



Abrasion-proof pressure hose for industrial robots; Fabric reinforced hose, self-locking, resistant to pressure, smooth interior and exterior

Applications: Pressure hose, especially suitable:

- for compressed air
- for industrial robots
- for gaseous and liquid media

Properties

- highly flexible
- highly abrasion-proof (abrasion resistance about 2.5 to 5 times better than most rubber materials and about 3 to 4 times better than most soft PVC 's)
- smooth interior and exterior
- high tensile strength and tear resistant
- fabric reinforced
- good resistance to mineral oils and gasoline

- good resistance to chemicals
- good resistance to UV and ozone
- small bending radius
- halogen free
- gas and liquid tight
- pressure resistant
- crush-proof
- very robust
- conform to RoHS guideline

Temperature Range

- -35 °C approx. to +80 °C approx.

Design, material

NORFLEX® design

1. fabric reinforced wall
2. smooth interior and exterior wall: special premium polyurethane (Pre-PUR®)

Delivery variants

- transparent (standard)
- grey (standard)
- black (standard)
- blue (standard)
- red (standard)
- yellow (standard)
- green (standard)
- special colours: full coloured
- customer-specific product marking

| I.D. | | O.D. | Rec. | Min. | Bending | Weight | Production | Colour | Order No. |
|--------|------|------|---|--------------------------|--------------|--------|--------------|-------------|---------------|
| Inches | mm | mm | Operating limits Overpressure bar | Bursting pressure bar | Radius mm | kg/m | Lengths m | | |
| 1/4" | 6.4 | 12.7 | 20 | 80 | 25 | 0,128 | 50 | transparent | 441-9064-0005 |
| 3/8" | 9.5 | 16 | 20 | 80 | 60 | 0,153 | 50 | transparent | 441-9094-0005 |
| 1/2" | 12.5 | 19.5 | 20 | 80 | 75 | 0,230 | 50 | transparent | 441-9128-0005 |
| 5/8" | 16.5 | 24.5 | 20 | 75 | 125 | 0,308 | 50 | transparent | 441-9160-0005 |
| 3/4" | 19.5 | 28 | 20 | 50 | 150 | 0,411 | 50 | transparent | 441-9190-0005 |
| 1" | 25.4 | 35.4 | 15 | 35 | 270 | 0,568 | 50 | transparent | 441-9254-0005 |
| 1/4" | 6.4 | 12.7 | 20 | 80 | 25 | 0,128 | 50 | blue | 441-9064-0400 |
| 3/8" | 9.5 | 16 | 20 | 80 | 60 | 0,153 | 50 | blue | 441-9094-0400 |
| 1/2" | 12.5 | 19.5 | 20 | 80 | 75 | 0,230 | 50 | blue | 441-9128-0400 |
| 5/8" | 16.5 | 24.5 | 20 | 75 | 125 | 0,308 | 50 | blue | 441-9160-0400 |
| 3/4" | 19.5 | 28 | 20 | 50 | 150 | 0,411 | 50 | blue | 441-9190-0400 |
| 1" | 25.4 | 35.4 | 15 | 35 | 270 | 0,568 | 50 | blue | 441-9254-0400 |
| 1/4" | 6.4 | 12.7 | 20 | 80 | 25 | 0,128 | 50 | grey | 441-9064-0401 |
| 3/8" | 9.5 | 16 | 20 | 80 | 60 | 0,153 | 50 | grey | 441-9094-0401 |
| 1/2" | 12.5 | 19.5 | 20 | 80 | 75 | 0,230 | 50 | grey | 441-9128-0401 |
| 5/8" | 16.5 | 24.5 | 20 | 75 | 125 | 0,308 | 50 | grey | 441-9160-0401 |
| 3/4" | 19.5 | 28 | 20 | 50 | 150 | 0,411 | 50 | grey | 441-9190-0401 |
| 1" | 25.4 | 35.4 | 15 | 35 | 270 | 0,568 | 50 | grey | 441-9254-0401 |
| 1/4" | 6.4 | 12.7 | 20 | 80 | 25 | 0,128 | 50 | black | 441-9064-0402 |
| 3/8" | 9.5 | 16 | 20 | 80 | 60 | 0,153 | 50 | black | 441-9094-0402 |
| 1/2" | 12.5 | 19.5 | 20 | 80 | 75 | 0,230 | 50 | black | 441-9128-0402 |
| 5/8" | 16.5 | 24.5 | 20 | 75 | 125 | 0,308 | 50 | black | 441-9160-0402 |
| 3/4" | 19.5 | 28 | 20 | 50 | 150 | 0,411 | 50 | black | 441-9190-0402 |
| 1" | 25.4 | 35.4 | 15 | 35 | 270 | 0,568 | 50 | black | 441-9254-0402 |
| 1/4" | 6.4 | 12.7 | 20 | 80 | 25 | 0,128 | 50 | red | 441-9064-0403 |
| 3/8" | 9.5 | 16 | 20 | 80 | 60 | 0,153 | 50 | red | 441-9094-0403 |
| 1/2" | 12.5 | 19.5 | 20 | 80 | 75 | 0,230 | 50 | red | 441-9128-0403 |
| 5/8" | 16.5 | 24.5 | 20 | 75 | 125 | 0,308 | 50 | red | 441-9160-0403 |



| I.D. | | O.D. | Rec. Operating limits Overpressure | Min. Bursting pressure | Bending Radius | Weight | Production Lengths | Colour | Order No. |
|--------|------|------|--|---------------------------|-------------------|--------|-----------------------|--------|---------------|
| Inches | mm | mm | bar | bar | mm | kg/m | m | | |
| 3/4" | 19.5 | 28 | 20 | 50 | 150 | 0,411 | 50 | red | 441-9190-0403 |
| 1" | 25.4 | 35.4 | 15 | 35 | 270 | 0,568 | 50 | red | 441-9254-0403 |
| 1/4" | 6.4 | 12.7 | 20 | 80 | 25 | 0,128 | 50 | green | 441-9064-0404 |
| 3/8" | 9.5 | 16 | 20 | 80 | 60 | 0,153 | 50 | green | 441-9094-0404 |
| 1/2" | 12.5 | 19.5 | 20 | 80 | 75 | 0,230 | 50 | green | 441-9128-0404 |
| 5/8" | 16.5 | 24.5 | 20 | 75 | 125 | 0,308 | 50 | green | 441-9160-0404 |
| 3/4" | 19.5 | 28 | 20 | 50 | 150 | 0,411 | 50 | green | 441-9190-0404 |
| 1" | 25.4 | 35.4 | 15 | 35 | 270 | 0,568 | 50 | green | 441-9254-0404 |
| 1/4" | 6.4 | 12.7 | 20 | 80 | 25 | 0,128 | 50 | yellow | 441-9064-0405 |
| 3/8" | 9.5 | 16 | 20 | 80 | 60 | 0,153 | 50 | yellow | 441-9094-0405 |
| 1/2" | 12.5 | 19.5 | 20 | 80 | 75 | 0,230 | 50 | yellow | 441-9128-0405 |
| 5/8" | 16.5 | 24.5 | 20 | 75 | 125 | 0,308 | 50 | yellow | 441-9160-0405 |
| 3/4" | 19.5 | 28 | 20 | 50 | 150 | 0,411 | 50 | yellow | 441-9190-0405 |
| 1" | 25.4 | 35.4 | 15 | 35 | 270 | 0,568 | 50 | yellow | 441-9254-0405 |

Other diameters and lengths available on request. All values indicated here are approximate figures based on a temperature of 20 °C. Data subject to change without notice. Please also refer to our Technical Appendix on www.norres.com; I.D. tolerance: < 13 mm +0.15 / -0.15 mm; > 13 mm +0.2 / -0.2 mm; O.D. tolerance: < 19.5 mm: +0.25 / -0.25 mm; > 19.5 mm: +0.25 / -0.25 mm

Accessories

13.3.0



CLAMP 208