**Piston rod cylinders → Round cylinders**

# Round cylinder, Series CPC

**► Ø 32 - 80 mm ► Ports: G 1/8 - G 3/8 ► double-acting ► with magnetic piston ► with integrated rear eye ► Piston rod: external thread**

00120573

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| | |
|---|---|
| Compressed air connection | internal thread |
| Working pressure min./max. | 1 bar / 10 bar |
| Ambient temperature min./max. | -25°C / +80°C |
| Medium temperature min./max. | -25°C / +80°C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 mg/m³ - 5 mg/m³ |
| Pressure for determining piston forces | 6,3 bar |

| Materials: | |
|---|---|
| Cylinder tube | Aluminum, anodized |
| Piston rod | Stainless steel |
| Front cover | Aluminum, anodized |
| End cover | Aluminum, anodized |
| Seal | Acrylonitrile Butadiene Rubber; Polyurethane |
| Nut for piston rod | Steel, galvanized |
| Scraper | Polyurethane |

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

| **Piston Ø** | | **[mm]** | **32** | **40** | **50** | **63** | **80** |
|---|---|---|---|---|---|---|---|
| Retracting piston force | | [N] | 435 | 660 | 1035 | 1765 | 2855 |
| Extracting piston force | | [N] | 505 | 790 | 1235 | 1960 | 3165 |
| Weight | 0 mm stroke | [kg] | 0.35 | 0.64 | 0.98 | 1.4 | 2.5 |
| | +10 mm stroke | [kg] | 0.015 | 0.025 | 0.036 | 0.042 | 0.06 |
| Stroke max. | | [mm] | 1500 | 1900 | 2000 | 2000 | 2000 |

| | **Piston Ø**<br>**Piston rod thread**<br>**Ports**<br>**Piston rod Ø** | **32**<br>**M10**<br>**G 1/8**<br>**12** | **40**<br>**M12**<br>**G 1/4**<br>**16** | **50**<br>**M16x1,5**<br>**G 1/4**<br>**20** | **63**<br>**M16x1,5**<br>**G 3/8**<br>**20** | **80**<br>**M20x1,5**<br>**G 3/8**<br>**25** |
|---|---|---|---|---|---|---|
| | Stroke 25 | **5217001000** | 5217011000 | **5217021000** | 5217031000 | 5217041000 |
| | 50 | **5217001010** | **5217011010** | 5217021010 | 5217031010 | 5217041010 |
| | 80 | **5217001090** | 5217011070 | 5217021060 | 5217031060 | 5217041070 |
| | 100 | **5217001020** | **5217011020** | **5217021020** | 5217031020 | 5217041020 |
| | 125 | 5217001070 | 5217011190 | 5217021070 | 5217031150 | 5217041080 |
| | 160 | 5217001180 | 5217011140 | 5217021140 | 5217031160 | 5217041090 |
| | 200 | 5217001040 | 5217011040 | 5217021040 | 5217031040 | 5217041040 |
| | 250 | 5217001190 | 5217011110 | 5217021150 | 5217031170 | 5217041100 |
| | 320 | 5217001200 | 5217011200 | 5217021160 | 5217031180 | 5217041110 |
| | 400 | 5217001130 | 5217011290 | 5217021110 | 5217031190 | 5217041120 |
| | 500 | 5217001310 | 5217011300 | 5217021310 | 5217031300 | 5217041300 |

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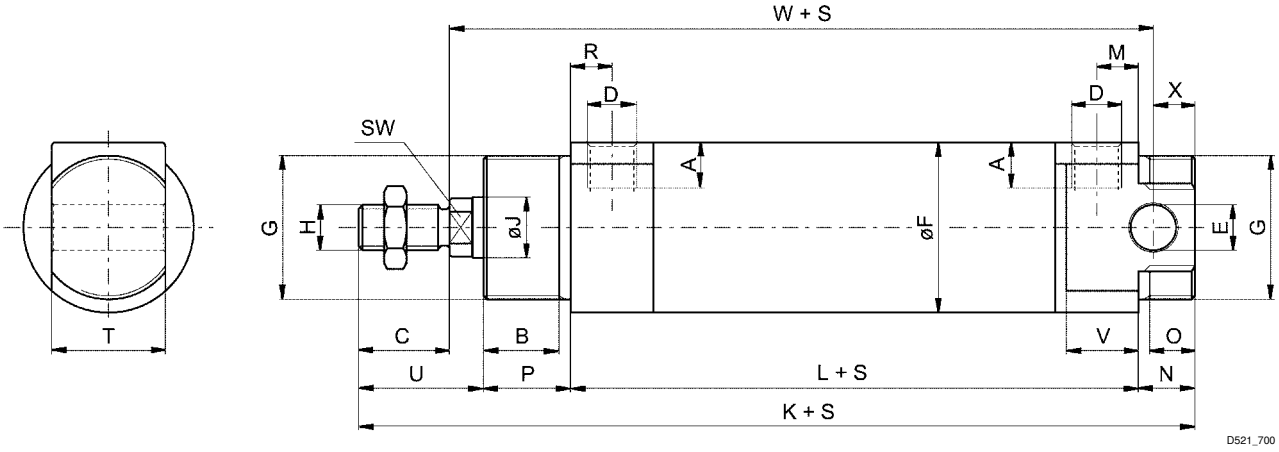
**► Ø 32 - 80 mm ► Ports: G 1/8 - G 3/8 ► double-acting ► with magnetic piston ► with integrated rear eye ► Piston rod: external thread**

| Configurable product | |
|---|---|
| | This product is configurable. Please use the Internet configurator or contact the nearest Bosch Rexroth sales office. |

**Piston Ø 32 - 80**




S=stroke

| Piston Ø | A | B | C | D | Ø E H8 | Ø F | G | H | Ø J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 8 | 17 | 20 | G 1/8 | 10 | 36 | M30x1,5 | M10 | 12 | 160 | 97 | 10.5 | 14 |
| 40 | 12 | 20 | 24 | G 1/4 | 12 | 45 | M38x1.5 | M12 | 16 | 181 | 110 | 11 | 15 |
| 50 | 12 | 21 | 32 | G 1/4 | 12 | 55 | M45x1,5 | M16x1,5 | 20 | 194 | 110 | 11 | 18 |
| 63 | 12 | 23.5 | 32 | G 3/8 | 16 | 69 | M45x1,5 | M16x1,5 | 20 | 207 | 120.5 | 13 | 20 |
| 80 | 12 | 23 | 40 | G 3/8 | 16 | 86 | M55x1,5 | M20x1,5 | 25 | 231 | 128 | 15 | 23 |

| Piston Ø | O | P | R | T 0-0,2 | U | V | W | X | SW | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 11 | 20 | 10.5 | 25 | 29 | 18 | 130 | 10 | 10 | | | | |
| 40 | 12 | 23 | 11 | 30 | 33 | 19 | 146 | 11 | 13 | | | | |
| 50 | 15 | 24 | 11 | 35 | 42 | 19 | 151 | 11 | 17 | | | | |
| 63 | 17 | 26.5 | 13 | 35 | 40 | 23 | 161 | 14 | 17 | | | | |
| 80 | 20 | 26 | 15 | 48 | 54 | 26 | 177 | 14 | 22 | | | | |