

# PVC PRESSURE SYSTEM

## PVC-M



**PDHRW09450**

**DN450 x 6m PN9 White Rhino Series 2 PVC-M Pipe Rieber RRJ**

**APPLICATION** Used for above or below ground applications to convey potable water in pressure applications.

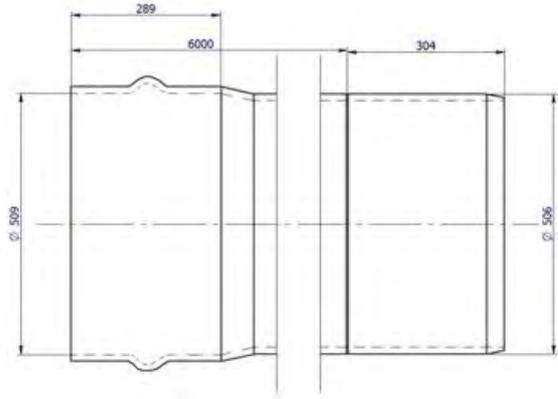
### FEATURES

- Australian Made
- BEP PVC - Manufactured from Best Environmental Practice PVC
- Installation Economics
- Operation Efficiencies
- Corrosion Resistant
- Light weight
- Electrically non conductive

### TECHNICAL DATA

#### PRODUCT PROPERTIES

Primary Material	PVC-M
Colour	White
Joint Type	RRJ
Rubber Ring Material	EPDM
Allowable Operation Temperature - Degrees	50°C
Allowable Operating Pressure - 20°C	900kPa
Average # of Joints per Litre – Iplex Lubricant	5
Unprotected UV Exposure (years)	2 Years
Maximum Diametric Deflection - 50 Years	7.50%
Minimum Radius of Curvature	135m
Socket Deflection	1°



#### PRODUCT DIMENSIONS

Category	Length	Max Socket Nominal OD	507mm
Rating	PN9	Chamfer Detail	36mm
Length	6m	Witness Mark	309mm
Nominal	450mm	Weight	195kg
ID	480.1mm	Crate Qty	2
Wall Thickness	13.5mm	Crate Weight	390kg
Socket Depth	289.2mm		

#### ENVIRONMENTAL CREDENTIALS AND STANDARDS

Environmental Accreditation	Best Environmental PVC - PVC Certificate No. BEP-PVC 0037
Product Standard	AS/NZS 4765 "Modified PVC (PVC-M) Pipes for Pressure Applications"
Standards Mark Certification SMK02730.4, SMK02468.4, SMK02748	WSAA Appraisal - PA1612

### MATERIAL PROPERTIES

#### MECHANICAL

Density Specific Gravity	1.47
Ultimate Tensile Strength	38MPa
Yield Strain	5.5%
Compressive Strength	48MPa
Tensile Modulus	3000MPa
Hardness Shore D	85
Poissons Ratio	0.38
Design Stress	17.5MPa
Ring Bending Modulus (3mins)	3000MPa
Ring Bending Modulus (50Yrs)	1200MPa

#### THERMAL

Coefficient of Thermal Expansion	$7 \times 10^{-5} / ^\circ\text{C}$
Thermal Conductivity	0.138W/m.K
Specific Heat	1047 J/kg/°C
Vicat Softening Temperature	>79°C
Flammability	Will not support combustion
Fire Index – Ignitability	2
Fire Index – Smoke Development	8
Fire Index – Spread of Flame	0
Fire Index – Heat Evolved	2

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