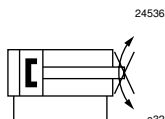


**Compact cylinder, Series KPZ**

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: non-rotating, with front plate, Optionally through ▶ optionally heat-resistant



|                                        |                   |
|----------------------------------------|-------------------|
| Standards                              | NFE 49004         |
| Compressed air connection              | Internal thread   |
| Ambient temperature min./max.          | -20 °C / +80 °C   |
| Medium temperature min./max.           | -20 °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           |
| End cover     | Aluminum           |
| Front plate   | Aluminum           |

**Technical Remarks**

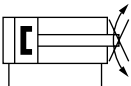
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- The material for heat-resistant scraper and seal variants (ambient temperature: -10 °C/120 °C) is fluorocautchouc.
- Further options can be generated in the Internet configurator.

| Piston Ø                   | [mm]  | 16                       | 20                       | 25                       | 32           | 40           |
|----------------------------|-------|--------------------------|--------------------------|--------------------------|--------------|--------------|
| Retracting piston force    | [N]   | 95                       | 148                      | 260                      | 435          | 720          |
| Extracting piston force    | [N]   | 127                      | 198                      | 309                      | 507          | 792          |
| Impact energy              | [J]   | 0.15                     | 0.2                      | 0.3                      | 0.5          | 0.7          |
| Stroke max.                | [mm]  | 300                      | 300                      | 300                      | 300          | 300          |
| Working pressure min./max. | [bar] | 1 - 10                   | 1 - 10                   | 1 - 10                   | 0.6 - 10     | 0.6 - 10     |
| Scraper material           |       | Polyurethane             | Polyurethane             | Polyurethane             | Polyurethane | Polyurethane |
| Sealing material           |       | Nitrile butadiene rubber | Nitrile butadiene rubber | Nitrile butadiene rubber | Polyurethane | Polyurethane |

| Piston Ø                   | [mm]  | 50           | 63           | 80           | 100          |  |
|----------------------------|-------|--------------|--------------|--------------|--------------|--|
| Retracting piston force    | [N]   | 1110         | 1837         | 2969         | 4639         |  |
| Extracting piston force    | [N]   | 1237         | 1964         | 3167         | 4948         |  |
| Impact energy              | [J]   | 1            | 1.3          | 1.8          | 2.5          |  |
| Stroke max.                | [mm]  | 300          | 300          | 300          | 300          |  |
| Working pressure min./max. | [bar] | 0.6 - 10     | 0.6 - 10     | 0.6 - 10     | 0.6 - 10     |  |
| Scraper material           |       | Polyurethane | Polyurethane | Polyurethane | Polyurethane |  |
| Sealing material           |       | Polyurethane | Polyurethane | Polyurethane | Polyurethane |  |

**Piston rod cylinders ▶ Short-stroke and compact cylinders**
**Compact cylinder, Series KPZ**

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: non-rotating, with front plate, Optionally through ▶ optionally heat-resistant

|                                                                                   | Piston Ø<br>Ports | 16<br>M5          | 20<br>M5          | 25<br>M5          | 32<br>G 1/8       | 40<br>G 1/8       |
|-----------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|  | Stroke 5          | 0822390600        | <b>0822391600</b> | <b>0822392600</b> | 0822393600        | 0822394600        |
|                                                                                   | 10                | <b>0822390601</b> | <b>0822391601</b> | <b>0822392601</b> | <b>0822393601</b> | 0822394601        |
|                                                                                   | 15                | <b>0822390602</b> | <b>0822391602</b> | <b>0822392602</b> | <b>0822393602</b> | 0822394602        |
|                                                                                   | 20                | <b>0822390603</b> | <b>0822391603</b> | <b>0822392603</b> | <b>0822393603</b> | <b>0822394603</b> |
|                                                                                   | 25                | <b>0822390604</b> | <b>0822391604</b> | <b>0822392604</b> | <b>0822393604</b> | <b>0822394604</b> |
|                                                                                   | 30                | 0822390605        | <b>0822391605</b> | <b>0822392605</b> | <b>0822393605</b> | <b>0822394605</b> |
|                                                                                   | 40                | <b>0822390606</b> | <b>0822391606</b> | <b>0822392606</b> | <b>0822393606</b> | <b>0822394606</b> |
|                                                                                   | 50                | <b>0822390607</b> | <b>0822391607</b> | <b>0822392607</b> | <b>0822393607</b> | <b>0822394607</b> |
|                                                                                   | 60                | <b>0822390608</b> | <b>0822391608</b> | <b>0822392608</b> | <b>0822393608</b> | <b>0822394608</b> |
|                                                                                   | 80                | -                 | -                 | -                 | <b>0822393609</b> | <b>0822394609</b> |
|                                                                                   | 100               | -                 | -                 | -                 | <b>0822393610</b> | <b>0822394610</b> |
|                                                                                   | Piston Ø<br>Ports | 50<br>G 1/8       | 63<br>G 1/8       | 80<br>G 1/8       | 100<br>G 1/8      |                   |
|                                                                                   | Stroke 5          | <b>0822395600</b> | 0822396600        | 0822397600        | 0822398600        |                   |
|                                                                                   | 10                | <b>0822395601</b> | <b>0822396601</b> | 0822397601        | 0822398601        |                   |
|                                                                                   | 15                | <b>0822395602</b> | 0822396602        | 0822397602        | 0822398602        |                   |
|                                                                                   | 20                | <b>0822395603</b> | <b>0822396603</b> | 0822397603        | 0822398603        |                   |
|                                                                                   | 25                | <b>0822395604</b> | <b>0822396604</b> | 0822397604        | 0822398604        |                   |
|                                                                                   | 30                | <b>0822395605</b> | 0822396605        | 0822397605        | 0822398605        |                   |
|                                                                                   | 40                | <b>0822395606</b> | 0822396606        | 0822397606        | 0822398606        |                   |
|                                                                                   | 50                | <b>0822395607</b> | <b>0822396607</b> | 0822397607        | 0822398607        |                   |
|                                                                                   | 60                | <b>0822395608</b> | <b>0822396608</b> | 0822397608        | 0822398608        |                   |
|                                                                                   | 80                | 0822395609        | 0822396609        | 0822397609        | 0822398609        |                   |
|                                                                                   | 100               | <b>0822395610</b> | 0822396610        | 0822397610        | 0822398610        |                   |

**Configurable product**


This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.