	0 mg/m³	
Max. oil content of compressed air	5 mg/m³	
Clamping piece for magnetic field sensor necessary	Clamping piece for magnetic field sensor necessary	

Material	
Piston rod	Stainless Steel
Scraper material	Polyurethane
Seal material	Polyurethane
Material, front cover	Aluminum
Cylinder tube	Stainless Steel
End cover	Aluminum
Nut for piston rod	Steel, chrome-plated
Guide bushing	Steel, chrome-plated
Part No.	R412020702

Technical information

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 IIIC T135°C Db_X can be generated in the Internet configurator.

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

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).



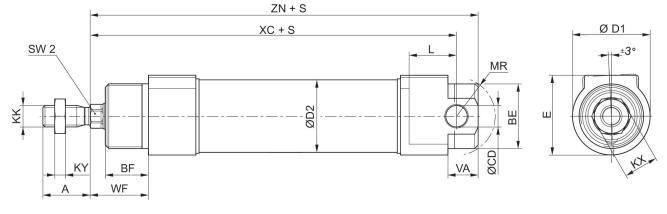
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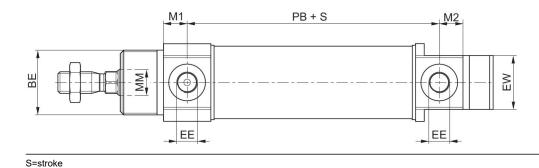
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Dimensions

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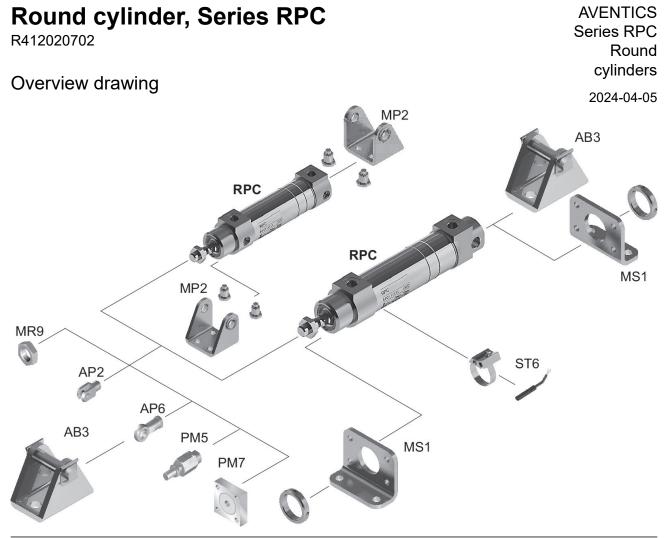




32 22 M30x1,5 20 10 36 33.5 37 G 1/8 25 40 24 M38x1.5 23 12 45 41.5 45 G 1/4 30 32 M45x1,5 24 12 55 52.5 55 G 1/4 35 50 63 32 M45x1,5 26.5 16 69 65.4 69 G 3/8 35 32 M10x1,25* 16 5 22 12 11 11 18 67 M12x1,25* 6 11.5 11.5 22.5 78 40 19 23 16 M16x1,5 8 26 20 11.5 11.5 25.5 77.5 50 24 M16x1,5 8 29 63 24 20 13.5 13.5 36.5 81.5

Piston Ø	SW2	VA	WF	XC	ZN
32	10	14	27	120	130
40	13	15	32	136	147
50	17	18	33.5	141	152
63	17	20	36.5	151	165





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.

