PRODUCER STATEMENT

APOLLO™ Blue PVC-O Pressure Pipe Series 2 (Blue)

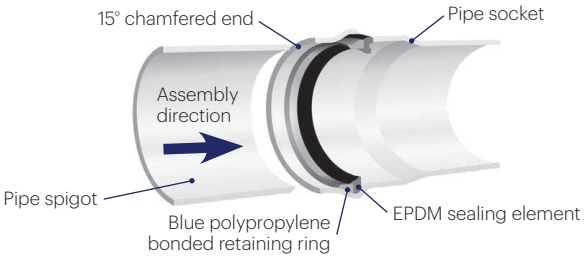
Compliance: Manufactured in accordance with AS/NZ 4441 Orientated PVC (PVC-O) Pipes for pressure applications for Series 2 pipe. Iplex PVC-O pipes are independently certified in accordance with the test requirements of AS/NZS 4441. Standards Mark Licence number SMKP20682.

Product Code: 1880 Series

Applications:

- Major potable water supply trunk and reticulation mains
- Principal water mains
- Principal pressure sewer mains
- Industrial process lines
- Effluent pipelines for industrial and rural waste
- Irrigation and turf water systems

Jointing: Pipe is supplied with a rubber ring joint utilizing the BlueSeal joint system where the seal ring is factory fitted and locked in place inside the pipe socket.



Solvent cement joints are not used with any Series 2 PVC Pipe including Apollo Blue.

Fittings: Deep socket standard 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 APOLLO™ BLUE pipe. These include Milnes Gunmetal, Crevet Taptite or other tapping bands manufactured to AS/NZS4793 "Mechanical Tapping Bands for Water Works Purposes". Either O or V type tapping band seals are suitable for use with APOLLO™ BLUE.

"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: Installation methods for APOLLO™ BLUE pipes are generally the same as those used for Iplex PVC-U and PVC-M pipes. Buried pipe installation should generally be 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.

APOLLO™ Blue PVC-O Series 2 Pressure Pipe Dimensions					
Class		PN12.5		PN16	
Pressure rating (MPa)		1.25 MPa		1.6 MPa	
Approx rating (m head)		125m head		160m head	
Design MRS MPa		35.5 MPa		45.0 MPa	
Nom. Dia (mm)	**Mean O.D. (mm)**	**Mean I.D. (mm)**	**Mean W.T. (mm)**	**Mean I.D. (mm)**	**Mean W.T. (mm)**
100	121.90	114.5	3.7	114.5	3.7
150	177.40	166.8	5.3	166.8	5.3
200	232.25	218.4	6.9	218.4	6.9
*225	259.30	244.1	7.6	244.1	7.6
250	286.25	269.4	8.4	269.4	8.4
*300	345.45	325.2	10.1	325.2	10.1

Minimum order quantities may apply.

** Subject to minimum order quantity and availablity.*

Manual site handling of light weight DN 150 S2 PN 16 APOLLO™ BLUE.

Sustainability:

- Iplex Apollo™ PVC-O, is a sustainable infrastructure pressure pipeline asset.
- It has low Embodied Energy, can utilise reprocessable PVC from its manufacture, and is fully recyclable at the end of its service life.
- Apollo's light weight requires relatively less nonrenewable energy (eg; diesel) during transportation.
- Light weight also means significantly more length of pipes per tonne of raw material can be produced, compared with almost any other pressure pipe of similar diameter and pressure class.
- APOLLO™ has no additives containing toxic heavy metal compounds, such as lead based materials. This actively prevents more of these compounds entering the environment, and positively reduces industry demand for these compounds, upstream of the manufacturing process.
- APOLLO™ manufacture produces less greenhouse gases, than for traditional non-plastic pressure pipe manufacture. Recycled cooling water resources are used during production.
- APOLLO™ is chemically inert. There is no corrosion or chemical or gas emissions during its normal long service life as a public watermain or sewer.
- APOLLO™ is also extremely durable, meaning that the one-off energy consumption in manufacture to create the pipe asset, is only required to be used once, possibly up to every 100 years if installed and operated according to the relevant codes and standards.
- Refer also to the PIPA website www.pipa.com.au/environment.