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

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## NATIONAL FOREWORD

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| Käesolev Eesti standard EVS-EN 15714-4:2009 sisaldab Euroopa standardi FEN 15714-4:2009 ingliskeelset teksti. | This Estonian standard EVS-EN 15714-4:2009 consists of the English text of the European standard FEN 15714-4:2009. |
| Standard on kinnitatud Eesti Standardikeskuse 31.12.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas. | This standard is ratified with the order of Estonian Centre for Standardisation dated 31.12.2009 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation. |
| Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 21.10.2009. | Date of Availability of the European standard text 21.10.2009. |
| Standard on kättesaadav Eesti standardiorganisatsioonist. | The standard is available from Estonian standardisation organisation. |



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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

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## Foreword

This document (EN 15714-4:2009) 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of an identical text or by endorsement, at the latest by April 2010, and conflicting national standards shall be withdrawn at the latest by April 2010.

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

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# 1 Scope

This document provides 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 that are integral parts of control valves or to electro-hydraulic actuators.

Other requirements or conditions of use different from those indicated in this document should be subject to negotiations between the purchaser and the manufacturer/supplier prior to order.

The terms and definitions applicable to this European Standard are given in EN 15714-1.

# 2 Normative references

The following referenced documents are indispensable for the application 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 12570, *Industrial valves — Method for sizing the operating element*

EN 60529, *Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989)*

EN ISO 228-1, *Pipe threads where pressure-tight joints are not made on the threads — Part 1: Dimensions, tolerances and designation (ISO 228-1:2000)*

EN ISO 5211, *Industrial valves — Part-turn valve actuator attachments (ISO 5211:2001)*

EN ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests (ISO 9227:2006)*

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

ISO 5599-2, *Pneumatic fluid power — Five-port directional control valves — Part 2: Mounting interface surfaces with optional electrical connector*

ASME B1.20.1:1983, *Pipe Threads, General Purpose (Inch)*

# 3 Classification and designation

## 3.1 General

Hydraulic part-turn actuators are designated by function, action and interface as detailed below.