## Round cylinder, Series RPC

R412020644

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	32 mm
Stroke	125 mm
Ports	G 1/8
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	M10x1,25
Piston rod	single
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Retracting piston force	435 N
Extracting piston force	505 N
Min. ambient temperature	-20 °C
Max. ambient temperature	80 °C
Min. working pressure	1 bar



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Max working process	10 hor	ers
Max. working pressure	10 bar 2024-04-	05
Impact energy	0.8 J 2024-04-	00
Weight 0 mm stroke	0.3 kg	
Weight +10 mm stroke	0.015 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	Clamping piece for magnetic field sensor	
necessary	necessary	

Material	
Piston rod Stainless	Steel
Scraper material Polyureth	ane
Seal material Polyureth	ane
Material, front cover Aluminum	ı
Cylinder tube Stainless	Steel
End cover Aluminum	n
Nut for piston rod Steel, chr	ome-plated
Guide bushing Steel, chr	ome-plated
Part No. R4120206	644

### **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).

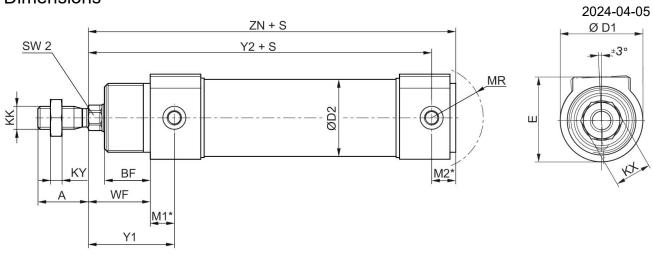


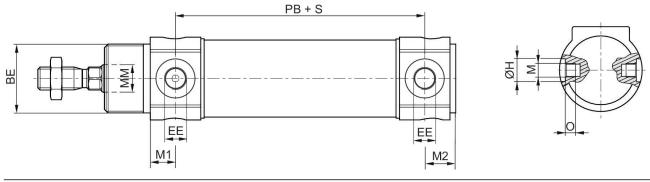
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### Dimensions



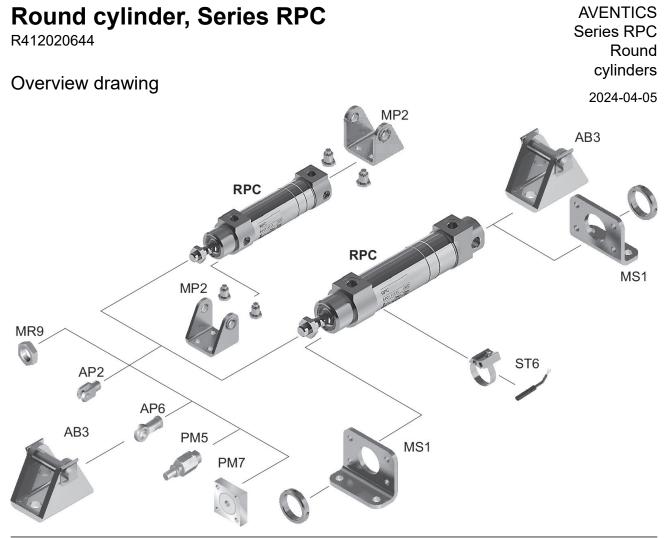




S=stroke

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.

