UL 429

STANDARD FOR SAFETY

Electrically Operated Valves

UL Standard for Safety for Electrically Operated Valves, UL 429

Seventh Edition, Dated November 6, 2013

Summary of Topics

This revision of UL 429 dated January 16, 2020 includes Table 6.3 and Table 21.2 which revise material requirements within the Temperature Test Clause 26.1.

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 revised requirements are substantially in accordance with Proposal (s) on this subject dated September 20, 2019.

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UL 429

Standard for Electrically Operated Valves

First Edition – January, 1955
Second Edition – May, 1973
Third Edition – March, 1982
Fourth Edition – August, 1994
Fifth Edition – March, 1999
Sixth Edition – November, 2009

Seventh Edition

November 6, 2013

This UL Standard for Safety consists of the Seventh edition including revisions through January 16, 2020.

The Department of Defense (DoD) has adopted UL 429 on August 10, 1989. The publication of revised pages or a new edition of this Standard will not invalidate the DoD adoption.

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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INTRODUCTION

1 Scope

1.1 These requirements cover electrically operated general purpose and safety valves rated 600 volts or less and intended for the control of fluids, such as air, gases, oils, refrigerants, steam, water, and the like. Electrically operated valves, other than automotive fuel valves, covered by these requirements are intended to be used in other than hazardous locations as defined by the National Electrical Code, NFPA 70.

1.2 These requirements also cover electrically operated valves intended to be factory installed on or in certain appliances as operating or safety controls.

1.3 These requirements do not cover automatic valves for gas appliances that are covered by the requirements in the Standard for Automatic Valves for Gas Appliances, ANSI Z21.21/CSA 6.5.

1.4 These requirements do not cover valves employing electrical parts, including coils, switch contacts and resistance elements, located in the flammable gas containing compartment of a valve. Valves constructed as such shall comply with the requirements in the Standard for Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations, UL 913.

1.5 When the valve assembly includes a pressure or flow regulator, its regulating ability is not covered by requirements in this standard.

1.6 When a mechanically actuated indicator is provided to indicate whether the valve is open or closed, its visibility from any distance is not covered by requirements in this standard.

1.7 In addition to the requirements in this standard, valves intended for fire protection service are required to comply with the Outline of Investigation for Electrically Operated Valves for Fire Protection Service, SU 429A.

2 General

2.1 Components

2.1.1 Except as indicated in 2.1.2, a component of a valve covered by this standard shall comply with the requirements for that component. See Appendix A for a list of standards covering components used in the valves covered by this standard.

2.1.2 A component is not required to comply with a specific requirement that:

a) Involves a feature or characteristic not required in the application of the component in the product covered by this standard, or

b) Is superseded by a requirement in this standard.

2.1.3 A component shall be used in accordance with its rating established for the intended conditions of use.

2.1.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.