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Industrial valves - Actuators - Part 4: Hydraulic part-turn actuators for industrial valves - Basic requirements

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

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ICS 23.060.20

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EUROPEAN STANDARD

**EN 15714-4**

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2025

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Supersedes EN 15714-4:2009

English Version

## Industrial valves - Actuators - Part 4: Hydraulic part-turn actuators for industrial valves - Basic requirements

Robinetterie industrielle - Actionneurs - Partie 4 :  
Actionneurs hydrauliques à fraction de tour pour  
robinetterie industrielle - Prescriptions de base

Industriearmaturen - Antriebe - Teil 4: Hydraulische  
Schwenkantriebe für Industriearmaturen -  
Grundanforderungen

This European Standard was approved by CEN on 7 April 2025.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (EN 15714-4:2025) has been prepared by Technical Committee CEN/TC 69 “Industrial valves”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2025, and conflicting national standards shall be withdrawn at the latest by November 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 15714-4:2009.

The main changes compared to EN 15714-4:2009 are:

- new endurance values with wider range were introduced;
- the structure was renewed according to the latest edition of other EN 15714 parts;
- minor changes on marking and testing were made.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

## 1 Scope

This document specifies basic requirements for hydraulic part-turn valve actuators, both double acting and single acting, used for on-off and modulating control duties.

It includes guidelines, recommendations and methods for enclosure and corrosion protection, control and testing.

It does not apply to hydraulic actuators which are integral parts of control valves and to hydraulic actuators designed for permanent immersion in fresh or sea water as well as electro-hydraulic actuators.

Other requirements, or conditions of use, different from those indicated in this document can vary upon request.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 5211, *Industrial valves — Part-turn actuator attachments (ISO 5211)*

EN 12570, *Industrial valves — Method for sizing the operating element*

EN 15714-1, *Industrial valves — Actuators — Part 1: Terminology and definitions*

EN 60529, *Degrees of protection provided by enclosures (IP Code) (IEC 60529)*

ISO 4401, *Hydraulic fluid power — Four-port directional control valves — Mounting surfaces*

ISO 4406, *Hydraulic fluid power — Fluids — Method for coding the level of contamination by solid particles*

## 3 Terms and definition

For the purposes of this document, the terms and definitions given in EN 15714-1 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

### 3.1

#### **part-turn actuator**

actuator which transmits torque to the valve for less than one revolution and which does not have the capability of withstanding axial thrust

Note 1 to entry: Part-turn actuators are classified by action and duty.