

ABRASION-RESISTANT

NORFLEX® PUR 441 ROBOTIC GREEN

Abrasion-resistant PUR high-pressure hose for robotics — Green, up to 20 bar working pressure



Abrasion-resistant high-pressure hose in polyurethane, fabric-reinforced with polyester reinforcement. Designed specifically for industrial robots, where the hose must follow the robot arm's movements cycle after cycle without abrading or kinking. Working pressure up to 20 bar, burst pressure up to 80 bar. Service from -35 °C to $+80\text{ °C}$. The green colour provides visual separation between multiple parallel hoses on the same robot — e.g. different colours for compressed air, coolant and hydraulics.

Media: Liquid, Gas

Temp: -35 °C to 80 °C

✓ Cut to length

APPLICATIONS

- Compressed air supply to robot grippers
- Coolant transport on robot arm
- Hydraulic connections on industrial robots
- Water supply on automated machines
- Industrial pneumatic installations
- Cooling water in process cooling

Technical specifications

| | |
|--------------------------|--|
| Material | Polyurethane (PUR), polyester reinforcement, green outer layer |
| Colour | Green |
| Wall construction | Smooth interior + exterior, extruded, polyester reinforcement |
| Spiral material | polyester plies |
| Conveying media | Liquid, Gas |
| Temperature range | -35 °C – 80 °C |
| Short-term peak | 80 °C |
| Cut to length | Yes |
| Manufacturer SKU | 4410404 |

Standards and compliance

REACH, RoHS

Dimensions and ordering

The hose is supplied in 4 standard sizes from inner Ø 9.4 mm to 19.5 mm. Each size has its own article number. Standard roll length is typically 10 m, and the hose can be cut to length.

| Inner Ø [mm] | Outer Ø [mm] | Wall th. [mm] | Press. DIN [bar] | Burst [bar] | Bend rad. [mm] | Max len. [m] | Weight [kg/m] | Roll [m] | Article no. |
|-----------------|-----------------|------------------|---------------------|----------------|-------------------|-----------------|------------------|-------------|-------------|
| 9.4 | 16 | 3.3 | 20 | 80 | 55 | 68 | 0.19 | 50 | 44190940404 |
| 12.5 | 19.5 | 3.5 | 20 | 80 | 69 | 105 | 0.211 | 50 | 44191280404 |
| 16 | 24.5 | 4.25 | 20 | 75 | 117 | 50 | 0.32 | 50 | 44191600404 |
| 19.5 | 28.5 | 4.5 | 20 | 50 | 140 | 50.01 | 0.44 | 50 | 44191900404 |

Fields without a value (—) are not specified in the manufacturer's factsheet. Overpressure and underpressure values are recommended operating limits; the product can be subjected to higher loads on request. Bend radius is measured along the inside of the hose bend.

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Contact and advisory

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This datasheet is generated automatically from Particulair product data. All specifications are taken from the manufacturer's factsheet and are subject to change without notice. Prices and availability provided on request.