

EURAPIPE

ABS Pressure Pipe Systems



DURAFLO Range

Product Specification Manual



EURAPIPE



DURAFLO Systems

Address

125-175 Patullos Lane
Somerton, Victoria 3062
AUSTRALIA

Telephone

Free call 1800 811 848

Facsimile

61 3 9305 4380

Email

twpps@tycowater.com

Web site

www.eurapipe.com.au



DURAFLO Systems

CONTENTS

1 INTRODUCTION

- 1-2 SCOPE
- 1-2 DURAFLO
- 1-2 FREEFLO
- 1-3 MANUFACTURING STANDARDS
- 1-3 CUSTOMIZED FABRICATION
- 1-4 QUALITY ASSURANCE
- 1-4 LIMITATIONS OF LIABILITY

2 ABS PIPE SYSTEMS

- 2-2 ABS
- 2-2 ENVIRONMENTAL ADVANTAGE
- 2-2 IMPACT STRENGTH
- 2-2 CHEMICAL RESISTANCE
- 2-2 ABRASION RESISTANCE
- 2-2 WEATHER RESISTANCE
- 2-3 NON TOXIC / TAINT FREE
- 2-3 EXCEPTIONALLY SMOOTH BORE
- 2-3 SIZE AND PRESSURE RANGE
- 2-3 TEMPERATURE RANGE
- 2-3 LIGHT WEIGHT
- 2-3 JOINING SYSTEMS

3 ABS MATERIAL

- 3-2 INTRODUCTION
- 3-2 THE MATERIAL
- 3-3 MATERIAL PROPERTIES
- 3-4 IMPACT STRENGTH
- 3-4 MODE OF FAILURE
- 3-5 THERMAL EXPANSION
- 3-5 TOXICITY AND TAINT
- 3-5 RIGIDITY AND STIFFNESS
- 3-6 WEATHERING
- 3-6 ABRASION RESISTANCE
- 3-7 CHEMICAL RESISTANCE

4 DURAFLO DESIGN

- 4-2 INTRODUCTION
- 4-2 SYSTEM SELECTION CRITERIA
- 4-3 VALVE SELECTION CRITERIA
- 4-4 PIPE DESIGN CRITERIA
- 4-5 PRESSURE/TEMPERATURE DERATING
- 4-6 FLOW CALCULATIONS FOR LIQUIDS
- 4-8 THERMAL EXPANSION
- 4-9 DESIGNING FOR PIPE EXPANSION
- 4-9 PIPE ROUTE PLANNING
- 4-10 EXPANSION LOOPS
- 4-11 EXPANSION COMPENSATOR

- 4-11 RUBBER BELLOWS
- 4-11 PIPE WALL STRESSING
- 4-12 PIPE SUPPORT
- 4-12 PIPE SUPPORT PADS
- 4-13 PIPE ANCORS
- 4-14 SUPPORT OF HEAVY PIPE LINE ACCESSORIES
- 4-14 PIPE SUPPORT CENTRES
- 4-15 DEFLECTING PIPES ON A CURVE
- 4-15 ANGULAR DEFLECTION
- 4-16 COLLAPSE RESISTANCE
- 4-16 PRESSURE TESTING

5 ABS INSTALLATION

- 5-2 INTRODUCTION
- 5-2 HANDLING AND STORAGE
- 5-3 JOINING SYSTEMS
- 5-4 COLD SOLVENT CEMENT WELDING
- 5-6 COLD SOLVENT CEMENT WELDING PROCEDURE
- 5-11 INSTALLATION OF BOLT ON SADDLES
- 5-12 ELASTOMERIC SEAL JOINING PROCEDURE
- 5-13 FLANGED JOINTS
- 5-14 THREADED CONNECTIONS
- 5-15 BURIED PIPELINES
- 5-16 REPAIR OF DAMAGED PIPES
- 5-17 ABOVE GROUND LINES
- 5-18 HYDROSTATIC PRESSURE TESTING

6 DURAFLO PIPES & FITTINGS

7 FLOW NOMOGRAMS



DURAFLO Systems

CONTENTS

1 INTRODUCTION

1

2 ABS PIPE SYSTEMS

2

3 ABS MATERIAL

3

4 DURAFLO DESIGN

4

5 ABS INSTALLATION

5

6 DURAFLO PIPES & FITTINGS

6

7 FLOW NOMOGRAMS

7