



इंडियन ऑयल कॉर्पोरेशन लिमिटेड व्यवसाय समूह(क्रायोजेनिक)

Indian Oil Corporation Limited, BG (CRYOGENICS)

विशेष विवरण/STANDARD SPECIFICATION

Specification Number :- 551

Revision Number :- 4

Date :- 12-06-2024

Title :- GENERAL SPECIFICATION FOR PIPE FITTING WELDED TYPE.

| | |
|--------------------|---|
| Item | Stainless Steel Seamless pipe Fittings |
| Grade | SA 403 WP 304/304L/316/316L (As per enquiry/PO) |
| Ref Specifications | ASME Section II Part A,ASME B16.9 (Latest edition) ASME B16.11 (Latest Edition) ASME B36.10:M2018 Clause 13.7 of NACE MR0103 if NACE is mentioned in enquiry |
| Size | As per Enquiry/PO |
| Tolerances | As per ASME B16.9 |
| Certificate | Manufacturer's certificate required for Chemical & Mechanical properties. |
| Inspection | TPIA(As specified in PO) |
| Marking | Type, Heat No., Size, on periphery of FITTINGS |
| Radius | Unless Otherwise Specified fitting should be of Long Radius Type(1.5D). |
| Pipe Union | Pipe Unions to be Forged Type, Rating of the same shall be as per Enquiry/PO (Minimum Rating 3000#) Forged stainless Pipe union shall Confirm to MSS SP-83 Latest Guidelines & ASME B16.11 Guidelines. Each union Nut shall be permanently marked as per MSS SP-25, MSS SP-83 & ASME B16.11 Guidelines. |
| Threads | NPT threads conform to ASME B1.20.1 |
| Defects | Fittings shall be free from any type of defects such as Cracks, Leaks etc.. |

Prepared By :-

Authorized By :-



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Indian Oil Corporation Limited, BG (CRYOGENICS)

विशेष विवरण/STANDARD SPECIFICATION

Specification Number :- 2020/AFT/05

Revision Number :- 1

Date :- 20-07-2024

Title :- General Specification for Threaded Pipe Fitting

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|------------------------|--|
| Item | Threaded Pipe Fittings |
| Type | Elbow, Tee ,Union , CAP , Half Coupling , Full coupling , Hex Nipple , Blind Plug etc. as specified in enquiry PO Blind plug to be Hex Type Unless Specified Otherwise. |
| MOC | SA403 WP3 04,04L,16, 16L , SA182 F3 04, 04L,16 , 16L , aluminium or as specified in enquiry PO |
| Size , Threading | As specified in enquiry PO |
| Dimension , Tolerances | As per ASME B16.11 |
| Class | As specified in Enquiry PO. |
| Defects | Fittings shall be free from any type of defects such as Cracks/leak etc.. |

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Indian Oil Corporation Limited, BG (CRYOGENICS)

विशेष विवरण/STANDARD SPECIFICATION

Specification Number :- LCNG/119

Revision Number :- 1

Date :- 18-07-2024

Title :- Specification for Pipe Fittings (3000#)

| | |
|---------------|---|
| Item | Pipe fitting as per ANSI B 16.11 |
| Grade | F304 / F316 |
| Fitting Class | 3000# |
| Type | Socket Weld / Butt weld / Threaded as mentioned in Enquiry / PO. |
| Size | As per Enquiry / PO. |
| Marking | Each fittings to be marked with minimum Alloy name , Size and Heat number. |
| Dimension | As per ASME B 16.11 |
| Threading | As Per Enquiry / PO (Threading in case of threaded fittings) |
| Elbow or U | Long Radius Unless specified otherwise. |
| Finishing | Pickled Condition. |
| Defects | Fittings shall be free from any type of defects such as Cracks/leak etc.. |
| Certificate | MTC Required. |
| Packaging | Suitable packing to prevent ingress of moisture and damage during transportation. |

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