
**Petroleum and natural gas
industries — Factory bends,
fittings and flanges for pipeline
transportation systems —**

**Part 2:
Fittings**

*Industries du pétrole et du gaz naturel — Coudes d'usine, raccords et
brides pour systèmes de transport par conduites —*

Partie 2: Raccords

ISO 15590-2:2021

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*, Subcommittee SC 2, *Pipeline transportation systems*.

This second edition cancels and replaces the first edition (ISO 15590-2:2003), which has been technically revised. The main changes compared to the previous edition are as follows:

- a) changed title;
- b) updated the list of applicable international standards with the latest applicable editions;
- c) added the possibility to execute NDE following the ISO, EN and ASTM standards;
- d) updated the assembly categories in only two types (sour service and non-sour service);
- e) removed references to extruded headers (they are not accessories but special products);
- f) modified the references to the final preparation, now in line with MSS SP-75 (Figure 1) and body conical according to the ASME B16.9 criteria ([Figure 3](#));
- g) greater clarity on the sampling criteria (paragraph [9.2](#));
- h) reviewed the chemical analysis to align with the ISO 3183 requirements (additional notes concerning *Pcm*);
- i) updated applicable standards relating to HIC and SSC;
- j) modified paragraph relating to hydrotest;
- k) applicability lighter than caliber (applicable only to tees);
- l) added the range of qualifications of the “design proof test” in [Clause B.5](#).

A list of all parts in the ISO 15590 series can be found on the ISO website.