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شرکت ملی گاز ایران
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امور تدوین استانداردها

IGS

مشخصات فنی خرید

فلنج های فولادی ، کلاس ۱۵۰ تا ۹۰۰

Carbon Steel Flanges , Class 150 up to 900



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دفتر مدیر عامل

ابلاغ مصوبه هیأت مدیره

مدیر محترم پژوهش و فناوری

باسلام،

به استحضار می‌رساند در جلسه ۱۸۰۲ مورخ ۱۳۹۷/۸/۲۰ هیأت مدیره، نامه شماره گ/۰۰۰/۱۰۲۳۵ مورخ ۱۳۹۷/۸/۱۴ آن مدیریت در مورد تصویب نهایی استاندارد به شرح زیر:

۱- مشخصات فنی خرید فلنج های فولادی کلاس ۱۵۰ تا ۹۰۰

IGS-M-PL-040(0)

۲- مشخصات فنی خرید ترانس های اندازه گیری جریان

IGS-M-EL-029(0)

۳- مشخصات فنی خرید ترانس های اندازه گیری ولتاژ

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FOREWORD

This standard is intended to be mainly used by NIGC and contractors, and has been prepared based on interpretation of recognized standards, technical documents, knowledge, backgrounds and experiences in natural gas industry at national and international levels. Iranian Gas Standards (IGS) are prepared, reviewed and amended by technical standard committees within NIGC Standardization division and submitted to the NIGC's "STANDARDS COUNCIL" for approval. IGS Standards are subject to revision, amendment or withdrawal, if required. Thus the latest edition of IGS shall be checked/inquired by NIGC employees and contractors. This standard must not be modified or altered by NIGC employees or its contractors. Any deviation from normative references and / or well-known manufacturer's specifications must be reported to Standardization division. The technical standard committee welcomes comments and feedbacks 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 DIV." is organized to deal with all aspects of industry standards in NIGC. Therefore, all enquiries for clarification or amendments are requested to be directed to mentioned division.
- 2- "COMPANY": refers to National Iranian Gas Company (NIGC).
- 3- "SUPPLIER": refers to a firm who will supply the service, equipment or material to NIGC 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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1. Scope

This specification covers minimum requirements for the manufacturing, inspection, testing, marking and shipping of the forged carbon steel flanges with rating class 150, 300, 600 and 900 in sizes NPS 1/2 through NPS 56 which used in non – sour service gas transmission pipeline and distributing piping system which generally conform to ASME B 31.8.

This specification is including of:

- Welding neck forged carbon flanges and blind carbon steel flanges in sizes NPS 1/2 through NPS 56
- Slip on forged carbon steel flanges in sizes NPS 1 1/2 through NPS 24.
- Threaded/Screw on forged carbon steel flanges in sizes 1/2 through 4.
- Socket weld forged carbon steel flanges in sizes NPS 1/2 through NPS 4

2. References

Throughout this standard specification the following standards and codes are referred to. The edition of these standards and codes those are in effect at the time of issuing of this standard specification.

The applicability of changes in standards and codes that occur after the date of standards that referred shall be mutually agreed upon by purchaser and supplier and /or manufacturer

2.1. API 5L: 2012, " Specification for Line Pipe"

2.2. ASME B.1.20.1: 2013, "Pipe Threads, General Purpose"

2.3. ASME B 16.5: 2013, "Pipe Flanges and Flanged Fittings"

2.4. ASME B 16.47: 2017, "Large Diameter steel flanges"

2.5. ASME B 16.25: 2012 , "Butt welding Ends"

2.6. ASTM B16.34:2013, "Valves- Flanged, Threaded, and Welding End"

2.7. ASME: B 31.8: 2012, "Gas transmission and distributing piping system"

2.8. ASTM: A 105: 2014, "Specification for forgings, carbon steel for piping components"

2.9. ASTM A275:2003, " Standard Test Method for Magnetic Particle Examination of Steel Forgings"