



Synthetic hoses for pneumatics

- Various variants
- PUR for greater flexibility
- PA for higher pressure ranges
- PTFE for higher temperatures
- PE for standard applications

Product variants described in the data sheet may differ from the product presentation and description.

Type description

Plastic hoses made of polyurethane (PUR), polyamide (PA soft) and polyethylene are highly resistant to water and oils at room temperature. They are therefore particularly suitable as compressed air lines. They are available in 50 and 100 m rolls. The life span depends on the intensity of the ambient temperature and the operational pressure.

PTFE hoses are suitable for high temperatures and are resistant to aggressive and corrosive media and are food-safe. They are only available in 50 m rolls.

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1. General technical data

1.1. Bench mark for load factor

Note:

Other variants on request

| Temperature °C | Load factor of the permitted operational pressure in relation to the temperature | | |
|-------------------|--|---------|---------|
| | PUR % | PA % | PE % |
| + 20 | 100 | 100 | 100 |
| + 40 | 72 | 68 | 72 |
| + 60 | 55 | 51 | – |
| + 80 | – | 38 | – |
| + 90 | – | 35 | – |
| + 95 | – | 33 | – |

| Temperature °C | Pressure factor with PTFE % |
|-------------------|--------------------------------|
| + 20 | 100 |
| + 50 | 50 |
| + 100 | 35 |
| + 150 | 30 |
| + 200 | 10 |
| + 95 | – |

2. Approvals and conformities

2.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

2.2. Conformity

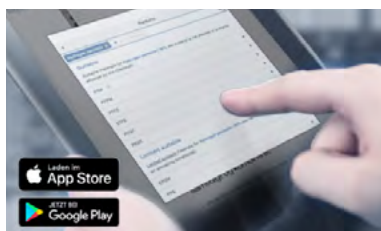
In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

2.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3. Materials

3.1. Bürkert resistApp

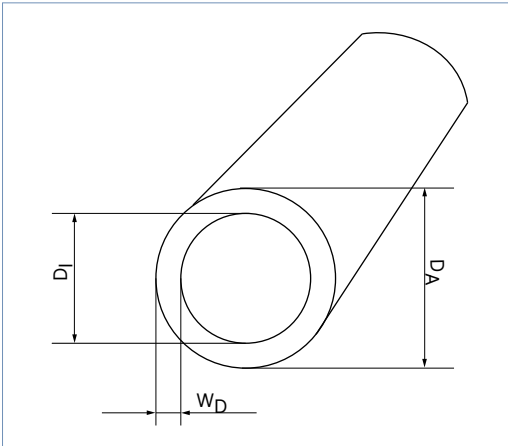


Bürkert resistApp – Chemical resistance chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start chemical resistance check](#)

4. Dimensions



5. Ordering information

5.1. Bürkert eShop

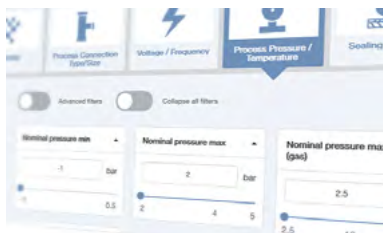


Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

[Order online now](#)

5.2. Bürkert product filter



Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.




















[Try out our product filter](#)

5.3. Ordering chart

PUR synthetic hose (shore 98 ± 2), temperature range - 40 °C...+ 70 °C

Note:































Tolerance: + 0.05 to - 0.1 mm ± 0.08 mm, permissible bend radius $\geq R_{\min}$

| Dimensions DA, DI, WD | Maximum operating pressure at + 23 °C | Minimum bend radius R_{\min} | Weight | Roll length 50 m | | Roll length 100 m | |
|--------------------------|--|--------------------------------------|--------|--|--|--|--|
| | | | | [bar] | [mm] | [g/m] | Article no. blue |
| 4 / 2.5 / 0.75 | 13 | 20 | 11 | 780630  | 780631  | 771860  | 771863  |
| 6 / 4 / 1 | 11 | 25 | 19 | 780632  | 780633  | 771287  | 771286  |
| 8 / 6 / 1 | 8 | 35 | 27 | 780634  | 780635  | 771288  | 771864  |
| 10 / 7.5 / 1.25 | 8 | 40 | 34 | 780636  | 780637  | 771861  | 771865  |
| 12 / 9 / 1.50 | 7 | 45 | 41.8 | - | 780639  | 771862  | 771866  |

PA 12 flexible, temperature range - 40 °C...+ 90 °C

Note:































Tolerance: + 0.05 to - 0.1 mm, WD ± 0.08 mm, permissible bend radius $\geq R_{\min}$

| Dimensions DA, DI, WD | Maximum operating pressure at + 20 °C | Minimum bend radius R_{\min} | Weight | Roll length 50 m | | | Roll length 100 m | | |
|--------------------------|--|--------------------------------------|--------|--|--|--|--|--|--|
| | | | | [bar] | [mm] | [g/m] | Article no. blue | Article no. natural- coloured | Article no. black |
| 4 / 2.7 / 0.65 | 30 | 20 | 10 | 780640  | 780642  | 780641  | 771867  | 771876  | 771872  |
| 6 / 4 / 1 | 27 | 25 | 16 | 780643  | 780645  | 780644  | 771868  | 771296  | 771295  |
| 8 / 6 / 1 | 15 | 30 | 23 | 780646  | 780648  | 780647  | 771869  | 771297  | 771873  |
| 10 / 8 / 1 | 15 | 60 | 30 | 780649  | 780651  | 780650  | 771870  | 771877  | 771874  |
| 12 / 9 / 1.50 | 19 | 85 | 36 | 780652  | 780654  | 780653  | 771871  | 771878  | 771875  |

LDPE synthetic hose, temperature range - 10 °C...+ 40 °C

Note:






Tolerance: DA ± 0.1 mm, WD ± 0.1 mm, permissible bend radius $\geq R_{\min}$

| Dimensions DA, DI, WD | Maximum operating pressure at + 20 °C | Minimum bend radius R_{\min} | Weight | Roll length 50 m | | | Roll length 100 m | | |
|--------------------------|--|--------------------------------------|--------|--|--|--|--|--|--|
| | | | | [bar] | [mm] | [g/m] | Article no. blue | Article no. natural- coloured | Article no. black |
| 4 / 2 / 1 | 20 | 20 | 9 | 780655  | 780657  | 780656  | 771879  | 771886  | 771881  |
| 6 / 4 / 1 | 13 | 30 | 14 | 780658  | 780660  | 780659  | 771289  | 771290  | 771882  |
| 8 / 6 / 1 | 8 | 40 | 20 | 780661  | 780663  | 780662  | 771291  | 771292  | 771883  |
| 10 / 8 / 1 | 6 | 60 | 26 | 780664  | 780666  | 780665  | 771293  | 771294  | 771884  |
| 12 / 10 / 1 | 5 | 85 | 31 | 780667  | 780669  | 780668  | 771880  | 771887  | 771885  |

PTFE hose, temperature range - 196 °C...+ 250 °C

Note:

Tolerance: ± 0.2 mm

| Dimensions DA, DI, WD | Maximum operating pressure at + 23 °C | Minimum bend radius R _{min} | Weight | Roll length 50 m |
|--------------------------|--|--|--------|--|
| | [bar] | [mm] | [kg/m] | Article no. natural-coloured |
| 4 / 2 / 1 | 25 | 20 | 2.05 | 788879  |
| 6 / 4 / 1 | 18 | 33 | 3.43 | 788880  |
| 8 / 6 / 1 | 14 | 47 | 4.8 | 788881  |
| 10 / 8 / 1 | 12 | 60 | 6.16 | 788882  |
| 12 / 10 / 1 | 10 | 72 | 7.55 | 788883  |