

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
Standards	ISO 6431
Type	Version: ISO-type
Piston Ø	32 mm
Stroke	50 mm
Ports	G 1/8
Functional principle	Single-acting, retracted without pressure
Cushioning	elastic cushioning
Magnetic piston	Piston with magnet
Environmental requirements	Industry standard
Piston rod thread - type	External thread
Piston rod thread	M10x1,25
Piston rod	single
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Retracting piston force	437 N
Extracting piston force	470 N
Min. ambient temperature	-20 °C
Max. ambient temperature	80 °C

Min. working pressure	2 bar
Max. working pressure	10 bar
Min. spring force	35 N
Max. spring force	68 N
Impact energy	0.5 J
Weight 0 mm stroke	0.37 kg
Weight +10 mm stroke	0.015 kg
Stroke max.	50 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/m ³
Max. oil content of compressed air	5 mg/m ³
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
Part No.	R481609466

Technical information

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>).

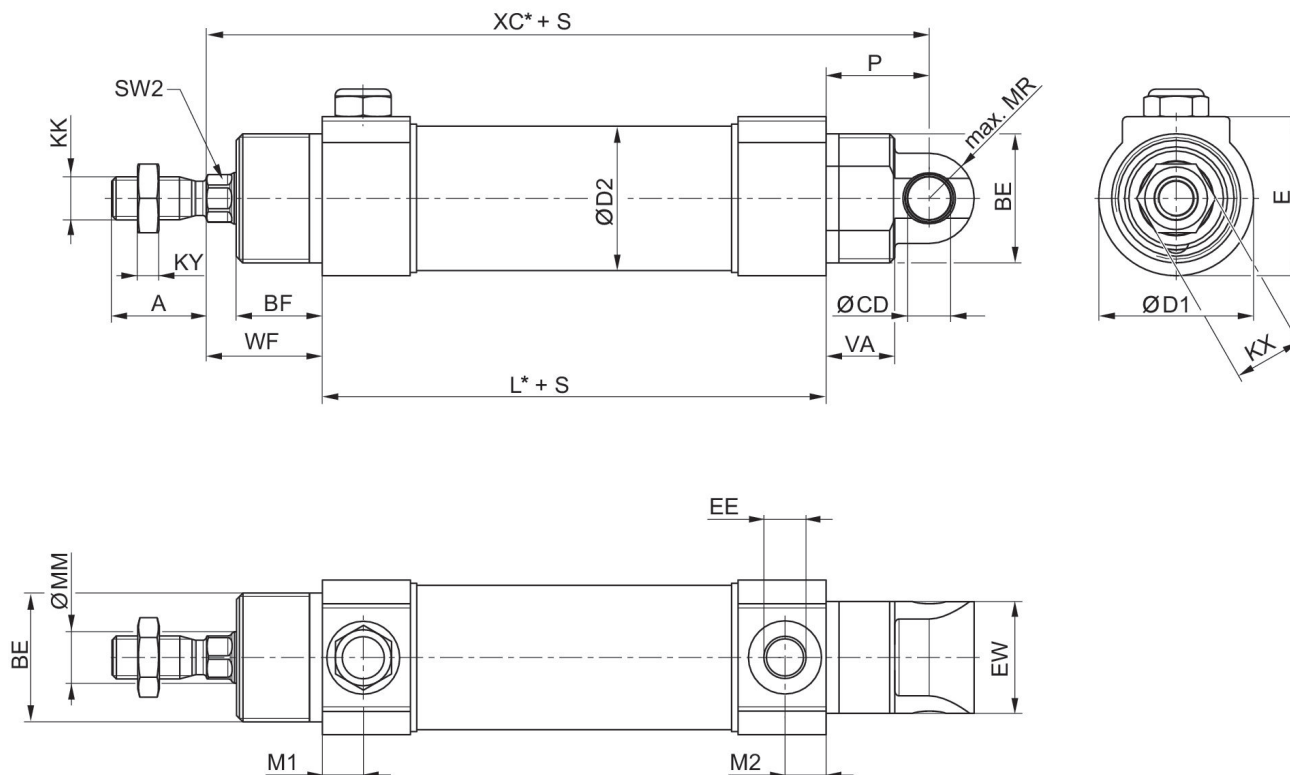
Round cylinder, Series RPC

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Dimensions



S = stroke

Piston $\varnothing$	A	BE	BF	$\varnothing CD H9$	$\varnothing D1$	$\varnothing D2$	E	EE	EW	KK
32	22	M30x1,5	20	10	36	33,6	37	G 1/8	26	M10x1,25
40	24	M38x1,5	23	12	45	41,6	45	G 1/4	28	M12x1,25
50	32	M45x1,5	24	12	55	52,4	55	G 1/4	32	M16x1,5
63	32	M45x1,5	26.5	16	69	65,4	69	G 3/8	40	M16x1,5

Piston $\varnothing$	KX	KY	L *	$\varnothing MM$	M1	M2	MR	P	SW2	VA
32	16	5	92	12	9,5	9,5	10,5	24	10	16
40	18	6	107	16	11,5	11,5	13	21	13	19
50	24	8	110	20	11,5	11,5	13	25	17	18,5
63	24	8	125	20	13,5	13,5	17	31	17	23

Piston $\varnothing$	WF	XC *
32	27	143
40	32	160
50	35	170
63	35	191

* for stroke 26-50 mm, length dimensions XC and L are 25 mm longer

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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.