

ABRASION-RESISTANT

NORFLEX® PUR 441 ROBOTIC RED

Abrasion-resistant PUR high-pressure hose for robotics — Red, 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 red 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, red outer layer
Colour	Red
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	4410403

Standards and compliance

REACH, RoHS

Dimensions and ordering

The hose is supplied in 5 standard sizes from inner Ø 6.4 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.
6.4	12.7	3.15	20	80	22	50	0.13	50	44190640403
9.4	16	3.3	20	80	55	68	0.19	50	44190940403
12.5	19.5	3.5	20	80	69	105	0.196	50	44191280403
16	24.5	4.25	20	75	117	50	0.32	50	44191600403
19.5	28.5	4.5	20	50	140	50.01	0.44	50	44191900403

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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