Round cylinder, Series RPC R412020704

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 \emptyset 40 mm Stroke 400 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



Round cylinder, Series RPC

R412020704

AVENTICS Series RPC Round cylinders

Max. working pressure	10 bar	5,
Wax. Working procedure	10 541	2024-04-05
Impact energy	1.04 J	20210100

Weight 0 mm stroke 0.58 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. R412020704

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).

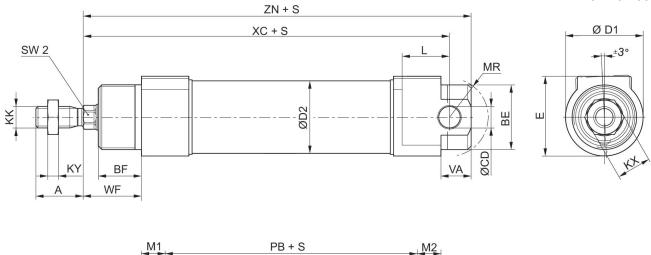
Round cylinder, Series RPC

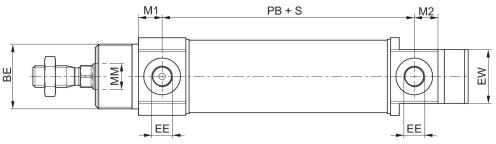
R412020704

AVENTICS Series RPC Round cylinders

Dimensions

2024-04-05





S=stroke

Piston Ø	А	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	РВ
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

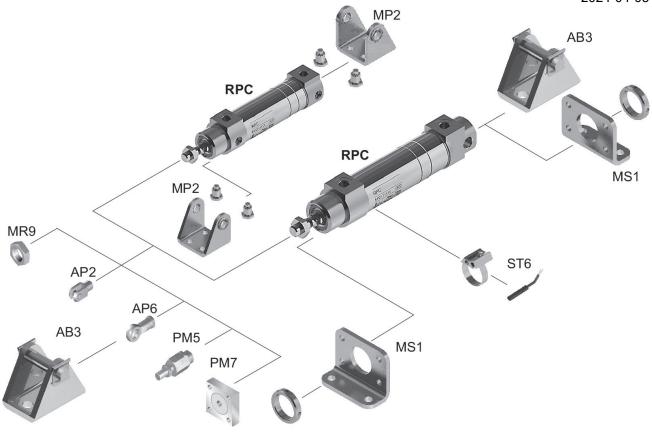
Round cylinder, Series RPC

R412020704

AVENTICS Series RPC Round cylinders

Overview drawing

2024-04-05



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.