

PRODUCER STATEMENT

Iplex BLUE RHINO® PVC-M Pressure Pipe Series 2 (Blue)

Compliance: Manufactured in accordance with AS/NZS4765 Modified PVC (PVC-M) pipes for pressure applications for Series 2 pipe C.I.O.D. (Cast Iron Outside Diameter Compatible).

(Standardsmark Licence Number SMK02570)

Product Code: 1850 Series

Benefits: Iplex BLUE RHINO is a tough, high strength Modified PVC (PVC-M) pressure pipe suitable for a wide variety of applications. Modified PVC incorporates advanced technology which gives Iplex BLUE RHINO pipe superior qualities compared with Iplex PVC-U pressure pipe, including: higher impact resistance, greater ductility, lighter weight and an increase in hydraulic capacity.

Applications: Iplex BLUE RHINO may be used for:

- Urban potable water supply
- Agricultural irrigation, and rural water supply
- Industrial processing fluids
- Abrasive slurries in quarrying and mining
- 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 are available in all sizes, DN100 to DN525 inclusive.

Fittings: Deep socket ductile iron fittings complying with AS/NZS 2280 "Ductile iron pipes and fittings"

Service & Connections: Iplex recommends the use of PVC compatible, full circle supported tapping bands with Iplex BLUE RHINO pipe. These include Milnes Gunmetal, Crevet Taptite 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 RHINO™.

"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.

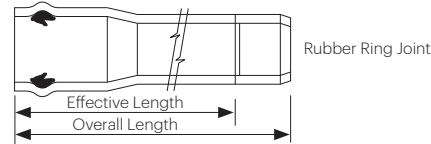
Mechanical Couplings: Iplex recommends the use of unrestrained mechanical couplings manufactured to AS/NZS 4998 – Bolted Unrestrained Mechanical Couplings for Water Works Purposes.

Design & Installation: Iplex BLUE RHINO 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 1. "Buried Flexible Pipelines - Structural Design"

- **Detailed Installation and Site Pressure Testing:**
AS/NZS 2566 Part 2 "Installation".

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



Limitations: Iplex WHITE RHINO™ and Iplex BLUE RHINO™ PVC-M 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.

| IPLEX BLUE RHINO® PVC-M Dimensions (for Series 2 pipe) | | | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Class | | PN9 | | PN12 | | PN16 | |
| Pressure rating (MPa) | | (0.9 MPa) | | (1.2 MPa) | | (1.6 MPa) | |
| Approx rating (m head) | | 90m head | | 120m head | | 160m 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) |
| 100 | 121.9 | - | - | 112.5 | 4.7 | 109.7 | 6.1 |
| 150 | 177.3 | - | - | 164.1 | 6.6 | 159.9 | 8.7 |
| 200 | 232.2 | - | - | 215.0 | 8.6 | 209.6 | 11.3 |
| 250 | 286.2 | 270.3 | 8.0 | 265.3 | 10.5 | 258.9 | 13.7 |
| 300 | 345.4 | 326.0 | 9.7 | 320.0 | 12.7 | 312.4 | 16.5 |



DN450 PN12 BLUE RHINO™ in trench ready for backfilling, under sealed road near Levin.

Minimum order quantities may apply