



UL 60730-2-8

STANDARD FOR SAFETY

Automatic Electrical Controls for Household and Similar Use; Part 2: Particular Requirements for Electrically Operated Water Valves, Including Mechanical Requirements

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UL Standard for Safety for Automatic Electrical Controls for Household and Similar Use; Part 2: Particular Requirements for Electrically Operated Water Valves, Including Mechanical Requirements, UL 60730-2-8

Second Edition, Dated February 28, 2007

Summary of Topics

These revisions to ANSI/UL 60730-2-8 are based on the second amendment to edition No. 2 of IEC 60730-2-8.

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated February 3, 2017.

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UL 60730-2-8

Standard for Automatic Electrical Controls for Household and Similar Use;

Part 2: Particular Requirements for Electrically Operated Water Valves,

Including Mechanical Requirements

The first edition was titled Standard for Automatic Electrical Controls for Household and Similar Use; Part 2: Particular Requirements for Electrically Operated Water Valves, Including Mechanical Requirements and numbered UL 8730-2-8.

First Edition – June, 1995

Second Edition

February 28, 2007

This ANSI/UL Standard for Safety consists of the Second Edition including revisions through May 10, 2017.

The most recent designation of ANSI/UL 60730-2-8 as an American National Standard (ANSI) occurred on May 10, 2017. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, or Preface. The National Difference Page and IEC Foreword are also excluded from the ANSI approval of IEC-based standards.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <https://csds.ul.com>.

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CONTENTS

Preface (UL)	6
NATIONAL DIFFERENCES	7
FOREWORD	8
1 Scope and normative references	11
1.5 Normative references	12
2 Definitions	12
2.2 Definitions of types of control according to purpose	13
2.3 Definitions relating to the function of controls	14
2.13 Miscellaneous definitions	16
3 General requirements	16
4 General notes on tests	16
4.1 Conditions of test	16
4.2 Samples required	16
5 Rating	16
6 Classification	16
6.5.2 According to degree of protection provided by enclosures against harmful ingress of water (see IEC 60529)	16
6.7 According to ambient temperature limits of the SWITCH HEAD:	17
6.8 According to protection against electric shock:	17
6.101 According to type of end-connections	18
6.102 According to features of electrically operated WATER VALVES	18
6.103 According to temperature, pressure and type of the water controlled	19
6.104 According to NOMINAL SIZE and thread size of END CONNECTIONS	20
7 Information	20
7.4 Additional requirements for marking	22
8 Protection against electric shock	23
9 Provision for protective earthing	23
9.5.101DV.1 Swimming pool VALVE	23
10 Terminals and TERMINATIONS	24
10.1 Terminals and TERMINATIONS for external copper conductors	24
10.2 Terminals and TERMINATIONS for INTERNAL CONDUCTORS	24
11 Constructional requirements	24
11.3 <i>Modification:</i>	24
11.101 Separation of wetted parts from electrical parts	25
11.102DV.1 Springs	25
11.103DV.1 Metal parts	25
11.104DV.1 Threaded fasteners	26
12 Moisture and dust resistance	26
13 Electric strength and insulation resistance	26
14 Heating	26
15 MANUFACTURING DEVIATION and DRIFT	28
16 Environmental stress	28
16.2 Environmental stress of temperature	28
17 Endurance	28
17.7 Over-voltage (or in some countries, overload) test of AUTOMATIC ACTION at accelerated rate	29
17.16 Test for particular purpose controls	30

18	Mechanical strength	30
18.101.1	Test at 1,5 times maximum rated working pressure (test for external leakage)	30
18.101.2	Test at 5 times maximum rated working pressure (hydrostatic strength test)	31
18.101.3	Anti-WATER HAMMER characteristics	31
18.101.4	Test on VALVE BODIES of thermoplastic material	32
18.102	Wetted material specifications	33
18.103	Torque	33
19	Threaded parts and connections	34
20	CREEPAGE DISTANCES, CLEARANCES and distances through insulation	34
21	Resistance to heat, fire and tracking	35
22	Resistance to corrosion	35
23	Electromagnetic compatibility (EMC) requirements – emission	35
24	Components	35
25	Normal OPERATION	35
26	Electromagnetic compatibility (EMC) requirements – immunity	35
27	Abnormal OPERATION	35
27.2	Burnout test	35
27.3	Overvoltage and undervoltage test	37
27.101	Dry condition test	38
27.102	Running overload	38
28	Guidance on the USE of ELECTRONIC DISCONNECTION	39

Figures

Annexes

Annex H (normative) Requirements for ELECTRONIC CONTROLS

H.6	Classification	39
H.6.18	According to software class	39
H.7	Information	39
H.26	Electromagnetic compatibility (EMC) requirements – immunity	40
H.26.5	Voltage dips and voltage interruptions in the power supply network	40
H.26.6	Not applicable	40
H.26.8	Surge immunity test	40
H.26.9	Electrical fast transient/burst immunity test	40A
H.26.11	Electrostatic discharge test	40B
H.26.12	Radio-frequency electromagnetic field immunity	40B
H.26.13	Test of influence of supply frequency variations	40C
H.26.14	Power frequency magnetic field immunity test	40D

Annex AA (informative) Relation between different flow coefficients

AA.1	K_v value	40E
AA.2	C_v value	40E

Annex BB (normative) Arrangement for the measurement of TRANSIENT PRESSURES caused by WATER VALVES

Annex CC (normative) Test on VALVE BODIES of thermoplastic material intended to be connected to the water supply mains

Annex DD (normative) Torque

DD.1 Torque test for VALVES with internally threaded end-connections to ISO 7-1	.45
DD.1.1 General	.45
DD.1.2 Torque test	.45
DD.2 Torque test for VALVES with internally threaded end-connections to ISO 228-1	.47
DD.3 Torque test for VALVES with internally threaded end-connections with ISO metric thread for compression FITTINGS	.48
DD.3.1 Olive type compression FITTINGS	.48
DD.3.2 Flared compression FITTINGS	.48
DD.4 Torque test for VALVES with externally threaded end-connections to ISO 7-1	.48
DD.5 Torque test for VALVES with external threaded end-connections to ISO 228-1 or to ISO metric thread for compression FITTINGS	.48
DD.6 Torque test for VALVES with adaptors	.48
DD.7 Torque test for VALVES with internally or externally threaded end-connections for NPT thread	.49
DD.8 Torque test for VALVES with internally or externally threaded end-connections for SAE thread	.49

Annex EE (normative) Arrangement for the measurement of TRANSIENT PRESSURES caused by WATER VALVES with a declared pressure of up to and including 1,0 MPa (10 bar)

Annex 8.DVA – Manufacturing and Production Tests (normative)

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Preface (UL)

This UL Standard 60730-2-8, Standard for Safety for Automatic Electrical Controls for Household and Similar Use; Part 2: Particular Requirements for Electrically Operated Water Valves, Including Mechanical Requirements, is to be used in conjunction with the fourth edition of UL 60730-1. Consideration may be given to future editions of UL 60730-1. The requirements for electrically operated water valves are contained in this part 2 Standard and UL 60730-1.

This edition has been issued to satisfy UL Standards policy.

Requirements of this part 2 Standard, where stated, amend the requirements of UL 60730-1.

Where a particular subclause of UL 60730-1 is not mentioned in UL 60730-2-8, the UL 60730-1 subclause applies.

The text, figures and tables of IEC Publication Automatic Electrical Controls for Household and Similar Use; Part 2: Particular Requirements for Electrically Operated Water Valves, Including Mechanical Requirements, IEC 60730-2-8 copyright 2000, its amendment 1 (2002), and its amendment 2 (2015), are used in this Standard with the consent of the IEC and the American National Standards Institute (ANSI).

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Note – 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.

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NATIONAL DIFFERENCES

GENERAL

National Differences from the text of International Electrotechnical Commission (IEC) Publication 60730-2-8, Automatic Electrical Controls for Household and Similar Use; Part 2: Particular Requirements for Electrically Operated Water Valves, Including Mechanical Requirements copyright 2000, its amendment 1 (2002), and its amendment 2 (2015), are indicated by notations (differences) and are presented in bold text.

There are five types of National Differences as noted below. The difference type is noted on the first line of the National Difference in the standard. The standard may not include all types of these National Differences.

DR – These are National Differences based on the **national regulatory requirements**.

D1 – These are National Differences which are based on **basic safety principles and requirements**, elimination of which would compromise safety for consumers and users of products.

D2 – These are national differences from IEC requirements based on existing **safety practices**. These requirements reflect national safety practices, where empirical substantiation (for the IEC or national requirement) is not available or the text has not been included in the IEC standard.

DC – These are National Differences based on the **component standards** and will not be deleted until a particular component standard is harmonized with the IEC component standard.

DE – These are National Differences based on **editorial comments or corrections**.

Each national difference contains a description of what the national difference entails. Typically one of the following words is used to explain how the text of the national difference is to be applied to the base IEC text:

Addition / Add - An addition entails adding a complete new numbered clause, subclause, table, figure, or annex. Addition is not meant to include adding select words to the base IEC text.

Modification / Modify - A modification is an altering of the existing base IEC text such as the addition, replacement or deletion of certain words or the replacement of an entire clause, subclause, table, figure, or annex of the base IEC text.

Deletion / Delete - A deletion entails complete deletion of an entire numbered clause, subclause, table, figure, or annex without any replacement text.

INTERNATIONAL ELECTROTECHNICAL COMMISSION

AUTOMATIC ELECTRICAL CONTROLS FOR HOUSEHOLD AND SIMILAR USE – Part 2-8: Particular requirements for electrically operated water valves, including mechanical requirements

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
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DISCLAIMER

This Consolidated version is not an official IEC Standard and has been prepared for user convenience. Only the current versions of the standard and its amendment(s) are to be considered the official documents.

This Consolidated version of IEC 60730-2-8 bears the edition number 2.2. It consists of the second edition (2000-02) [documents 72/428/FDIS and 72/439/RVD], its amendment 1 (2002-11) [documents 72/553/FDIS and 72/557/RVD] and its amendment 2 (2015-11) [documents 72/1011A/FDIS and 72/1025/RVD]. The technical content is identical to the base edition and its amendments.

This Final version does not show where the technical content is modified by amendments 1 and 2. A separate Redline version with all changes highlighted is available in this publication.

International Standard IEC 60730-2-8 has been prepared by IEC technical committee 72: Automatic controls for household use.

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

This part 2-8 is intended to be used in conjunction with IEC 60730-1. It was established on the basis of the fourth edition (2010) of that publication. Consideration may be given to future editions of, or amendments to, IEC 60730-1.

This part 2-8 supplements or modifies the corresponding clauses in IEC 60730-1 so as to convert that publication into the IEC standard: *Safety requirements for electrically operated water valves, including mechanical requirements.*

Where this part 2-8 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 2-8 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 practices are contained in the following elements:

- Table 1, items 113 and 114
- 14.7.4, note 101
- 16.2.1
- 27.2.3.1
- annex CC
- table DD.1.2.1, note 1
- table DD.6, note 1

In this publication:

- 1) The following print types are used:
 - Requirements proper: in roman type.
 - *Test specifications: in italic type.*