

SLOVENSKI STANDARD SIST EN 28659:1997

01-februar-1997

Plastomerni ventili - Trajna nihajna trdnost - Preskusna metoda (ISO 8659:1989)

Thermoplastics valves - Fatigue strength - Test method (ISO 8659:1989)

Armaturen aus Thermoplasten - Ermüdungsfestigkeit - Prüfverfahren (ISO 8659:1989)

Robinets en matériaux thermoplastiques Résistance a la fatigue Méthode d'essai (ISO 8659:1989)

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Ta slovenski standard je istoveten z: EN 28659:1990

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f8ce04118528/sist-en-28659-1997

ICS:

83.140.30 Cevi, fitingi in ventili iz Plastics pipes, fittings and

polimernih materialov valves

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English version

Thermoplastic valves - Fatigue strength - Test method (ISO 8659:1989)

Robinets en matériaux thermoplastiques - Résistance à la fatigue - Méthode d'essai (ISO 8659:1989)

Armaturen aus Thermoplasten -Ermüdungsfestigkeit - Prüfverfahren (ISO 8659:1989)

This European Standard was accepted by CEN on 1990-11-08 and $\,$ is identical to the ISO standard as referred to.

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Central Secretariat or to any CEN member.

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European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

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FOREWORD

Based on the positive result of the Formal Vote procedure, the International Standard

ISO 8659:1989 "Thermoplastics valves - Fatique strength - Test method"

is adopted as a European Standard.

In accordance with the Common CEN/CENELEC Rules, the following countries are bound to implement this standard:

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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The text of the International Standard ISO 8659, edition 1989 was approved by CEN as a European Standard without any modification.

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INTERNATIONAL STANDARD

ISO 8659

First edition 1989-07-01

Thermoplastics valves — Fatigue strength — Test method

iTeh Skobinets en matériaux thermoplastiques Résistance à la fatigue — Méthode (standards.iteh.ai)

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Reference number ISO 8659: 1989 (E)

ISO 8659: 1989 (E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

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International Standard ISO 8659 was prepared by Technical Committee ISO/TC 138, Plastics pipes, fittings and valves for the transport of fluids.

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ISO 8659: 1989 (E)

Introduction

The aim of this International Standard is to establish certain basic requirements for the endurance testing of plastics valves to ensure that uniform test methods are adopted. This International Standard must be considered in conjunction with any specific requirements in particular product standards applicable to the individual types of valves.

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ISO 8659: 1989 (E)

Thermoplastics valves — Fatigue strength — Test method

Scope

iTeh STANDARD3 PDefinitions: W

This International Standard specifies the endurance test. For the purposes definitions apply. valves to withstand prolonged use, with repeated opening and closure. It does not specify the ability of valves to withstand 8659 adverse conditions, in particular those of chemically agressive ards/si-of pressure used for reference purposes, which is related to fluid media and/or environments, or excessive fluid velocities

This International Standard includes values of the parameters necessary for the proper performance of the endurance test, with the reservation that parameters may be different in particular product standards (see 5.1).

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 161-1: 1978, Thermoplastics pipes for the transport of fluids - Nominal outside diameters and nominal pressures -Part 1: Metric series.

ISO 6708: 1980, Pipe components — Definition of nominal size.

ISO 7005-2: 1988, Metallic flanges — Part 2: Cast iron flanges.

ISO 7005-3: 1988, Metallic flanges — Part 3: Copper alloy and composite flanges.

- For the purposes of this International Standard, the following
 - 3.17 nominal pressure (PN): An alphanumerical designation the mechanical strength of the valve. Usually it corresponds to the pressure of water at 20 °C, in bars, for which the valve is designed (see also ISO 161-1).
 - 3.2 closing torque: Torque required to close a valve to full tightness at the nominal pressure.
 - 3.3 fluid velocity: The velocity of a fluid in a pipe connected to a valve of nominal size equivalent to the nominal diameter of the pipe.
 - 3.4 reference dimensions: The following are considered to be the reference dimensions:
 - nominal size DN (see ISO 6708) for flanged systems (see ISO 7005-2 and ISO 7005-3);
 - nominal outside diameter D for tubes (see ISO 161-1).

Apparatus

Test apparatus, capable of testing the whole valve assembly with its obturator mechanism. Furthermore, it shall include appropriate devices to perform each step separately, or continuously and automatically.

The test apparatus shall include appropriate means to discontinue the test cycle during the pressure period and to maintain the pressure in the closed position.