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Mechanical couplings for drain, waste, and vent pipe and sewer pipe

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Preface

This is the fifth edition of CSA B602, *Mechanical couplings for drain, waste, and vent pipe and sewer pipe*. It supersedes the previous editions published in 2005, 1999, 1990, and 1988 (Preliminary Standard).

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the Technical Committee on Mechanical Couplings for DWV Pipe and Sewer Pipe, under the jurisdiction of the Strategic Steering Committee on Water Management Products, Materials, and Systems, and has been formally approved by the Technical Committee. This Standard will be submitted to the Standards Council of Canada for approval as a National Standard of Canada.

August 2010

Notes:

(1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*

(2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*

(3) *This publication was developed by consensus, which is defined by* CSA Policy governing standardization — Code of good practice for standardization *as "substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity". It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this publication.*

(4) *CSA Standards are subject to periodic review, and suggestions for their improvement will be referred to the appropriate committee.*

(5) *All enquiries regarding this Standard, including requests for interpretation, should be addressed to Canadian Standards Association, 5060 Spectrum Way, Suite 100, Mississauga, Ontario, Canada L4W 5N6.*

Requests for interpretation should

(a) define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;

(b) provide an explanation of circumstances surrounding the actual field condition; and

(c) be phrased where possible to permit a specific "yes" or "no" answer.

Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization *and are published in CSA's periodical* Info Update*, which is available on the CSA Web site at www.csa.ca.*

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Mechanical couplings for drain, waste, and vent pipe and sewer pipe

1 Scope

1.1
This Standard covers mechanical couplings that are used to axially join pipes and fittings in non-pressure drain, waste, and vent (DWV) piping systems and sewer piping systems located inside or outside buildings and above ground or underground.

Notes:

(1) *Caution should be exercised when installing mechanical couplings at low temperatures. The coupling manufacturer should be consulted.*

(2) *Caution should also be exercised when installing mechanical couplings at the base of stacks, at cleanouts, or at offsets in a piping system (see Annex A).*

1.2
This Standard specifies requirements for mechanical couplings of the following types:

(a) Type 1: couplings that are used to join pipes of the same or different materials or sizes and that incorporate a centre stop and an external shield.

(b) Type 2: couplings that are used to join pipes of the same or different materials or sizes, but for which a centre stop and/or shear ring are allowed but not required.

(c) Type 3: couplings used to join hubless cast iron pipe and fittings. Such couplings are composed of a stainless steel shield, a clamp assembly, and an elastomeric sealing component that complies with ASTM C564.

Note: *Pipe and pipe-fitting materials that may be joined include*

(a) asbestos cement (CAN/CSA-B127.1);

(b) cast iron (CAN/CSA-B70);

(c) concrete (CSA A257 Series and ASTM C14);

(d) copper (ASTM B306);

(e) acrylonitrile-butadiene-styrene (ABS) (CAN/CSA-B181.1, CAN/CSA-B182.1, ASTM D2661, and ASTM F628);

(f) polyvinylchloride (PVC) (CAN/CSA-B181.2, CAN/CSA-B182.1, CAN/CSA-B182.2, ASTM D2665, and ASTM F891);

(g) galvanized steel (ASTM A53/A53M); and

(h) vitrified clay (ASTM C700).

1.3
This Standard does not cover the joining of pipes and fittings with bell and spigot ends that use an elastomeric gasket seal.

1.4
Users should note the existence of other standards developed for different types of couplings or coupling materials, e.g., ASTM C1173, ASTM C1277, ASTM C1440, ASTM C1460, ASTM C1461, ASTM C1540, and ASTM D5926.