Round cylinder, Series RPC

R412020721

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 Type Version: compact type Piston Ø 63 mm 125 mm Stroke Ports G 3/8 **Functional principle** Double-acting Elastic cushioning Cushioning Magnetic piston Piston with magnet **Environmental requirements** Industry standard ATEX optional External thread Piston rod thread - type Piston rod thread M16x1,5 Piston rod single Scraper Pressure for determining piston forces 6,3 bar Retracting piston force 1765 N 1960 N Extracting piston force -20 °C Min. ambient temperature Max. ambient temperature 80 °C Min. working pressure 1 bar

Standard Industry Scraper



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Max working process	10 hor
Max. working pressure	10 bar 2024-04-05
Impact energy	1.5 J 2024-04-03
Weight 0 mm stroke	1.62 kg
Weight +10 mm stroke	0.044 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 Polyureth	nane
Seal material Polyureth	nane
Material, front cover Aluminun	n
Cylinder tube Stainless	Steel
End cover Aluminun	n
Nut for piston rod Steel, chr	rome-plated
Guide bushing Steel, chr	rome-plated
Part No. R412020	721

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).



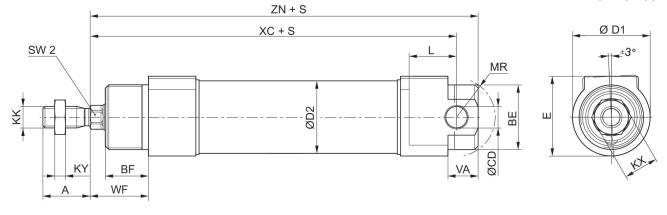
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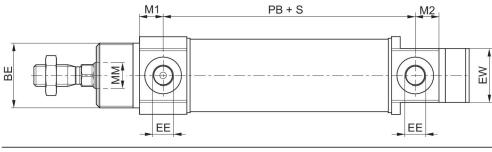
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Dimensions

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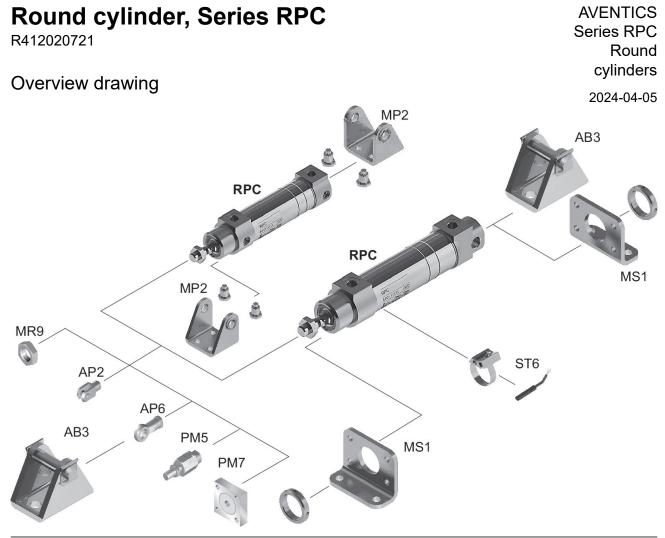


S=stroke

Piston Ø	A	BE	BF	Ø CD H8	Ø D1	Ø D2		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
63	M16x1,5	24	8	29	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.

