Bureau de normalisation du Québec

BNQ 3624-027/2016 (R 2026)

Polyethylene (PE) Pipe for the Transport of Fluids Under Pressure

STANDARD

BNQ 3624-027/2016
(R 2026)

Polyethylene (PE) Pipe for the Transport of Fluids Under Pressure

Tuyaux en polyéthylène (PE) pour le transport des liquides sous pression

Bureau de normalisation du Québec

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SECOND EDITION — 2026-04-22

This edition reaffirms (reapproves) the edition dated September 12, 2016, which now includes Modification No. 1 dated March 5, 2026. Consequently, this edition is equivalent to the previous edition.

This document is published in both French and English. In case of incompatibility, the French version prevails.

The decision resulting from the systematic review that will enable to determine whether the current document shall be modified, revised, reaffirmed or withdrawn will be implemented no later than at the end of April 2036.

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Except for notes presented as **normative notes**, which set out mandatory requirements and which appear in the lower portion of figures and tables only, all other **notes** are **informative** (non-mandatory) and provide useful information intended to facilitate understanding or clarify the intent of a requirement or to add clarification or further details.

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FOREWORD

This standard was developed in compliance with the Standards Council of Canada (SCC)'s Requirements and Guidance for standards development organizations. Its reaffirmation was approved by a Standards Development Committee, whose members were:

Suppliers

CHARKY, Alain	IPEX
GROEN, Gerry	Infra Pipes Solutions

Users

BÉLANGER, Hélène	Ville de Québec
ROBIDAS, Maryse	Corporation des officiers municipaux en bâtiment et en environnement du Québec (COMBEQ)
TREMBLAY, Frédéric	Association des ingénieurs municipaux du Québec (AIMQ)

General Interest

BEAUMIER, David	EKOMETRIK
COUILLARD, Claude	Centre d'expertise et de recherche en infrastructures urbaines (CERIU)
LECLAIR, Éric	Coalia

Bureau de normalisation du Québec (BNQ) Coordination Team

FAYE, Moustapha

TREMBLAY, Carole

The 2016 edition of this standard was prepared by a Standards Development Committee, whose members were:

BEAUMIER, David	Groupe CTT (Sageos)
BERNARD, France	Association des ingénieurs municipaux du Québec (AIMQ)
BOUVET, Claude	André Bouvet ltée
COUILLARD, Claude	Ville de Québec — Service de l'ingénierie
GINGRAS, Jean	Corporation des officiers municipaux et en environnement du Québec (COMBEQ)
GROEN, Gerry	UPONOR Infra Ltd
LECLAIR, Éric	Centre de technologie minérale et de plasturgie (CTMP)
LEROUX, Serge	IPEX Gestion inc.
MERCIER, Serge	Les produits VersaProfiles
PAILLÉ, Claude	Ville de Trois-Rivières
GAGNÉ, Nicole (Standards Developer)	Bureau de normalisation du Québec (BNQ)

The participation of Tom Kostarides from UPONOR Infra Ltd and Joël Lambert, formerly from the Ville de Trois-Rivières, is also worthy of mention.

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1 PURPOSE

This standard specifies the characteristics and test methods relating to solid-wall high-density polyethylene (HDPE) pipe having a hydrostatic design basis greater than or equal to 11 MPa.

NOTE — The designer may apply one or the other of the service coefficients in Table 2 for different working pressures.

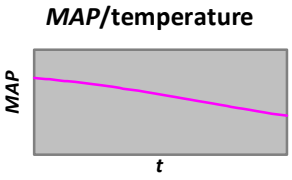
2 SCOPE

This standard applies to pipe designated by outside diameters belonging to three dimension ranges: CTS (copper tube size), IPS (iron pipe size) and DIPS (ductile iron pipe size) [see Table 1].

This standard applies to pipe designed for the transport of fluids under pressure, whether or not the fluids are loaded with solid particles. Such pipe is used specifically for raw water, drinking water and wastewater pipelines, for industrial and mining piping and for geothermal needs.

This standard does not apply to pipe intended for the transport and distribution of gas or to pipelines whose working temperature exceeds 60 °C.

ATTENTION — Pipe defined in this standard is designed according to nominal pressures established at 23 °C (see Table 2). The maximum allowable pressure *MAP* for a pipe component is in function of the temperature *t*, as the figure to the right illustrates. It follows that any mention of *MAP* shall be completed by the mention of the corresponding temperature. The thermal factors to use when calculating working pressure at temperatures exceeding 23 °C shall be subject to a recommendation by the manufacturer.



This standard was developed to serve as a reference document for conformity assessment activities of specific products.

NOTE — Conformity assessment is defined as the systematic examination of the extent to which a product fulfils specified requirements.

3 NORMATIVE REFERENCES

3.1 GENERAL

The references below (including any amendment or errata) are normative references, and are therefore considered mandatory. They are essential to the understanding and use of this standard, and are cited in appropriate places in the text.