## 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
Type
Piston $\varnothing$
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

Industrial
Version: short type
32 mm
200 mm
G 1/8
Double-acting
Elastic cushioning
Piston with magnet
Industry standard
ATEX optional
External thread
M10x1,25
single
Standard Industry Scraper
6,3 bar
435 N
505 N
$-20^{\circ} \mathrm{C}$
$80^{\circ} \mathrm{C}$
1 bar

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Max. working pressure 10 bar

Impact energy
0.8 J
0.3 kg

Weight 0 mm stroke
0.015 kg

Weight +10 mm stroke
1200 mm
Compressed air
$-20^{\circ} \mathrm{C}$
$80^{\circ} \mathrm{C}$
$50 \mu \mathrm{~m}$
$0 \mathrm{mg} / \mathrm{m}^{3}$
$5 \mathrm{mg} / \mathrm{m}^{3}$
Clamping piece for magnetic field sensor necessary

## Material

Piston rod
Scraper material
Seal material
Material, front cover
Cylinder tube
End cover
Nut for piston rod
Guide bushing
Part No.

Stainless Steel
Polyurethane
Polyurethane
Aluminum
Stainless Steel
Aluminum
Steel, chrome-plated
Steel, chrome-plated
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## Technical information

Use our Internet configurator to order these variants with coarse-pitch thread M10×1.5 or M12×1.75. ATEX-certified cylinders with identification II 2G Exh IIC T4 Gb / II 2D Ex h IIIC T135 ${ }^{\circ} \mathrm{C}$ Db_X can be generated in the Internet configurator.
The operating temperature range for ATEX-certified cylinders is $-20^{\circ} \mathrm{C} . .60^{\circ} \mathrm{C}$.
The pressure dew point must be at least $15^{\circ} \mathrm{C}$ less than ambient and medium temperature and may not exceed $3^{\circ} \mathrm{C}$.
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 | $\varnothing \mathrm{D} 1$ | $\varnothing \mathrm{D} 2$ | E | EE | $\varnothing H$ | KK |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 32 | 22 | $\mathrm{M} 30 \times 1,5$ | 20 | 36 | 33.5 | 37 | $\mathrm{G} 1 / 8$ | 10 | $\mathrm{M} 10 \times 1,25^{*}$ |
| 40 | 24 | $\mathrm{M} 38 \times 1.5$ | 23 | 45 | 41.5 | 45 | $\mathrm{G} 1 / 4$ | 12 | $\mathrm{M} 12 \times 1,25^{*}$ |
| 50 | 32 | $\mathrm{M} 45 \times 1,5$ | 24 | 55 | 52.5 | 55 | $\mathrm{G} 1 / 4$ | 14 | $\mathrm{M} 16 \times 1,5$ |
| 63 | 32 | $\mathrm{M} 45 \times 1,5$ | 26.5 | 69 | 65.4 | 69 | $\mathrm{G} 3 / 8$ | 16 | $\mathrm{M} 16 \times 1,5$ |


| Piston $\varnothing$ | KX | KY | M | $\varnothing$ 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 | $O$ | $P B$ | $S W 2$ | $W F$ | $Y 1$ | $Y 2$ | 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 |

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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.

