Round cylinder, Series RPC

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

R412020769

needs.

2024-04-05



Technical data

- Industry Type Piston Ø Stroke Ports Functional principle Cushioning Magnetic piston Environmental requirements
- Piston rod thread type Piston rod thread Piston rod Scraper Pressure for determining piston forces Retracting piston force Extracting piston force Min. ambient temperature Max. ambient temperature Min. working pressure Max. working pressure Cushioning length Cushioning energy Weight 0 mm stroke
- Industrial Version: standard type 63 mm 320 mm G 3/8 Double-acting Pneumatic adjustable cushioning Piston with magnet Industry standard ATEX optional External thread M16x1,5 single Standard Industry Scraper 6,3 bar 1765 N 1960 N -20 °C 80 °C 1 bar 10 bar 16.5 mm 27 J 1.3 kg



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Matarial

AVENTICS Series RPC Round cylinders

	cylinde	ərs
Weight +10 mm stroke	0.025 kg	05
Stroke max.	1200 mm 2024-04	-05
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	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.	R412020769

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).



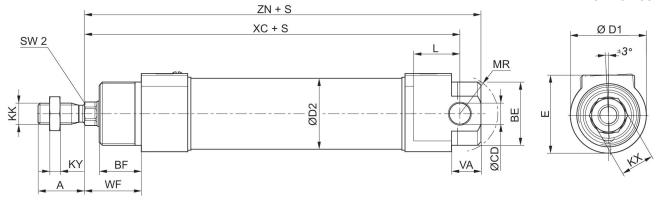
Round cylinder, Series RPC

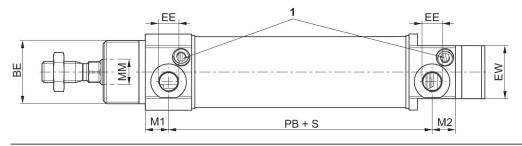
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Dimensions

AVENTICS Series RPC Round cylinders

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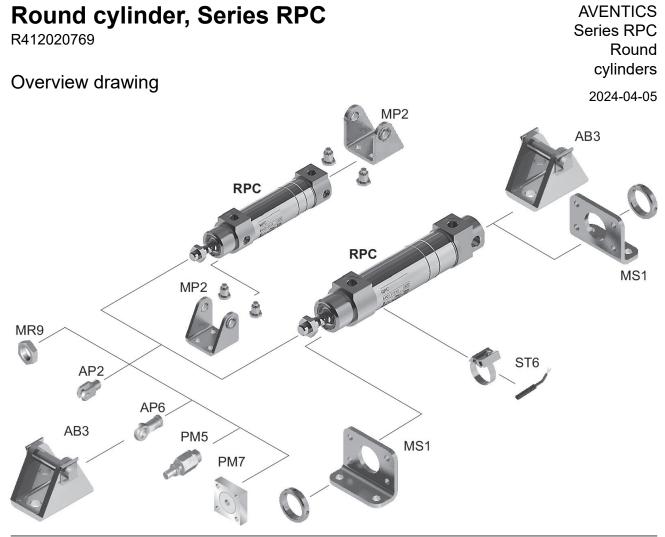


S=stroke 1) Slot in throttle screw 1 mm

А	BE	BF	Ø CD H8	Ø D1	Ø D2		EE	EW
22	M30x1,5	20	10	36	33.5	37	G 1/8	25
24	M38x1.5	23	12	45	41.5	45	G 1/4	30
32	M45x1,5	24	12	55	52.5	55	G 1/4	35
32	M45x1,5	26.5	16	69	65.4	69	G 3/8	35
,								
KK	KX	KY	L min.	Ø MM f8	M1	M2	MR	PB
M10x1,25*	16	5	22	12	11	11	18	75
M12x1,25*	19	6	23	16	11.5	11.5	22.5	87
M16x1,5	24	8	26	20	11.5	11.5	25.5	87.5
M16x1,5	24	8	29	20	13	13.5	36.5	92
	22 24 32 32 32 KK M10x1,25* M10x1,25* M12x1,25*	22 M30x1,5 24 M38x1.5 32 M45x1,5 32 M45x1,5 32 KK KK KX M10x1,25* 16 M12x1,25* 19 M16x1,5 24	22 M30x1,5 20 24 M38x1.5 23 32 M45x1,5 24 32 M45x1,5 26.5 KK KX KY M10x1,25* 16 5 M12x1,25* 19 6 M16x1,5 24 8	KK KX KY L min. M10x1,25* 10 10 10 24 M38x1,5 23 12 32 M45x1,5 24 12 32 M45x1,5 26.5 16 KK KX KY L min. M10x1,25* 16 5 22 M16x1,25 19 6 23 M16x1,5 24 8 26	KK KX KY L min. Ø MM f8 M10x1,25* 10 36 36 M24 M38x1.5 23 12 45 32 M45x1,5 24 12 55 32 M45x1,5 26.5 16 69 KK KX KY L min. Ø MM f8 M10x1,25* 16 5 22 12 M16x1,55 24 8 26 20	22 M30x1,5 20 10 36 33.5 24 M38x1.5 23 12 45 41.5 32 M45x1,5 24 12 55 52.5 32 M45x1,5 26.5 16 69 65.4 M10x1,25* 16 5 22 12 11 M12x1,25* 16 5 22 12 11 M16x1,5 24 23 16 M1 11.5	22 M30x1,5 20 10 36 33.5 37 24 M38x1.5 23 12 45 41.5 45 32 M45x1,5 24 12 55 52.5 55 32 M45x1,5 26.5 16 69 69 69 KK KX KY L min. Ø MM f8 M1 M2 M10x1,25* 16 5 22 12 11 11 M12x1,25* 19 6 23 16 11.5 11.5 M16x1,5 24 8 26 20 11.5 11.5	22 M30x1,5 20 10 36 33.5 37 G 1/8 24 M38x1.5 23 12 45 41.5 45 G 1/4 32 M45x1,5 24 12 55 52.5 55 G 1/4 32 M45x1,5 26.5 16 69 65.4 69 G 3/8 M10x1,25* M6 KX KY L min. Ø MM 18 M1 M2 MR M10x1,25* 16 5 22 12 11 11 18 M10x1,25* 16 5 22 12 11.5 11.5 22.5 M16x1,5 24 8 26 20 11.5 11.5 25.5

Piston 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





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.

