## **Round cylinder, Series RPC**

R412020674

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.





Technical data				
Industry	Industrial			
Туре	Version: short type			
Piston Ø	63 mm			
Stroke	50 mm			
Ports	G 3/8			
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	1765 N			
Extracting piston force	1960 N			
Min. ambient temperature	-20 °C			
Max. ambient temperature	3° 08			
Min. working pressure	1 bar			



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10 hor
10 bar 2024-04-05
-1.5 J 2024-04-05
1.63 kg
0.044 kg
1200 mm
Compressed air
-20 °C
0° 08
50 μm
0 mg/m³
5 mg/m³
Clamping piece for magnetic field sensor necessary

Material	
Piston rod Stainless S	Steel
Scraper material Polyuretha	ne
Seal material Polyuretha	ne
Material, front cover Aluminum	
Cylinder tube Stainless S	Steel
End cover Aluminum	
Nut for piston rod Steel, chro	me-plated
Guide bushing Steel, chro	me-plated
Part No. R41202067	74

#### **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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### Dimensions







S=stroke

Piston Ø	А	BE	BF	Ø D1	Ø D2	E	EE	ØН	КК
32	22	M30x1,5	20	36	33.5	37	G 1/8	10	M10x1,25*
40	24	M38x1.5	23	45	41.5	45	G 1/4	12	M12x1,25*
50	32	M45x1,5	24	55	52.5	55	G 1/4	14	M16x1,5
63	32	M45x1,5	26.5	69	65.4	69	G 3/8	16	M16x1,5
Piston Ø	KX	KY	М	Ø MM f8	M1	M1*	M2	M2*	MR
32	16	5	M6x0,5	12	11	10.5	13.5	10.5	22.5
40	19	6	M6x0,5	16	11.5	12	14	12.5	25.5
50	24	8	M8x0,75	20	11.5	10	14	12.5	31
63	24	8	M8x0,75	20	13.5	16	16	11.5	37.5
Piston Ø	0	PB	SW2	WF	Y1	Y2	ZN		
32	4.5	58.5	10	27	37.5	99.5	110		
40	4.5	76	13	32	43	120	132.5		
50	7.5	75.5	17	33.5	43.5	122	134.5		
63	7.5	79	17	36.5	52.5	134	145.5		





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.

