BS EN 16767:2020

BSI Standards Publication

# Industrial valves — Metallic check valves

# National foreword

This British Standard is the UK implementation of EN 16767:2020. It supersedes BS EN 16767:2016, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PSE/18/2, Gate, globe, diaphragm and check valves.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.


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EUROPEAN STANDARD

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# EN 16767

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English Version

# Industrial valves - Metallic check valves

Robinetterie industrielle - Clapets de non-retour métalliques

Industriearmaturen - Metallische Rückflussverhinderer

This European Standard was approved by CEN on 17 February 2020.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## European foreword

This document (EN 16767:2020) 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of an identical text or by endorsement, at the latest by October 2020, and conflicting national standards shall be withdrawn at the latest by October 2020.

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 16767:2016.

This document has been prepared under a standardization request given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive.

For relationship with EU Directive, see informative Annex ZA, which is an integral part of this document.

The main changes are the following:

— inclusion of copper alloy check valves (in Clause 1 and in 4.2);

— update of the normative references;

— addition of informative Annex B giving the correspondence between DN and NPS;

— update of Annex ZA according to Directive 2014/68/EU.

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, Turkey and the United Kingdom.

# 1 Scope

This document specifies the general requirements for metallic check valves, which are forged, cast or fabricated in straight, angle or oblique pattern (see EN 736-2) with end connections flanged or wafer, butt welding, socket welding, or threaded.

This document applies to metallic check valves used for all industrial applications.

Additional requirements given in the relevant application standards may apply to check valves used for more specific applications (e.g. for the water industry, the chemical and petrochemical process industry, the gas distribution industry).

Sanitary check valves and back flow prevention anti-pollution check valves are excluded from the scope of this document.

NOTE 1 Double disc type and tilting disc type are also based on butterfly valve and are in the scope of this document.

The range of nominal sizes covered is:

— DN 8, DN 10; DN 12, DN 15; DN 20; DN 25; DN 32; DN 40; DN 50; DN 65; DN 80; DN 100; DN 125; DN 150; DN 200; DN 250; DN 300; DN 350; DN 400; DN 450; DN 500; DN 600; DN 700; DN 750; DN 800; DN 900; DN 1 000; DN 1 200.

DN 8 and DN 12 are not used for PN designated flanged end connections.

DN 8, DN 10 and DN 12 are not used for Class designated flanged end connections.

DN 750 is used for Class designated check valves only.

Socket welding end check valves and threaded end check valves are limited to the range DN 8 to DN 65.

The range of nominal diameters for capillary and compression end valves is 6 mm to 110 mm.

The range of pressure designations covered is:

a) for flanged end and wafer type end cast iron bodies:

   — PN 2,5; PN 6; PN 10; PN 16; PN 25;

   — Class 125; Class 250;

b) for flanged end, wafer type and butt welding end bodies in steel materials:

   — PN 2,5; PN 6; PN 10; PN 16; PN 25; PN 40; PN 63; PN 100; PN 160; PN 250; PN 320; PN 400;

   — Class 150; Class 300; Class 600; Class 900; Class 1 500; Class 2 500;

c) for socket welding end and threaded end bodies in steel materials:

   — PN 40; PN 63; PN 100;

   — Class 600; Class 800.

NOTE 2 Class 800 is a widely used Class designation for socket welding and threaded end check valves.