



### Limitations

Gas oil and oil drops do not damage Wyrem®, but the hose should not be used to transport fuel or oil, and should never be submerged in these liquids.

Always check the compatibility of the material to transport with the Chloroprene (Neoprene).

### Applications

Vena® WYREM® flexible hoses are recommended for air fume and particle extraction and suction, dust and exhaust gases, and ventilation in general industries.

### Properties

- Exceptionally robust and durable hose.
- Excellent flexibility.
- Highly resistant to ozone.
- Good vacuum resistance, due to its specially designed structure.
- Corrugated inner and outer appearance.
- Inner and outer black colour.
- Operational temperature range from -20 to +100°C (from -4 F to 212 F)
- Smooth cuffs are available on request
- The standard manufactured length is 6 metres (19.69 ft.)

### Construction

This hose is manufactured with double reinforced layers of Chloroprene coated cotton and two spring steel helices. The inner helix is visible and the second one is trapped between the layers of cloth. Neoprene offers high resistance to chemical attack in both acidic and basic solutions. Cotton has better mechanical strength than glass fiber fabric.

### Technical Specifications

- The Wyrem® hose is not pressure tight and should not be used in pressurised applications. In these cases the maximum accepted pressure is 0,35bar (5.08 Psi).
- Available diameters and typical specifications are indicated in the table below.

| Inner Diameter |             | Wall thickness      |                    | Working Pressure<br>ISO 1402/2009 |                    | Vacuum Pressure    |                    | Min. Bending Radius<br>ISO 1746/2000 |             | Weight     |
|----------------|-------------|---------------------|--------------------|-----------------------------------|--------------------|--------------------|--------------------|--------------------------------------|-------------|------------|
| <i>mm</i>      | <i>inch</i> | <i>+0.1/-0.1 mm</i> | <i>±0.004 inch</i> | <i>Bar at 20°C</i>                | <i>Psi at 68°F</i> | <i>Bar at 20°C</i> | <i>Psi at 68°F</i> | <i>mm</i>                            | <i>inch</i> | <i>g/m</i> |
| 25             | 0.98        | 1,20                | 0.05               | 0.35                              | 5.08               | 0,45               | 6.53               | 60                                   | 2.36        | 420        |
| 32             | 1.26        | 1,20                | 0.05               | 0.35                              | 5.08               | 0,40               | 5.80               | 63                                   | 2.48        | 500        |
| 38             | 1.5         | 1,20                | 0.05               | 0.35                              | 5.08               | 0,40               | 5.80               | 65                                   | 2.56        | 570        |
| 45             | 1.77        | 1,20                | 0.05               | 0.35                              | 5.08               | 0,35               | 5.08               | 68                                   | 2.68        | 650        |
| 51             | 2.01        | 1,20                | 0.05               | 0.35                              | 5.08               | 0,35               | 5.08               | 71                                   | 2.8         | 720        |
| 60             | 2.36        | 1,20                | 0.05               | 0.35                              | 5.08               | 0,35               | 5.08               | 75                                   | 2.95        | 750        |
| 63,5           | 2.5         | 1,20                | 0.05               | 0.35                              | 5.08               | 0,30               | 4.35               | 77                                   | 3.03        | 770        |
| 76             | 2.99        | 1,20                | 0.05               | 0.35                              | 5.08               | 0,30               | 4.35               | 84                                   | 3.31        | 850        |
| 80             | 3.15        | 1,20                | 0.05               | 0.35                              | 5.08               | 0,25               | 3.63               | 87                                   | 3.43        | 880        |
| 82             | 3.23        | 1,20                | 0.05               | 0.35                              | 5.08               | 0,25               | 3.63               | 88                                   | 3.46        | 900        |
| 90             | 3.54        | 1,20                | 0.05               | 0.35                              | 5.08               | 0,25               | 3.63               | 93                                   | 3.66        | 970        |

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|----------------|-------------|-------------------------|------------------------|-----------------------------------|------------------------|------------------------|------------------------|--------------------------------------|-------------|------------|
| <i>mm</i>      | <i>inch</i> | <i>+0.1/-0.1<br/>mm</i> | <i>±0.004<br/>inch</i> | <i>Bar at<br/>20°C</i>            | <i>Psi at<br/>68°F</i> | <i>Bar at<br/>20°C</i> | <i>Psi at<br/>68°F</i> | <i>mm</i>                            | <i>inch</i> | <i>g/m</i> |
| 102            | 4.02        | 1,20                    | 0.05                   | 0.35                              | 5.08                   | 0,20                   | 2.90                   | 100                                  | 3.94        | 1100       |
| 110            | 4.33        | 1,20                    | 0.05                   | 0.35                              | 5.08                   | 0,20                   | 2.90                   | 106                                  | 4.17        | 1200       |
| 127            | 5           | 1,20                    | 0.05                   | 0.35                              | 5.08                   | 0,10                   | 1.45                   | 119                                  | 4.69        | 1460       |
| 152            | 5.98        | 1.20                    | 0.05                   | 0.35                              | 5.08                   | 0,10                   | 1.45                   | 139                                  | 5.47        | 1920       |
| 165            | 6.5         | 1.20                    | 0.05                   | 0.35                              | 5.08                   | 0,05                   | 0.73                   | 151                                  | 5.94        | 2220       |
| 180            | 7.09        | 1.20                    | 0.05                   | 0.35                              | 5.08                   | 0,05                   | 0.73                   | 166                                  | 6.54        | 2580       |
| 203            | 7.99        | 1.20                    | 0.05                   | 0.35                              | 5.08                   | 0,05                   | 0.73                   | 189                                  | 7.44        | 3230       |
| 254            | 10          | 1.20                    | 0.05                   | 0.35                              | 5.08                   | 0,05                   | 0.73                   | 250                                  | 9.84        | 4990       |
| 304            | 11.97       | 1.20                    | 0.05                   | 0.35                              | 5.08                   | 0,05                   | 0.73                   | 319                                  | 12.56       | 7180       |