

IGS-M-PL-007(0)

Sep.2023

Approved

مصوب



شرکت ملی گاز ایران
مدیریت پژوهش و فناوری
امور تدوین استانداردها

IGS

مشخصات فنی خرید

Hot Induction Bend

Technical Specification Of Hot Induction Bend



تاریخ: ۱۴۰۲/۰۸/۱۵

شماره: بگ/۰ دب/۳۲۳-۲۱۶۳۹



شرکت ملی گاز ایران



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باسلام،

به استحضار می‌رساند در جلسه ۲۰۳۱ مورخ ۱۴۰۲/۰۷/۳۰ هیأت مدیره، نامه شماره گ/۹/۰۰۰/۲۶۹۰۲ مورخ ۱۴۰۲/۰۷/۲۲ مدیر پژوهش و فناوری درمورد تصویب نهایی مقررات فنی شرکت ملی گاز ایران به شرح زیر مطرح و مورد تصویب قرار گرفت.

۱- مشخصات فنی کارتریج فیلتر گاز خشک

IGS-M-PM-111(2)

۲- دستورالعمل تعیین دوره تنظیم و بررسی صحت کارکرد وسایل اندازه گیری (جریان، فشار و دمای گاز طبیعی)

IGS-C-IN-105(3)

۳- مشخصات فنی خرید Hot Induction Bend

IGS-M-PL-007(0)

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Foreword

This standard specification is intended to be mainly used by N.I.G.C. and contractors, and has been prepared base on interpretation of recognized standards and technical documents, as well as knowledge, backgrounds and experiences in gas industries at national and international levels.

Iranian Gas Specification (IGS) prepared, reviewed and amended by technical standard committees within NIGC standardization division of research and technology management and submitted to "the standards council of NIGC" for approval.

IGSs are subjected to revision, amendment or withdrawal, if required, and thus the latest edition of IGS shall be checked / inquired by NIGC'S users.

This standard must not be modified or altered by NIGC employees or its contractors. Any deviation or conflicts between this specification and other applicable standards, codes, procedure or well-known manufacturer's specifications must be resolved in writing by the user or its representative through Manager, Engineering Department or standardization division of NIGC.

The technical standard committee welcomes comments and feedbacks from concerned or interested corporate and individuals about this standard, and may revise this document accordingly based on the received feedbacks.

General Definitions

Throughout this standard the following definitions, where applicable, should be followed:

- 1-"STANDARDIZATION DIVISION": has been organized to deal with all aspects of industrial standards in NIGC. Therefore, all queries for clarification or amendments are requested to be directed to mentioned division.
- 2- "COMPANY": refers to national Iranian gas company.
- 3-"MANUFACTURER": refers to a firm who will supply the service, equipment or material to IGS specification whether as the prime producer or manufacturer or a trading firm.
- 4- "SHALL": is used where a provision is mandatory.
- 5- "SHOULD": is used where a provision is advised only.
- 6- "MAY": is used where a provision is completely discretionary.

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Note:

Guidance for use of this specification:

The amendments/ supplements to ASME B16.49 :2017 in this specification are directly equivalent sections or clauses to ASME B16.49 :2017. All other paragraphs which are not amended by this supplementary shall remain valid as written. The following annotations, as specified hereunder, have been used at the beginning of each paragraph to indicate the type of change made to that paragraph of ASME B16.49 :2017.

Sub. (Substitution) "The paragraph in ASME B16.49 :2017 shall be deleted and replaced by the new paragraph in this supplementary

Del. (Deletion) "The paragraph in ASME B16.49:2017 shall be deleted without any replacement".

Add. (Addition) "The new paragraph with the new number shall be added to the relevant section of ASME B16.49 :2017 ".

Mod. (Modification) "Part of the clause or paragraph in ASME B16.49 :2017 shall be modified and/or the new description and/or statement shall be added to that clause or paragraph as given in this supplementary.

1. SCOPE AND DEFINITIONS

1.1 General

(Sub.)

This Standard covers design, material, manufacturing, testing, marking, shipment and inspection requirements for factory-made pipeline bends of carbon steel materials having controlled chemical and mechanical properties, produced by the induction bending process, with or without tangents. This standard is based on ASME B16.49 :2017 and is written in the form of amendments and supplements of superscript standard, intended to be used only for non-sour service natural gas transmission pipeline (ASME B31.8) applicable up to grade X80 (L555), up to 56 inch in diameter.

(Add.)

Hot induction bends made by spiral(helical) pipes are not permitted and are excluded from the scope of this standard and all references to it shall be ignored throughout this standard.

(Add.)

This standard doesn't cover fabricated fittings, cast-welding fittings or fittings machined from castings, bare stock or forged block as well.

1.2 Manufacturing Process

(Add.)

1.2.1 Manufacturing Procedure

All bending shall be made in accordance with the Manufacturer's written procedures, which shall be qualified prior to production for each pipe size (diameter), thickness, grade and heat of material combination for the tightest bend radius required. At the enquiry stage, the manufacturer shall submit full details of the manufacturing procedure including the following data. This procedure shall be officially approved by the purchaser:

- a) supply of mother pipe by the purchaser or the manufacturer.
- b) The manufacturer plan including the bending radius and tangent length.
- c) Description of induction heating and bending equipment.
- d) Fabrication sequences.