



# CSA B149.2:20

## National Standard of Canada



# Propane storage and handling code



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# *National Standard of Canada*

## *CSA B149.2:20* *Propane storage and handling code*

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# Contents

Technical Committee on Propane Storage and Handling	5
Interprovincial Gas Advisory Council (IGAC)	9
Preface	11
<b>0 Introduction</b>	<b>13</b>
<b>1 Scope</b>	<b>13</b>
<b>2 Reference publications</b>	<b>14</b>
<b>3 Definitions</b>	<b>18</b>
<b>4 General</b>	<b>25</b>
4.1 Application	25
4.2 Approval of appliances, accessories, components, equipment, and material	26
4.3 Responsibilities of the installer	26
4.4 Training and quality of labour	27
4.5 Suitability of use	27
4.6 Electrical connections and components	27
4.7 Hazardous and corrosive locations	28
4.8 Smoking	28
4.9 Isolation of safety devices	28
4.10 Leak detection	28
4.11 Appliance clearances to combustibile material	28
4.12 Accessibility	28
4.13 Appliance ductwork connections	29
4.14 Combined heating systems	29
4.15 Appliances protected by automatic fire-extinguishing systems	29
4.16 Control of appliances with self-energized pilots	29
4.17 Defective heat exchangers	30
4.18 High-altitude installations	30
4.19 Protection of appliances from physical damage	30
<b>5 General requirements for propane and propane equipment</b>	<b>30</b>
5.1 Odorization	30
5.2 Container filling	30
5.3 Protection of containers and equipment	32
5.4 Pressure regulators	32
5.5 Line relief valves	33
5.6 Hydrostatic relief valves	33
5.7 Vent and discharge lines from pressure regulators and line relief valves	33
5.8 Termination of vent and discharge lines from regulators, line relief valves, and hydrostatic relief valves	34
5.9 Piping, tubing, gas hose, and fittings	34
5.10 Propane containers restriction	34

5.11	Propane as an engine fuel in other than motor vehicles	34
5.12	Fuel systems other than fuel systems for motive power	36
<b>6</b>	<b>Cylinder systems</b>	<b>37</b>
6.1	Requirements for cylinders	37
6.2	Liquid level gauges on cylinders	39
6.3	Automatic regulating equipment	39
6.4	Purging and filling of cylinders	39
6.5	Storage and use of cylinders at locations other than filling plants	41
6.5.1	General	41
6.5.2	Cylinders stored outdoors for commercial or industrial use or sale	43
6.5.3	Cylinders at construction sites	45
6.5.4	Cylinders supplying propane for welding, cutting, and preheating processes	47
6.5.5	Cylinders at commercial and industrial sites to supply propane for industrial trucks and ice maintenance equipment	48
6.5.6	Storage of non-refillable cylinders in retail outlets and their warehouses (mercantile occupancies)	48
6.5.7	Cylinders at sites where propane is supplied for cleaning and polishing appliances	50
6.5.8	Storage of cylinders located in special rooms or buildings	51
6.5.9	Cylinders supplying propane to portable food-serving carts located indoors	51
6.5.10	Construction of special cylinder storage rooms or buildings	52
6.6	Transportation of cylinders	52
6.7	Installation of cylinders	52
6.8	Rooftop installation of cylinder systems	53
6.9	Diking and grading	54
6.10	Handling of cylinders at shows, exhibitions, or other similar events	54
6.11	Handling of cylinders in classrooms	54
<b>7</b>	<b>Tank systems, filling plants, and refill centres</b>	<b>54</b>
7.1	General	54
7.2	Relief valves	56
7.3	Emergency shut-off valves	57
7.4	Excess-flow and back check valves	58
7.5	Pressure gauges on tanks	59
7.6	Liquid-level gauges on tanks	59
7.7	Filling of tanks	60
7.8	Installation of underground tanks	61
7.9	Discharge from tank relief valves	64
7.10	Location of consumer tanks	65
7.11	Tank supports	65
7.12	Filling plants and refill centres	67
7.13	Electrical equipment at filling plants	69
7.14	Storage of containers at filling plants	69
7.15	Fencing of filling plants	69
7.16	Location of tanks at filling plants and container refill centres	69
7.17	Container filling locations with provisions for container storage	70
7.18	Filling plants served by rail	72
7.19	Container refill centres	72
7.19.1	General	72

7.19.2	Fencing of container refill centres	73
7.19.3	Ventilated cabinets or enclosures	73
7.19.4	Protection against vehicular traffic (see Annex B)	73
7.19.5	Electrical equipment	74
7.20	Dispensing system	74
7.21	Movement of tanks not designed for transportation or delivery of propane	80
7.22	Operations and maintenance procedures	80
7.22.1	General	80
7.22.2	Documentation of procedures	80
7.22.3	Review and maintenance of procedures	81
7.22.4	Operating procedures	81
7.22.5	Maintenance procedures	81
<b>8</b>	<b>Tank trucks, tank trailers, and cargo liners</b>	<b>82</b>
8.1	General	82
8.2	Electrical equipment and lighting on tank trucks, tank trailers, and cargo liners	82
8.3	Engine fuel	82
8.4	Filling of tank trucks, tank trailers, and cargo liners	82
8.5	Operation of tank trucks, tank trailers, and cargo liners	83
8.6	Parking vehicles used to transport propane	83
8.7	Vehicles parked in public parking garages	84
8.8	Vehicles parked in private garages	84
8.9	Repair or servicing in private garages	84
8.10	Repair or servicing in repair garages	85
<b>9</b>	<b>Vaporizers</b>	<b>85</b>
9.1	General	85
9.2	Indirect vaporizers	86
9.3	Direct-fired vaporizers	87
9.4	Tank heaters	87

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Annex A (informative)	— Purging procedures for propane containers	89
Annex B (informative)	— Guide for tank installations	94
Annex C (informative)	— Concrete trough	97
Annex D (informative)	— Barrier protection	98
Annex E (informative)	— Piping expansion and flexibility	99
Annex F (informative)	— Reference diagram for electrical classification	101
Annex G (informative)	— Sizing of dip tube length	103
Annex H (informative)	— Guide for underground tank installations	104
Annex I (informative)	— General information	106
Annex J (informative)	— Two-stage regulation	123
Annex K (informative)	— Hose connector lengths	125
Annex L (informative)	— Risk and safety management plans	126
Annex M (informative)	— Direct-fired vaporizer installation	128
Annex N (informative)	— Propane dispensing system	131
Annex O (normative)	— Use of non-refillable propane cylinders in laboratories/classrooms in schools, colleges, and universities	132
Annex P (informative)	— Propane industry application map	135
Annex Q (informative)	— Temporary use of cylinders at shows, exhibitions or other similar events	136



Annex R (informative) — Inspection and servicing of pressure relief devices (PRDs) on tanks 138

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# Preface

This is the twelfth edition of CSA B149.2, *Propane storage and handling code*. It supersedes the previous editions, published in 2015, 2010, 2005, and 2000 by CSA Group (CSA) as CAN/CSA-B149.2, in 1995, 1991, 1986, 1980, 1978, and 1976 by the Canadian Gas Association (CGA), and in 1969 by CSA Group.

The main changes from the previous edition are as follows:

- a) updated Code Scope exclusions (Clause [1.2](#));
- b) updated reference publications (Clause [2](#));
- c) added requirements for cylinders used on hot air balloon applications (Clauses [6.1.12](#) and [6.4.7](#) to [6.4.10](#));
- d) updated requirements for cylinder exchange (Clauses [6.4.5](#), [6.5.1.8](#), [6.5.2.6.1](#), and [6.5.2.6.2](#));
- e) added requirements for handling of cylinders at shows, exhibitions, or other similar events (Clause [6.10](#) and Annex [Q](#));
- f) added requirements for handling of cylinders in classrooms (Clause [6.11](#) and Annex [O](#));
- g) added requirements for underground tank installations (Clause [7.8.19](#));
- h) updated requirements for tank location and support (Clauses [7.10.2](#), [7.10.3](#), and [7.11.3](#) and Table [7.4](#));
- i) updated requirements for signage at filling plants and refill centres (Clause [7.12.10](#));
- j) updated requirements for protection against vehicular traffic (Clauses [7.19.4.2](#) and [7.19.4.5](#));
- k) updated requirements for vehicle fuel dispensers (Clauses [7.20.12](#) and [7.20.13](#));
- l) updated requirements for vaporizers (Clause [9.1.10](#), [9.2.4](#), and [9.3.5](#)); and
- m) added Annex [R](#) — “Inspection and servicing of pressure relief devices on tanks”.

This Code was prepared by the Technical Committee on Propane Storage and Handling, under the Fuels and Appliances Strategic Steering Committee, and has been formally approved by the Technical Committee and the Interprovincial Gas Advisory Council.

This Code 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.

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  - d) *rationale for the change.*

# CSA B149.2:20

## Propane storage and handling code

### 0 Introduction

In 1958, the Canadian Standards Association published the first edition of CSA B149, *Installation Code for Gas Burning Appliances and Equipment*. It was superseded by later editions in 1962, 1966, and 1971.

Following the publication of the 1966 edition, the decision was made to split the Code into two parts: the first part, B149.1, dealing with the installation requirements for appliances and equipment burning natural gas; the second part, B149.2, dealing with the installation of appliances and equipment burning propane. As a first step, B149.2 was prepared and first published in 1969.

The Canadian Gas Association was accredited by the Standards Council of Canada as the standards development organization responsible for preparing standards for gas-burning appliances and equipment, and in this connection took over responsibility for the B149 Code in 1974. New editions of the Code were subsequently published in 1976, 1978, 1980, 1986, 1991, and 1995.

On June 30, 1997, the Canadian Standards Association acquired International Approval Services (IAS), which was until then a joint venture of the American Gas Association (AGA) and the Canadian Gas Association. Under this agreement, CSA acquired the complete range of IAS standards administration, certification, and registration products and services for appliances and accessories fuelled by natural and liquefied petroleum gases. In 1998, the CSA B149 Installation Code Committee agreed to publish a *Natural Gas and Propane Installation Code* that would amalgamate the first seven sections of CAN/CGA-B149.1 and CAN/CGA-B149.2 to become CSA B149.1-00. This amalgamation was in response to the trend among the authorities having jurisdiction of combining licensing and training for natural gas and propane. The remaining sections 8 to 14 of CAN/CGA-B149.2 became CSA B149.2-00, *Propane Storage and Handling Code*.

### 1 Scope

#### 1.1

This Code applies to

- a) the storage, handling, and transfer of propane;
- b) propane used as an engine fuel in other than motor vehicles; and
- c) the installation, operation, and maintenance of containers and equipment to be used for propane at customer locations, in distribution locations and filling plants.

#### 1.2

This Code does not apply to

- a) transportation of propane;
- b) manufacture, selection, and use of standardized means of containment under the *Transportation of Dangerous Goods Act and Regulations*;
- c) new containers which have not contained propane or used containers identified as having been purged to less than 5% of the LEL as determined by a calibrated gas meter;
- d) marine or pipeline terminals;