

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: 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 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: 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

Joining: 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 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.

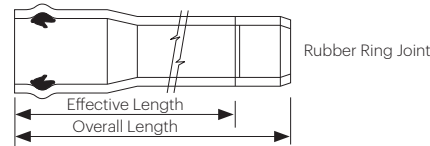
Mechanical Couplings: Iplex recommends the use of unrestrained mechanical couplings manufactured to AS/NZS 4998 – Bolted Unrestrained Mechanical Couplings for Water Works Purposes.

Design & Installation: 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 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: WHITE RHINO™ and 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.

BLUE RHINO™ PVC-M Dimensions (for Series 2 pipe)									
Class	PN9		PN12		PN16		PN20		
Pressure rating (MPa)	(0.9 MPa)		(1.2 MPa)		(1.6 MPa)		(2.0 MPa)		
Approx rating (m head)	90m head		120m head		160m head		200m 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)
100	121.9	-	-	112.5	4.7	109.7	6.1	107.3	7.3
150	177.3	-	-	164.1	6.6	159.9	8.7	156.7	10.3
200	232.2	-	-	215.0	8.6	209.6	11.3	205.6	13.3
250	286.2	270.3	8.0	265.3	10.5	258.9	13.7	253.5	16.4
300	345.4	326.0	9.7	320.0	12.7	312.4	16.5	-	-
375	426.2	-	-	395.0	15.6	386.4	19.9	-	-
450	507.0	-	-	470.2	18.4	-	-	-	-
500	560.3	529.3	15.5	519.7	20.3	-	-	-	-

Minimum order quantities may apply



DN525 PN12 BLUE RHINO™ in trench ready for backfilling, under sealed road near Levin.