TECHNICAL DATA SHEET

# ANJNEY

Piping Systems

## PPCH FR Pneumatic Pipes & Fittings

Composite piping engineered to ISO 15874 & ISO 9080 standards

PPCH SERIES

**OPERATING TEMPERATURE**
**−5°C to +95°C**
Refer pipe selection chart

**PRESSURE CLASSES**
**PN10 · PN16 · PN20**
SDR11 / SDR7 / SDR6

**THERMAL CONDUCTIVITY**
**0.135**
Btu/hr·ft·°F

**STANDARD LENGTH**
**5 m**
Socket fusion welding

## Specifications & Parameters

| CRITERIA | SPECIFICATION STANDARD |
|---|---|
| **Company Brand** | **ANJNEY** |
| **Product Brand** | PPCH |
| **Raw Material Standard** | ISO 9080 |
| **Manufacturing Standard** | Pipes: ISO 15874-2 : 2012<br>Fittings: ISO 16962 — Part 5 to 10 |
| **Product Colour** | Blue with U.V. resistant black layer — as per physical sample |
| **Material Composition (MOC)** | Multi-layer technology — 60% Glass Fibre & 40% Special Grade Impact Co-Polymer |
| **Thermal Conductivity** | 0.135 Btu/hr·ft·°F |
| **Surface Roughness (Ra)** | 0.1 – 0.3 Micron |
| **C-Value (Hazen-Williams)** | 145 – 150 |
| **Pressure Class Range** | • PN10 — SDR11<br>• PN16 — SDR7<br>• PN20 — SDR6 |
| **Mechanical Parameters** | • MRS (Minimum Required Strength): 12.5<br>• CRS (MPa): 5.9<br>• Other technical parameters as per Material Datasheet |
| **Grade Classification** | As per ISO 12162 — PPRCT 112.5 |
| **Temperature Resistance** | −5°C to +95°C — refer pipe selection chart |
| **UV Resistance** | UV-resistant carbon-content black layer permits direct-sunlight (outdoor) use with limited life* |

| CRITERIA | SPECIFICATION STANDARD |
|---|---|
| **Additional Feature — On Request*** | We use Impact Copolymer Raw Material to sustain Instant Impactable High Pressure |
| **3rd Party Hydro Pressure Test** | As per ISO 15874-2 : 2012, approved by CIPET:<br>• Internal pressure resistance at 20°C for 1 hour<br>• Internal pressure resistance at 95°C for 22 hours<br>• Internal pressure resistance at 95°C for 165 hours<br>• Internal pressure resistance at 95°C for 1000 hours |
| **Warranty** | As per Warranty Manual* |
| **Standard Length** | 5 Mtr |
| **Type of Welding** | Electrofusion Welding, Socket Fusion Welding |
| **Inner Diameter*** | See table below |
| **Material Safety — Storage & Installation*** | Store in a dry place. For installation safety, refer to the Do's & Don'ts sheets. |

| SIZE (OD) | APPROX. INNER DIAMETER |
|---|---|
| **63 MM** | 50 MM |
| **75 MM** | 65 MM |
| **90 MM** | 78 MM |
| **110 MM** | 95 MM |
| **160 MM** | 138 MM |
| **200 MM** | 173 MM |
| **250 MM** | 216 MM |
| **315 MM** | 270 MM |

* Items marked with an asterisk are subject to the applicable Warranty Manual, product selection charts, physical samples and the Do's & Don'ts / installation guidelines. Values are typical and may vary within the declared standards. **MRS** Minimum Required Strength · **CRS** Circumferential/Creep Strength · **SDR** Standard Dimension Ratio · **MOC** Material of Construction.

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