

## PVC-U MERIDOR PIPE - PN10 / PN16

Technical selection data for pressure water and liquid piping

### General data

Rigid PVC-U pressure pipe for water and liquids. Standard: SI 71452-2 / EN ISO 1452. Pipe length: 5 m. Colour: grey. Joining: solvent-cement fittings. Nominal pressure classes: PN10 and PN16.

### Dimensions and minimum wall thickness

| OD (mm) | PN10 wall (mm) | PN16 wall (mm) |
|---------|----------------|----------------|
| 20      | 1.5            | 1.5            |
| 25      | 1.5            | 1.9            |
| 32      | 1.6            | 2.4            |
| 40      | 1.9            | 3.0            |
| 50      | 2.4            | 3.7            |
| 63      | 3.0            | 4.7            |
| 75      | 3.6            | 5.6            |
| 90      | 4.3            | 6.7            |
| 110     | 5.3            | 8.2            |
| 140     | 6.7            | 10.3           |
| 160     | 7.7            | 11.8           |
| 200     | 9.6            | 14.7           |
| 225     | 10.8           | 16.6           |
| 250     | 11.9           | 18.4           |
| 280     | 13.4           | 20.6           |
| 315     | 15.0           | 23.2           |

### Pressure derating with temperature

Working pressure must be reduced as temperature increases and also depends on the conveyed fluid. The following values are taken from the supplied Meridor technical specification.

| Fluid category                                    | 20°C PN10 | 20°C PN16 | 40°C PN10 | 40°C PN16 | 60°C PN10 | 60°C PN16 |
|---------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Water / fluids non-damaging to rigid PVC-U        | 10        | 16        | 6         | 10        | 1         | 2.5       |
| Damaging fluids to which rigid PVC-U is resistant | 6         | 10        | 2.5       | 4         | -         | 1         |
| Fluids with limited rigid PVC-U resistance        | 4         | 10        | 1         | 4         | -         | -         |

### Selection and installation

Select pipe diameter and PN class according to design pressure, operating temperature, conveyed fluid and installation requirements. Chemical compatibility must be checked for non-water services. Use PVC-U solvent-cement fittings suitable for the pipe size and pressure class.

### Important



Wall thickness values are minimum nominal selection values from the supplied technical specification; tolerances are governed by SI 71452-2. This sheet is a technical aid and does not guarantee stock availability for every size or pressure class.