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CSA B602:20
National Standard of Canada

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

Standards Council of Canada
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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 to judge its suitability for their particular purpose.

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

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Contents

Preface

This is the seventh edition of CSA B602, *Mechanical couplings for drain, waste, and vent pipe and sewer pipe*. It supersedes the previous editions published in 2016, 2010, 2005, 1999, 1990, and 1988.

The major changes in this new edition are

a) revision to Clause 5.2.1 for chemical composition requirements;
b) clarification of the required test pressure for size-transition couplings in Clause 6.1.3;
c) addition of 350, 400 ,and 450 mm Type 1 Couplings to Tables 2 and 3;
d) removal of Figure A.1 from Annex A; and
e) addition of Clause A.3 to Annex A.

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 and Sewer Pipe, under the jurisdiction of the Strategic Steering Committee on Construction and Civil Infrastructure, and has been formally approved by the Technical Committee.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

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 Standard 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 Standard.*
4) *To submit a request for interpretation of this Standard, please send the following information to inquiries@csagroup.org and include "Request for interpretation" in the subject line:*
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   a) *Standard designation (number);*
   b) *Relevant clause, table, and/or figure number;*
   c) *Wording of the proposed change; and*
   d) *Rationale for the change.*

CSA B602:20
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.
d) Type 4: elastomeric bellows expansion joint couplings used to join pipe of the same or different materials or sizes incorporating pipe stops.

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

a) *fibrocement (CSA B127.3);*
b) *cast iron (CSA B70);*
c) *concrete (CSA A257 Series and ASTM C14);*
d) *copper (ASTM B306);*
e) *acrylonitrile-butadiene-styrene (ABS) (CSA B181.1, CSA B182.1, ASTM D2661, and ASTM F628);*
f) *polyvinylchloride (PVC) (CSA B181.2, CSA B182.1, 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.

