CSA Group

CAN/CSA-C156.1-18
National Standard of Canada

Ceramic and glass station post insulators

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Preface

This is the second edition of CAN/CSA-C156.1, *Ceramic and glass station post insulators*. It supersedes the first edition published in 1986 as well as CAN/CSA C156.3, *Test methods for station post insulators*.

The main revisions reflected in this new edition include
a) commonly used Canadian sizes have been included; and
b) the Standard has been aligned with current industry practices.

This Standard was prepared by the Technical Committee on Insulators, under the jurisdiction of the Strategic Steering Committee on Power Engineering and Electromagnetic Compatibility, 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:*
   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) *where possible, phrase the request in such a way that a specific "yes" or "no" answer will address the issue.*

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   b) *relevant clause, table, and/or figure number;*
   c) *wording of the proposed change; and*
   d) *rationale for the change.*

CAN/CSA-C156.1-18
Ceramic and glass station post insulators

1 Scope

1.1
This Standard specifies the electrical, mechanical, dimensional characteristics, test methods, and acceptance criteria for solid-core and cavity core ceramic and glass type station post insulators for outdoor service in electrical installations or equipment operating with a rated voltage greater than 1000 V and a rated frequency not greater than 100 Hz.

Note: *Hollow core insulators are not part of this Standard*

1.2
This Standard covers insulators intended primarily for use as support or operating elements in switching equipment, or as bus bar or other equipment supports in station.

Note: *The electrical and mechanical characteristics for direct current insulators are similar to the comparable characteristics for alternating current insulators. However, due to the unidirectional voltage stress, special attention needs to be paid to the pollution susceptibility and to the location of insulators in a direct current scheme.*

1.3
In this Standard, “shall “is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the Standard; “should“ is used to express a recommendation or that which is advised but not required; and “may“ is used to express an option or that which is permissible within the limits of the Standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

1.4
The values given in SI units are the units of record for the purposes of this Standard. The values given in parentheses are for information and comparison only.

2 Reference publications
This Standard refers to the following publications and where such reference is made it shall be to the edition listed below, including all amendments published thereto:

