

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Automatic electrical controls for household and similar use –
Part 2-19: Particular requirements for electrically operated oil valves, including
mechanical requirements**

**Dispositifs de commande électrique automatiques à usage domestique et
analogue –
Partie 2-19: Règles particulières pour les électrovannes de combustible liquide,
y compris les prescriptions mécaniques**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

AUTOMATIC ELECTRICAL CONTROLS FOR HOUSEHOLD AND SIMILAR USE –

Part 2-19: Particular requirements for electrically operated oil valves, including mechanical requirements

FOREWORD

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International Standard IEC 60730-2-19 has been prepared by IEC technical committee 72: Automatic controls for household use.

This consolidated version of IEC 60730-2-19 consists of the first edition (1997) [documents 72/350/FDIS/ and 72/373/RVD], its amendment 1 (2000) [documents 72/467/FDIS and 72/491/RVD] and its amendment 2 (2007) [documents 72/745/FDIS and 72/750/RVD].

The technical content is therefore identical to the base edition and its amendments and has been prepared for user convenience.

It bears the edition number 1.2.

A vertical line in the margin shows where the base publication has been modified by amendments 1 and 2.

This Part 2-19 is intended to be used in conjunction with IEC 60730-1. It was established on the basis of the third edition of that standard (1999) and its amendment 1 (2003). Consideration may be given to future editions of, or amendments to IEC 60730-1.

This part 2 supplements or modifies the corresponding clauses in IEC 60730-1, so as to convert that publication into the IEC standard: *Particular requirements for electrically operated oil valves, including mechanical requirements*.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

Where this part 2 states "addition", "modification" or "replacement", the relevant requirement, test specification or explanatory matter in part 1 should be adapted accordingly.

Where no change is necessary, part 2 indicates that the relevant clause or subclause applies.

In the development of a fully international standard it has been necessary to take into consideration the differing requirements resulting from practical experience in various parts of the world and to recognize the variation in national electrical systems and wiring rules.

The "in some countries" notes regarding differing national practice are contained in the following subclauses:

- Table 7.2, requirement 120
- Table 7.2, note 102
- 11.103
- 11.105.1
- 11.105.2
- 11.113
- 18.102
- 27.2.101.1
- H.26.10

In this publication:

1) The following print types are used:

- requirements proper: in roman type;
- *test specifications: in italic type;*
- explanatory matter: in smaller roman type.

2) Subclauses, notes or items which are additional to those in part 1 are numbered starting from 101.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

AUTOMATIC ELECTRICAL CONTROLS FOR HOUSEHOLD AND SIMILAR USE –

Part 2-19: Particular requirements for electrically operated oil valves, including mechanical requirements

1 Scope and normative references

This clause of part 1 is not applicable.

Replacement:

1.1 This part 2 of IEC 60730 applies to electrically operated oil valves for use in, on or in association with equipment for household and similar use that use electricity, in combination with fuel in the liquid state such as distillates, residual fuels, etc.

This part 2 also applies to electrically operated oil valves using NTC or PTC thermistors, requirements for which are contained in annex J.

1.1.1 This standard applies to the inherent safety, to the operating values, operating times, and operating sequences where such are associated with equipment safety, and to the testing of electrically operated oil valves used in, or in association with, household or similar equipment, but also extended to industrial purposes where no dedicated product standard exists, such as that for central heating, air conditioning, process heating, etc.

This part 2 is also applicable to controls for appliances within the scope of IEC 60335-1.

Throughout this part 2 the word "equipment" means "appliance and equipment".

This part 2 does not apply to electrically operated oil valves designed exclusively for industrial applications.

Electrically operated oil valves for equipment not intended for normal household use, but which nevertheless may be used by the public, such as equipment intended to be used by laymen in shops, in light industry and on farms, are within the scope of this part 2.

This part 2 identifies a number of mechanical features as "under consideration". Until these mechanical requirements are incorporated in this part 2, each country using this part 2 will have to quantify these requirements.

Compliance of an electrically operated oil valve with this part 2 does not imply that the valve is acceptable without further tests for these mechanical features.

1.1.2 This part 2 applies to manual controls when such are electrically and/or mechanically integral with electrically operated oil valves.

Requirements for manual switches not forming part of an electrically operated oil valve are contained in IEC 61058-1.

This part 2 does not apply to electrically operated oil valves of nominal connection size above DN 150.

Hereinafter, the term "valve" is used to denote an electrically operated oil valve (including prime mover and valve body).