# Round cylinder, Series RPC

R412020780 2024-04-23

#### **Series RPC**

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





#### Technical data

Industry Industrial

Version: Standard type, heat-resistant Type

Piston Ø 32 mm 320 mm Stroke **Ports** G 1/8

Functional principle Double-acting

Cushioning Pneumatic adjustable cushioning

Magnetic piston Piston with magnet Environmental requirements Industry standard Heat resistant

Piston rod thread - type External thread M10x1,25 Piston rod thread Piston rod single

Heat-Resistant Scraper Scraper

Pressure for determining piston forces 6,3 bar Retracting piston force 435 N 505 N Extracting piston force -10 °C Min. ambient temperature 150 °C Max. ambient temperature Min. working pressure 1 bar Max. working pressure 10 bar Cushioning length 16.5 mm 4.8 J Cushioning energy Weight 0 mm stroke 0.37 kg

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Weight +10 mm stroke 0.015 kg Stroke max. 1200 mm

Medium Compressed air

Min. medium temperature-10 °CMax. medium temperature150 °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 Fluorocaoutchouc
Seal material Fluorocaoutchouc

Material, front cover

Cylinder tube

End cover

Aluminum

Stainless Steel

Aluminum

Nut for piston rod Steel, chrome-plated Guide bushing Steel, chrome-plated

Part No. R412020780

#### Technical information

Ambient temperature with contact query max. [[120] °C]

Use our Internet configurator to order these variants with coarse-pitch thread M10x1.5 or M12x1.75.

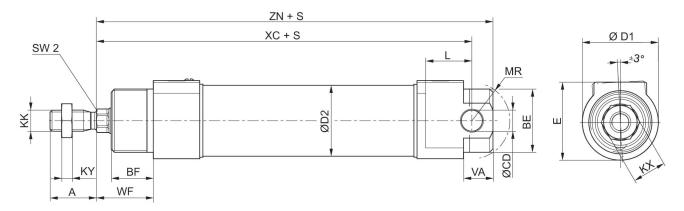
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

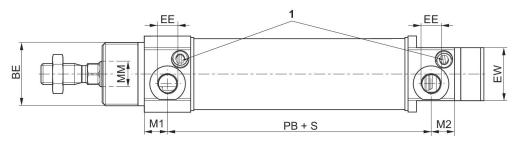
The oil content of compressed air must remain constant during the life cycle.

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**





Piston Ø	А	BE	BF	Ø CD H8	Ø D1	Ø D2	Е	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

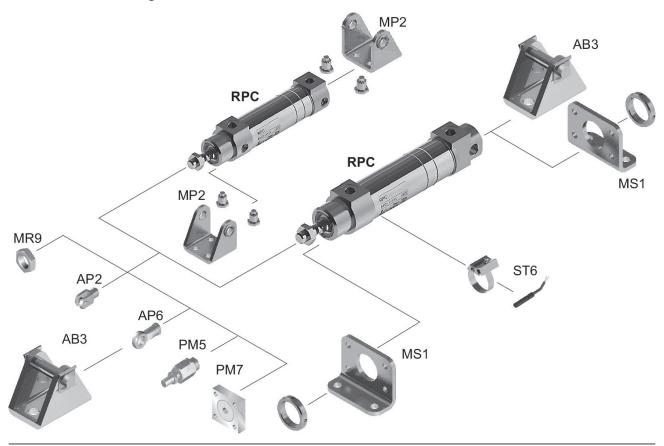
Piston Ø	KK	KX	KY	L min.	Ø MM f8	M1	M2	MR	PB
32	M10x1,25*	16	5	22	12	11	11	18	75
40	M12x1,25*	19	6	23	16	11.5	11.5	22.5	87
50	M16x1,5	24	8	26	20	11.5	11.5	25.5	87.5
63	M16x1,5	24	8	29	20	13	13.5	36.5	92

Piston Ø	Ø SW2	VA	WF	XC	ZN
32	10	14	27	128	138
40	13	15	32	146	157
50	17	18	33.5	151	162
63	17	20	36.5	161	175

S=stroke
1) Slot in throttle screw 1 mm

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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.