

# BLUE BRUTE™ PVC-U Pressure Pipes Series 2 (Blue)

**Compliance:** Manufactured in accordance with AS/NZS 1477 PVC pipes & fittings for pressure applications for Series 2 pipe C.I.O.D.\* (\*C.I.O.D. = cast iron outside diameter compatible). Iplex PVC-U pipes are independently certified in accordance with the test requirements of AS/NZS 1477. Standards Mark Licence number SMKP2569 and SMKP20181.

**Product Code:** 1880 Series

**Applications:** May be used for:

- Urban potable water supply
- Replacement of, or extension to, existing A.C./C.I. pipelines
- Agricultural irrigation and rural water supply
- Industrial processing fluids
- Slurry lines
- Acids, alkalis and aggressive chemicals\*

\*Refer to 'A Guide to Chemical Resistance of Thermoplastic and Elastomeric Materials' - available from IPLEX Pipelines.

**Jointing:** Rubber ring joints for all sizes.

**Fittings:** Deep socket standard ductile iron fittings complying with AS/NZS 2280 "Ductile iron pipes and fittings. They include elbows, tees, reducers, flanges, etc.

**Service & Connections:** Iplex recommends the use of PVC compatible, full circle supported tapping bands with BLUE BRUTE™ pipe. These include Milnes Gunmetal, Crevet Taprite or other tapping bands manufactured to AS/NZS 4793 "Mechanical Tapping Bands for Water Works Purposes". Either O or V type tapping band seals are suitable for use with BLUE BRUTE.

**"Universal" tapping bands that use U-bolt support straps are prohibited.**

Tapping bands must be installed centrally positioned over the drilled service hole. This hole should be drilled using a fine-tooth hole saw. Twist Drills or flat bits MUST NOT BE USED on any PVC pipe.

**Mechanical Couplings:** Iplex recommends the use of unrestrained mechanical couplings manufactured to AS/NZS 4998 – Bolted Unrestrained Mechanical Couplings for Water Works Purposes.

**Design & Installation:** BLUE BRUTE™ pipe should be designed and installed in accordance with the following Standards:

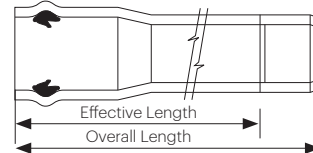
- **General Installation:**  
AS/NZS 2032, "Installation of PVC pipe systems".
- **Buried Structural Design:**  
AS/NZS 2566 Part 1 and Supplement Structural Design.

• **Detailed Installation and Site Pressure Testing:**

AS/NZS 2566 Part 2 "Installation" On site test pressure should not exceed 1.25 x the pipe PN pressure class.

**Length:** 6 metre effective length. Length of the witness mark is added to give the overall length.

Rubber Ring Joint



**Limitations:** BLUE BRUTE™ pressure pipes should not be used:

- With aromatic and chlorinated hydrocarbons, ketones, esters and ethers
- At any service temperature above 50°C
- Where provision for temperature derating has not been made above 20°C
- With compressed air
- Without adequate support to the pipe both in above ground and below ground applications
- Without adequate thrust support
- Where depth of cover is less than:
  - 300mm where pipeline is not subject to vehicular loadings
  - 450mm where pipeline is subject to vehicular loadings not in roadways
  - 600mm where pipeline is subject to vehicular loading in sealed roadways
  - 750mm where pipeline is subject to vehicular loading in unsealed roadways
  - 750mm where pipeline is subject to construction equipment loadings
- Without provision for fatigue design, to accommodate dynamic stresses where appropriate (in accordance with published PIPA guidelines)
- Where working pressure plus surge/cyclic pressure exceeds the nominated pressure performance rating of the pipe
- When exposed to direct sunlight above ground for applications or storage exceeding 24 months without protection.
- This protection may include pale coloured UV resistant paint systems, nonexposed location or physical shading
- Never tap service connections directly into the pipe wall.
- Always use a full encirclement tapping band, designed for PVC pipe.

BLUE BRUTE™ Pipe Dimensions											
Class		PN6		PN9		PN12		PN15		PN18	
Pressure rating (MPa)		(0.6 MPa)		(0.9 MPa)		(1.2 MPa)		(1.5 MPa)		(1.8 MPa)	
Approx rating (m head)		60m head		90m head		120m head		150m head		180m head	
Nom. Dia (mm)	Mean O.D. (mm)	Mean I.D. (mm)	Mean W.T. (mm)	Mean I.D. (mm)	Mean W.T. (mm)	Mean I.D. (mm)	Mean W.T. (mm)	Mean I.D. (mm)	Mean W.T. (mm)	Mean I.D. (mm)	Mean W.T. (mm)
100	121.9	-	-	-	-	108.5	6.7	-	-	102.3	9.8
150	177.3	166.1	5.6	-	-	157.7	9.8	-	-	148.9	14.2
200	232.2	-	-	-	-	209.2	11.5	202.2	15.0	-	-
250	286.2	271.6	7.3	264.8	10.7	258.0	14.1	249.2	18.5	-	-
300	345.4	328.0	8.7	319.6	12.9	311.4	17.0	-	-	-	-
375	426.2	404.6	10.8	394.4	15.9	384.4	20.9	371.2	27.5	-	-
450	507.0	-	-	469.2	18.9	-	-	-	-	-	-
500	560.3	531.9	14.2	518.4	20.9	-	-	-	-	-	-

Minimum order quantities may apply

