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# Industrial valves - Actuators - Part 3: Pneumatic part-turn actuators for industrial valves - Basic requirements

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NORME EUROPÉENNE

EUROPÄISCHE NORM

# EN 15714-3

October 2009

ICS 23.060.20

English Version

# Industrial valves - Actuators - Part 3: Pneumatic part-turn actuators for industrial valves - Basic requirements

Robinetterie industrielle - Actionneurs - Partie 3: Actionneurs pneumatiques à fraction de tour pour robinetterie industrielle - Prescriptions de base

Industriearmaturen - Antriebe - Teil 3: Pneumatische Schwenkantriebe für Industriearmaturen - Grundanforderungen

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# Foreword

This document (EN 15714-3:2009) 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of an identical text or by endorsement, at the latest by April 2010, and conflicting national standards shall be withdrawn at the latest by April 2010.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 pneumatic 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 pneumatic actuators which are integral parts of control valves.

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 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/Designation

## 3.1 General

Part-turn valve actuators are classified by action and interface as detailed below.

## 3.2 Action

a) Double Acting (DA)

b) Single Acting (SA) with spring action to move clock-wise (CW) or counter clock-wise (CCW), as per 4.5.4

## 3.3 Actuator attachment

As per EN ISO 5211.

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