

Connection Code Bulletin 2006 – 1

Issue/s: Introduction of DN200 and Larger Series 2 PVC Pressure Pipe for Water Distribution
Audience: Proponents, Project Managers, Designers, Construction Supervisors, Constructors
Date: 12 January 2006

Introduction

The Power and Water Corporation has experienced difficulties in obtaining Series 1 (white) PVC pressure pipe in sizes above DN150. For this reason, we have made a change to our policy and will soon allow the use of Series 2 (blue) PVC pressure pipe in DN200 and larger (up to and including DN375) for potable water distribution.

Series 2 (blue) PVC pressure pipe is used by many water utilities across Australia and is more readily available than Series 1 (white) PVC pressure pipe currently approved for use in Power and Water systems.

PVC pressure pipe manufacturers (Iplex, Vinindex and Tyco) have been asked to submit product approval applications for their Series 2 (blue) PVC pressure pipe in DN200, DN225, DN250, DN300 and DN375 for pressure classes 12, 16 and 20.

At this time, there is no intention to change from Series 1 PVC pressure pipe in DN150 and smaller sizes.

For sewer rising mains, Series 1 PVC pressure pipe will continue to be used in all sizes. This aligns with Water Services Association of Australia (WSAA) codes.

When will this change be implemented?

The use of Series 2 (blue) PVC pressure pipe will be permitted for potable water distribution in DN200 and larger sizes (up to and including DN375) from 1 March 2006.

This date is based on construction commencement (ie. laying of Series 2 pipe before 1 March 2006 will require specific project approval from the Land Development section of Power and Water).

The use of Series 1 (white) PVC pressure pipe in DN200 and larger sizes for new construction will be phased out by 31 December 2006.

Mixtures of larger diameter Series 1 (white) and Series 2 (blue) PVC pressure pipe in a development will not be permitted (eg. use of DN225 diameter Series 1 (white) and DN300 Series 2 (blue) PVC pressure pipe within the same development).

When will PVC-O Pipe be approved for use?

As advised in Connection Code Bulletin 2005 – 1, PVC-O pipe has not been approved for use in Power and Water's network.

It is expected that one or more PVC pipe manufacturers will seek approval for PVC-O pipe in conjunction with their product approval applications for Series 2 (blue) PVC pressure pipe. Power and Water will need one or two months to research the background to this relatively new product whilst processing the applications and the approval of PVC-O pipe will probably lag behind that for U-PVC and PVC-M pipe.

Will the use of PVC pipe be permitted in sizes above DN375?

No. The largest size of PVC pressure pipe that can be used in Power and Water's network will remain at DN375. As advised in Connection Code Bulletin 2005 – 1, the use of PVC pressure pipe is permitted up to DN375, however specific project approval is required from the Land Development section of Power and Water for sizes above DN225.

Are there any specific design issues related to this change?

Design and "as constructed" drawings must identify Series 2 PVC pipe. A notation of (S2) PVC is proposed (eg. DN225 (S2) PVC). The lack of a notation for pipe series type will indicate Series 1 PVC pipe.

For DN300 pipe, standard couplings are unable to connect Series 1 PVC pipe to Series 2 PVC (or D1CL) pipe and additional consideration will be required to jointing.

How can I get more information?

Additional Connection Code Bulletins will be issued as product approvals are granted to Series 2 (blue) PVC pressure pipe.

The Land Development section of Power and Water administers the Connection Code and associated activities including the asset creation process for Power and Water's water supply and sewerage infrastructure. Contacts are:

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