Round cylinder, Series RPC

R412020714

AVENTICS Series RPC Round cylinders

2024-04-05

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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.





Technical data	
Industry	Industrial
Туре	Version: compact type
Piston Ø	50 mm
Stroke	320 mm
Ports	G 1/4
Functional principle	Double-acting
Cushioning	Elastic cushioning
Magnetic piston	Piston with magnet
Environmental requirements	Industry standard ATEX optional
Piston rod thread - type	External thread
Piston rod thread	M16x1,5
Piston rod	single
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Retracting piston force	1035 N
Extracting piston force	1235 N
Min. ambient temperature	-20 °C
Max. ambient temperature	80 °C
Min. working pressure	1 bar



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Max working processor		cylinders
Max. working pressure	10 bar	2024-04-05
Impact energy	<u> 1.28 J </u>	2024-04-03
Weight 0 mm stroke	0.92 kg	
Weight +10 mm stroke	0.04 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 sens necessary	or

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.	R412020714		

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).



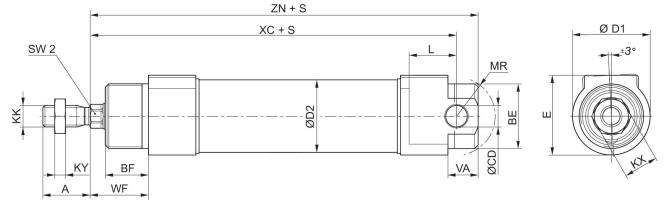
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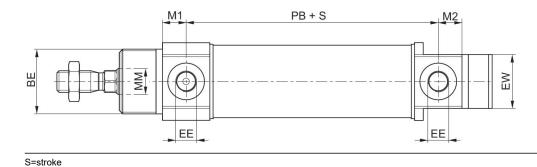
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Dimensions

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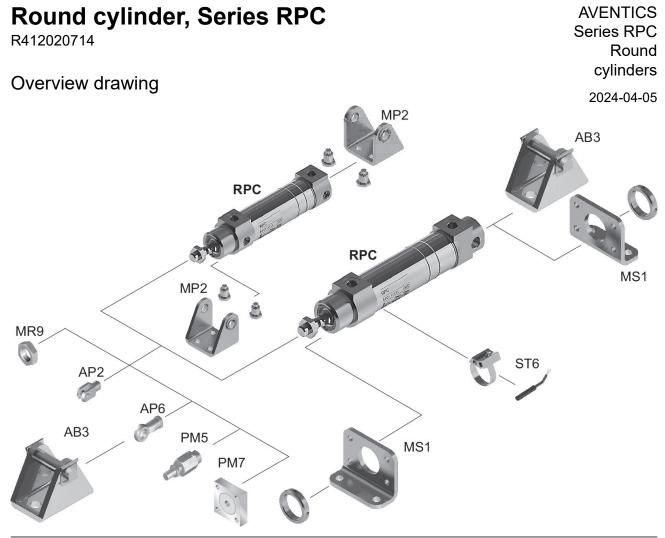




32 22 M30x1,5 20 10 36 33.5 37 G 1/8 25 40 24 M38x1.5 23 12 45 41.5 45 G 1/4 30 32 M45x1,5 24 12 55 52.5 55 G 1/4 35 50 63 32 M45x1,5 26.5 16 69 65.4 69 G 3/8 35 32 M10x1,25* 16 5 22 12 11 11 18 67 M12x1,25* 6 11.5 11.5 22.5 78 40 19 23 16 M16x1,5 8 26 20 11.5 11.5 25.5 77.5 50 24 M16x1,5 8 29 63 24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

