Round cylinder, Series RPC

R412020646

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	200 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 processing	10 hor	s
Max. working pressure	10 bar 2024-04-0	5
Impact energy	0.8 J 2024-04-0	<u> </u>
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	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.	R412020646

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).

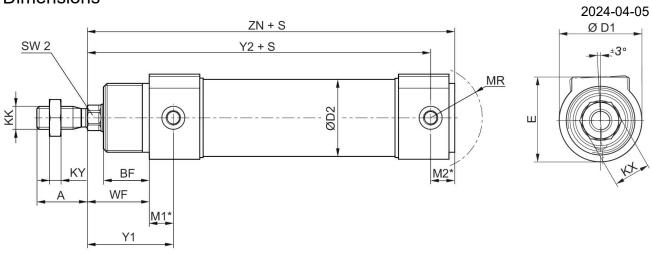


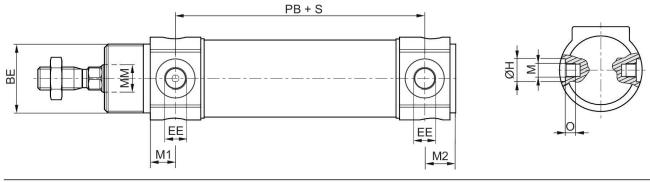
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Dimensions



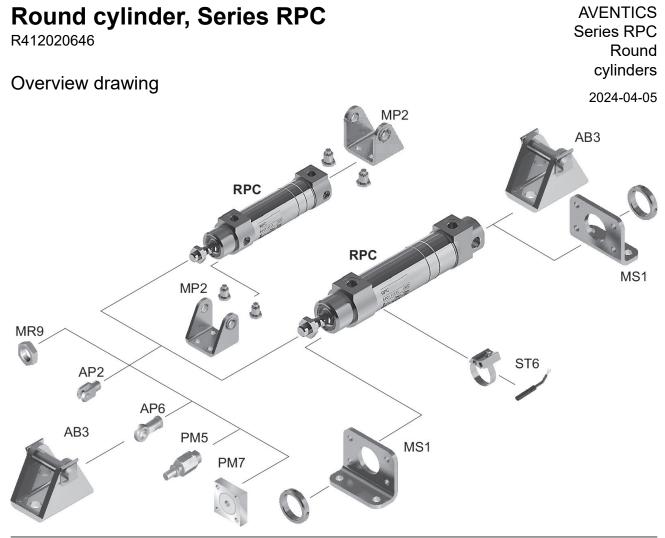




S=stroke

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.

