R412020657

AVENTICS Series RPC Round cylinders

2024-04-05

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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: short type

Piston \emptyset 40 mm Stroke 200 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

R412020657

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Max. working pressure 10 bar 10.04 J 2024-04-05

Weight 0 mm stroke 0.56 kg
Weight +10 mm stroke 0.024 kg
Stroke max. 1200 mm

Medium Compressed air

Min. medium temperature-20 °CMax. medium temperature80 °CMax. particle size50 μmMin. oil content of compressed air0 mg/m³Max. oil content of compressed air5 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. R412020657

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.

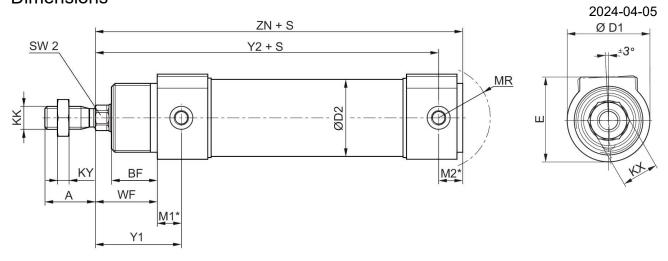
The oil content of compressed air must remain constant during the life cycle.

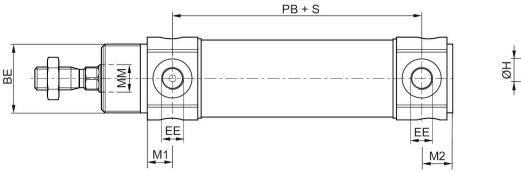
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

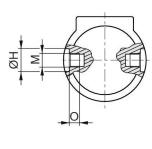
R412020657

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Dimensions







S=stroke

Piston Ø	А	BE	BF	Ø D1	Ø D2	Е	EE	ØН	KK
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

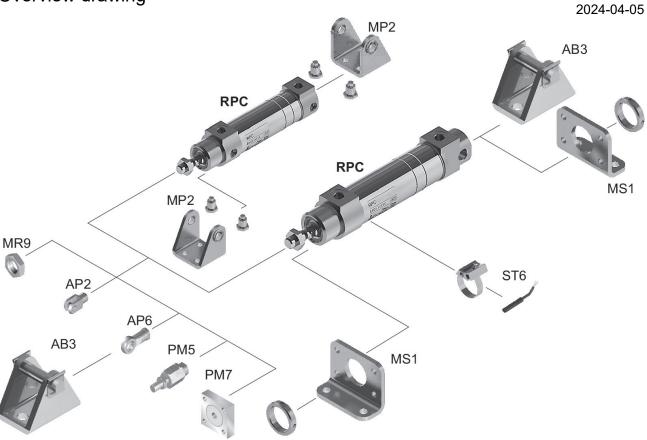
Piston Ø	KX	KY	M	Ø MM f8	M1	M1*	M2	M2*	MR
32	16	5	M6x0,5	12	11	10.5	13.5	10.5	22.5
40	19	6	M6x0,5	16	11.5	12	14	12.5	25.5
50	24	8	M8x0,75	20	11.5	10	14	12.5	31
63	24	8	M8x0,75	20	13.5	16	16	11.5	37.5

Piston Ø	0	РВ	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

R412020657

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Overview drawing



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.