# Round cylinder, Series RPC

R412020705

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: compact type			
Piston Ø	40 mm			
Stroke	500 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	M12x1,25			
Piston rod	single			
Scraper	Standard Industry Scraper			
Pressure for determining piston forces	6,3 bar			
Retracting piston force	660 N			
Extracting piston force	790 N			
Min. ambient temperature	-20 °C			
Max. ambient temperature	80 °C			
Min. working pressure	1 bar			



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Max working processo		synnuers
Max. working pressure	10 bar	024-04-05
Impact energy		024-04-03
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.	R412020705

### **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).



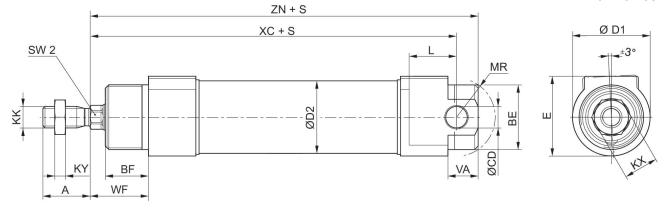
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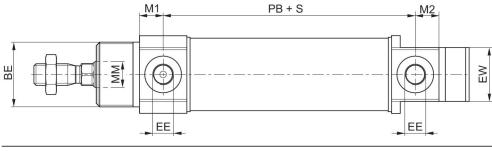
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### Dimensions

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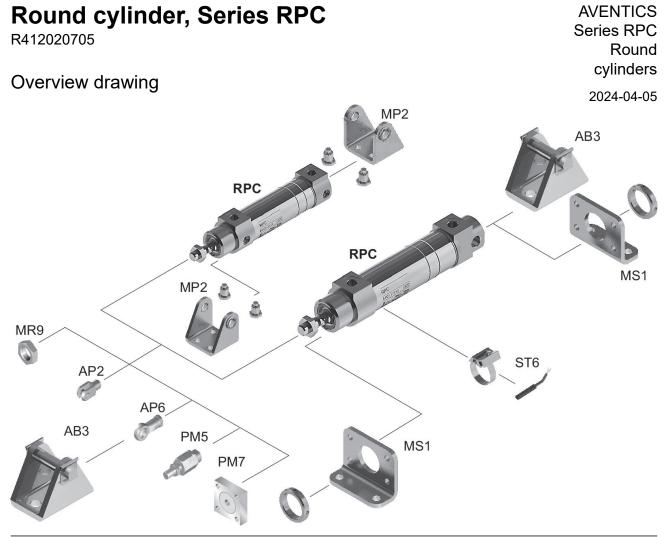


S=stroke

Piston Ø	А	BE	BF	Ø CD H8	Ø D1	Ø D2	E	EE	EW
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
50	32	M45x1,5	24	12	55	52.5	55	G 1/4	35
63	32	M45x1,5	26.5	16	69	65.4	69	G 3/8	35
		,							
Piston Ø	KK	KX	KY	L min.	Ø MM f8	M1	M2	MR	PB
32	M10x1,25*	16	5	22	12	11	11	18	67
40	M12x1,25*	19	6	23	16	11.5	11.5	22.5	78
50	M16x1,5	24	8	26	20	11.5	11.5	25.5	77.5
50 63	M16x1,5 M16x1,5	24 24	8	26 29	20 20	11.5 13.5	11.5	25.5 36.5	77.5 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.

