



Oil India Limited
(A Govt. of India Enterprise)
P.O. Duliajan – 786602, Assam

Telephone No. (91-374) 2808724

Fax No: (91-374) 2800533

Email: materials@oilindia.in; erp_mm@oilindia.in

Tender No. : **SDG6561P15/07**

Bidding Type : **SINGLE STAGE TWO BID SYSTEM**

Bid Closing on : **19.08.2015 (11.00 HRS; IST)**

Bid Opening on : **19.08.2015 (14.00 HRS; IST)**

Tender Fee : **INR 4,500.00 OR USD 100.00**

Bid Security Amount : **INR 2,03,000.00 OR USD 3150.00**

Performance Guarantee : **Applicable**

OIL INDIA LIMITED invites Global Tenders for items detailed below:

Item No.	MATERIAL DESCRIPTION	QTY.	UOM
<u>10</u>	X-Mass Tree Adapter Spool 3.1/8" x 2.9/16" x 5M.X-Mas Tree adapter spool, 5000 psi WP, top connection studed flange, 2 9/16", RX 27 Ring grooved, complete with 1" x 5" studs & nuts. Bottom connection flanged,3.1/8", RX 35 Ring grooved. Conforming to API Specification 6A (Material of Adapter spool: Minimum 60 K API Cast / Forged Alloy Steel, PS level : PSL 1, Perf Rating : PR 1, Mat Class : AA, Temp Rating : U). Material of studs : Alloy Steel, ASTM A 193, GR B7 OR EN 19, Thread design 1"-8UNC-2A. Material of nuts : Alloy Steel, ASTM A 194, GR 2H OR EN 19, Thread design 1"-8UNC-2B	20	Nos.
20	X-Mas Tree adapter spool, 10000 psi WP, top connection studed flange, 2 9/16", BX 153 Ring grooved, complete with 7/8" x 4 1/2" studs & nuts.Bottom connection flanged, 3.1/16", BX 154 Ring grooved. Conforming to API Specification 6A (Material of Adapter spool: Minimum 60 K API Forged Alloy Steel, PS level : PSL 3, Perf Rating : PR 1, Mat Class : AA, Temp Rating : U). Material of studs : Alloy Steel, ASTM A 193, GR B7 OR EN 19, Thread design 7/8"-8UNC-2A. Material of nuts : Alloy Steel, ASTM A 194, GR 2H OR EN 19, Thread design 7/8"-8UNC-2B	20	Nos.

30	X-Mas Tree Cap, 2 9/16" x 5M x 2 7/8" EUE.X-Mas Tree cap, 2 9/16", 5000 psi WP, flanged bottom, RX 27 ring grooved, 2.7/8" EUE 8TPI API Round lift thread, with 4 TPI ACME threaded cap and blanking plug tapped at top ½"NPT. Conforming to API Specification 6A (Material : Minimum 60 K API Forged Alloy Steel, PS level : PSL 1, Perf Rating : PR 1, Mat Class : AA, Temp Rating : U)	20	Nos.
40	X-Mas Tree cap, 2 9/16", 10,000 psi WP, flanged bottom, BX 153 ring grooved, 2.7/8" VAM TOP lift thread, with 4 TPI ACME threaded cap and blanking plug tapped ½"NPT at top. Conforming to API Specification 6A (Material : Minimum 60 K API Forged Alloy Steel, PS level : PSL 3, Perf Rating : PR 1, Mat Class : AA, Temp Rating : U)	20	Nos.
50	X-Mas Tree Cap, 2.9/16" x 10M x 2.7/8" EUE X-Mas Tree cap, 2.9/16", 10,000 psi WP, flanged bottom, BX 153 ring grooved, 2.7/8" EUE 8TPI API Round lift thread, with 4 TPI ACME threaded cap and blanking plug tapped ½"NPT at top. Conforming to API Specification 6A (Material : Minimum 60 K API Forged Alloy Steel, PS level : PSL 3, Perf Rating : PR 1, Mat Class : AA, Temp Rating : U)	20	Nos.
60	Positive Choke assembly, 5000 psi WP, complete with Honest John Bean adapter and cap for changing bean. Inlet connection flanged, 2.1/16", RX 24 ring grooved. Outlet connection screwed, 2.1/16", 2" Line Pipe internal threaded. Conforming to API Specification 6A (Material : Minimum 60 K API Cast / Forged Alloy Steel, PS level : PSL 1, Perf Rating : PR 1, Mat Class : AA, Temp Rating : U)	70	Nos.
70	Positive Choke assembly, 10000 psi WP, complete with Honest John Bean adapter and cap for changing bean. Inlet and outlet connection flanged, 2.1/16", BX 152 ring grooved. Conforming to API Specification 6A (Material : Minimum 60 K API Forged Alloy Steel, PS level : PSL 3, Perf Rating : PR 1, Mat Class : AA, Temp Rating : U)	50	Nos.

(A) GENERAL NOTES FOR E- TENDER:

1.0 The tender will be governed by "General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders) including Amendments & Addendum to "General Terms & Conditions" for e-Procurement.

2.0 Commercial Check list is furnished vide Annexure – C. Please ensure that the check list is properly filled up and uploaded along with Technical bid.

3.0 Please note that all tender forms and supporting documents are to be submitted through OIL's e-Procurement site only except following documents which are to be submitted manually in sealed envelope super scribed with tender no. and due date to The Head Materials, Materials Department, Oil India Limited, Duliagan- 786602, Assam on or before the Bid Closing Date and Time mentioned in the Tender.

- a) Original Bid Security.
- b) Details Catalogue and any other document which have been specified to be submitted in original.

4.0 The tender is invited under SINGLE STAGE-TWO BID SYSTEM. The bidder has to submit both the "TECHNO-COMMERCIAL UNPRICED BID" and "PRICED BID" through electronic form in the OIL's e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender. The "Techno-commercial Unpriced Bid" shall contain all technical and commercial details except the prices which shall be kept blank. Details of prices as per Bid format / Commercial bid to be uploaded as attachment in the Attachment Tab "Notes and Attachments".

Any offer not complying with above submission procedure will be rejected as per Bid Rejection Criteria mentioned in the tender.

5.0 In Technical Bid opening, only Technical Rfx will be opened. Therefore, the bidder should ensure that "TECHNO-COMMERCIAL UNPRICED BID" should contain details as mentioned in the technical specifications as well as BEC/ BRC and upload the same in the Technical RFX Response-> User - > Technical Bid. **No price should be given in above Technical Rfx otherwise the offer will be rejected.** Please go through the help document in details before uploading the document and ensure uploading of technical bid in the Technical RFX Response-> User - > Technical Bid only. The "PRICE BID" must contain the price schedule and the bidder's commercial terms and conditions. Details of prices as per Bid format / Commercial bid can be uploaded as Attachment under the attachment option under "Notes & Attachments"

6.0 PRICED BIDS OF ONLY THOSE BIDDERS WILL BE OPENED WHOSE OFFERS ARE FOUND TO BE TECHNO-COMMERCIALLY ACCEPTABLE.

7.0 All the Bids must be Digitally Signed using "Class 3" digital certificate (*e-commerce application*) only as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India. The bid signed using other than "Class 3" digital certificate, will be liable for rejection.

8.0 Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the bid or submission of offers not substantially responsive to the bid in every respect will be at the bidders risk and may result in the rejection of its offer without seeking any clarifications.

9.0 The Integrity Pact is applicable against this tender. OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide Annexure XII of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL's competent signatory. The proforma has to be returned by the bidder (along with the technical bid) duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who sign the Bid. **If any bidder refuses to sign Integrity Pact or declines to submit Integrity Pact with the offer, their bid shall be rejected straightway.**

OIL's Independent External Monitors at present are as under:

1. SHRI RAGHAW SHARAN PANDEY, IAS(Retd.),
e-Mail ID : rspandey_99@yahoo.com

2. SHRI RAJIV MATHUR, IPS(Retd.),
e-Mail ID : rajivmathur23@gmail.com

(B) GENERAL NOTES FOR BIDDERS:

1.0 The Bidder shall confirm in their technical bid about compliance of all the points under technical specification and notes of the tender.

2.0 The Bidder shall submit the relevant drawing and literature along with technical bid as given below-

- a. Cross Sectional Drawing showing major dimensions.
- b. Product Catalogue.

3.0 Each item shall bear markings on name plate as follows :

- a. API Monogram
- b. OIL's purchase order no.
- c. equipment serial number
- d. Manufacturer's name
- e. rated working pressure, & nominal size
- f. material of construction, PSL,& PR.
- g. year of manufacture

In addition to above, followings shall be embossed permanently on the body of each valve :

- a. API Monogram
- b. OIL's purchase order no.
- c. equipment serial number
- d. manufacturer's name
- e. rated working pressure & nominal size

4.0 THIRD PARTY INSPECTION:

The valves will be inspected by M/s OIL approved Third Party Inspection Agency viz M/s Lloyds or M/s Bureau Veritas or RITES or M/s IRS or M/s DNV or Tuboscope Vetco only. Third Party Inspection charges to be quoted separately which will be considered for bid evaluation. Quotation received without TPI charges will be loaded with the maximum TPI charges received against this tender at the time of commercial evaluation. The scope of Third Party Inspection for API Specification 6A will be as under:-

- a. General Design,
- b. Material,
- c. Welding (if any),
- d. Quality Control,
- e. Equipment Marking,
- f. Storing, packaging & shipping,
- g. Radiography /ultrasonic test, wherever applicable,
- h. any other aspects found necessary by TPIA .

5.0 The TPI report shall be submitted along with the material supply.

6.0 PI refer drawings furnished vide **Annexure -C**

(C) SPECIAL NOTES :

1.0 The items shall be brand new, unused & of prime quality. Bidder shall warrant (in the event of an order) that the product supplied will be free from all defects & fault in material, workmanship & manufacture and shall be in full conformity with ordered specifications. This clause shall be valid for 12 months from date of receipt at site or 18 months from the date of shipment/ despatch. The defective materials, if any, rejected by us shall be replaced by the supplier at their own expense on FOR Destination basis. Bidders must confirm the same while quoting.

2.0 The items covered by this tender shall be used by Oil India Limited in the PEL/ML areas which are issued/renewed after 01/04/99 and hence Nil Customs Duty during import will be applicable. Indigenous bidder shall be eligible for Deemed Export Benefit against this purchase. Details of Deemed Export are furnished vide Addendum to MM/GLOBAL/01/2005 enclosed. However no Recommendatory letters will be issued to Indian Bidders.

3.0 To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.

4.0 Other terms and conditions of the tender shall be as per "General Terms & Conditions" for e- Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders). However, if any of the Clauses of the Bid Rejection Criteria (BRC) / Bid Evaluation Criteria (BEC) mentioned here contradict the Clauses in the "General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders) of the tender and/or elsewhere, those mentioned in this BEC / BRC shall prevail.

BID REJECTION CRITERIA (BRC)/BID EVALUATION CRITERIA (BEC)

(I) BID REJECTION CRITERIA (BRC)

(A) TECHNICAL

1.1 In addition to BRC criteria vide SECTION – 'D' of General Terms and Conditions for Global Tender (MM/ GLOBAL/E-01/2005-July 2012), the following BRC criteria will be applicable against this tender:

1.2 Bidder's Qualification

The bidder shall be an original equipment manufacturer (OEM) of the tender items or X-Mas Tree having valid API 6A license holding continuously for last 05 years from original bid closing date of this tender, copies of API 6A certificates shall be submitted along with the bid document.

OR

The bidder shall be an authorized dealer / authorized distributor of original equipment manufacturer (OEM) of the tender item or X-Mas Tree having above qualification.

A valid copy of authorization letter / dealership certificate with proper guarantee/warranty back up on the supplied products from the OEM (the principal) shall be submitted along with technical bid.

2.0 Bidder's Experience

2.1.1 In case the bidder is an API licensee X-mas tree manufacturer, the bidder shall have the credentials of supplying minimum 10 nos. or 40% of the Tender quantity (rounded off to the next integer) of X-Mas tree assembly or tender items whichever is lower, of same or higher pressure rating / PSL than the tendered item against multiple (minimum 02 nos. & maximum 05 nos.) orders in last 05 years from the original bid closing date to any reputed E & P Company. Documentary evidence of bidder's past supply experience in the form of copies of successfully executed purchase order/ contract order, invoice & bill of lading shall be submitted along with the technical bid.

2.1.2 In case the bidder is an authorized dealer/ authorized distributor of X-mas tree manufacturer who meets the qualification & experience criteria in para 1.2 & 2.1.1 above, the bidder shall have the experience of execution of minimum 1(one) order for supplying X-Mas tree assembly (manufactured by the principal) in last 03 years to any reputed E & P Company from the original bid closing date. In addition to the documentary evidence of the principal's qualification & experience criteria, authorized dealer/ distributor shall also submit documentary evidence of its past supply experience in the form of copy of purchase/ contract order, invoice & bill of lading along with the technical bid.

(B) COMMERCIAL:

Commercial Bid Rejection Criteria will be as per Section D of General Terms & Conditions of Global Tender (MM/GLOBAL/E-01/2005) with following Special Bid Rejection Criteria.

1.0 Bids are invited under **Single Stage Two Bid System**. Bidders shall quote accordingly under Single Stage Two Bid System. **Please note that no price details should be furnished in the Technical (i.e.**

Unpriced) bid. The "Unpriced Bid" shall contain all techno-commercial details except the prices, which shall be kept blank. The "Price Bid" must contain the price schedule and the bidder's commercial terms and conditions.

Bidder not complying with above submission procedure will be rejected.

- 2.0 **Bid security of US \$ 3,150.00 or Rs. 2,03,000.00** shall be furnished as a part of the TECHNICAL BID (refer Clause Nos.9.0 & 12.0 (Section A) of "General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders)). **Any bid not accompanied by a proper bid security in ORIGINAL will be rejected without any further consideration.** A bid shall be rejected straightway if Original Bid Security is not received within the stipulated date & time mentioned in the Tender and/or if the Bid Security validity is shorter than the validity indicated in Tender and/or if the Bid Security amount is lesser than the amount indicated in the Tender.
- 2.1 For exemption for submission of Bid Security, please refer Clause No. 9.8 (Section A) of "General Terms & Conditions" for e-Procurement as per Booklet No.MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders).
- 2.2 The Bank Guarantee towards Bid Security shall be valid upto **18.08.2016**.
- 3.0 Validity of the bid shall be minimum 180 days from Bid closing date. Bids with lesser validity will be straightway rejected.
- 4.0 Bidders must confirm that Goods, materials or plant(s) to be supplied shall be new of recent make and of the best quality and workmanship and shall be guaranteed for a period of 18(eighteen) months from the date of shipment/despatch or 12(twelve) months from the date of receipt at site against any defects arising from faulty materials, workmanship or design. Defective goods/materials or parts rejected by OIL shall be replaced immediately by the supplier at the supplier's expenses at no extra cost to OIL.
- 5.0 Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. The Performance Bank Guarantee must be valid for 18(eighteen) months from the date of shipment/despatch or 12(twelve) months from the date of receipt. Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected
- 6.0 Bidders are required to submit the summary of the prices in their price bids as per bid format (Summary), given below :

- i) **Price Bid Format (SUMMARY) for Foreign Bidders :**
- (A) **Total Material Value :**
- (B) **TPI Charges (if any)**
- (C) **Packing & FOB Charges :**
- (D) **Total FOB Port of Shipment value, (A + B + C) above :**
- (E) **Overseas Freight Charges upto Kolkata, India :**
- (F) **Insurance Charges :**
- (G) **Total CIF Kolkata value, (D + E + F) :**
- (H) **Total CIF Kolkata value in words :**
- (I) **Gross Weight :**
- (J) **Gross Volume :**

ii) Price Bid Format (SUMMARY) for Indigenous Bidders:

- (A) Total Material Value :**
- (B) TPI Charges (if any) :**
- (C) Packing and Forwarding Charges:**
- (D) Total Ex-works value, (A + B + C) above :**
- (E) Excise Duty (Please indicate applicable rate of Duty) :**
- (F) Sales Tax, (Please indicate applicable rate of Tax):**
- (G) Total FOR Despatching station price, (D + E + F) above:**
- (H) Road Transportation charges to Duliajan:**
- (I) Insurance Charges:**
- (J) Assam Entry Tax:**
- (K) Total FOR Duliajan value, (G + H + I + J) above**
- (L) Total FOR Duliajan value in words :**
- (M) Gross Weight :**
- (N) Gross Volume :**

NOTE:

- (i) Cost of Individual items must be quoted separately.
- (ii) The items covered under this enquiry shall be used by OIL in the PEL/ML areas issued/renewed after 01/04/99 and hence, applicable Customs Duty for import of goods shall be ZERO .Indigenous bidders must quote Deemed Export prices. Excise Duty under Deemed Export exempted. However, Recommendatory letters will not be issued to Indian Bidders.
- (iii) Banking charges in the country of the foreign bidder shall be borne by the bidder

7.0 The prices offered will have to be firm through delivery and not subject to variation on any account. A bid submitted with an adjustable price will be treated as non-responsive and rejected.

8.0 Bids received after the bid closing date and time will be rejected. Similarly, modifications to bids received after the bid closing date & time will not be considered.

9.0 Bids containing incorrect statement will be rejected.

10.0 Offers should be submitted with Integrity Pact duly signed by the authorized signatory of the bidder. If any bidder refuses to sign Integrity Pact or declined to submit Integrity Pact with the offer, their bid shall be rejected straightway.

(II) BID EVALUATION CRITERIA (BEC) :

Bids conforming to the specifications, terms and conditions stipulated in the tender and considered to be responsive after subjecting to the Bid Rejection Criteria will be considered for further evaluation as per the Bid Evaluation Criteria mentioned in Section D of "General Terms & Conditions" for e- Procurement as per Booklet No. MM/GLOBAL/E-01/2005.

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ANNEXURE-B**COMMERCIAL CHECK-LIST**

Sl. No.	PARAMETERS/REQUIREMENTS	BIDDER RESPONSE	REMARKS IF ANY
1.	Whether Original Signed quotation submitted?	YES/NO	
2.	Whether quoted as manufacturer?	YES/NO	
3.	Whether quoted as authorized dealer? [To Specify]	YES/NO	
4.	If quoted as authorized dealer,		
5.	(a) Whether submitted valid and proper authorization letter from OEM confirming that bidder is their authorized dealer for the product offered?	YES/NO	
6.	(b) Whether manufacturer's back-up Warranty/Guarantee certificate submitted?	YES/NO	
7.	Whether ORIGINAL Bid Bond (not copy of Bid Bond) enclosed with the offer? If YES, provide details	YES/NO	
	(a) Amount :		
	(b) Name of issuing Bank :		
	(c) Validity of Bid Bond :		
8.	Whether offered firm prices?	YES/NO	
9.	Whether quoted offer validity of 180 days from the date of closing of tender?	YES/NO	
10.	Whether quoted a firm delivery period?	YES/NO	
11.	Whether quoted as per NIT (without any deviations)?	YES/NO	
12.	Whether any deviation is there in the offer?	YES/NO	
13.	Whether deviation separately highlighted?	YES/NO	
14.	Whether agreed to the NIT Warranty clause?	YES/NO	
15.	Whether Price Bid submitted as per Price Schedule?	YES/NO	
16.	Whether indicated the country of origin for the items quoted?	YES/NO	
17.	Whether all the items of tender quoted?	YES/NO	
18.	Whether technical literature/catalogue/drawings enclosed?	YES/NO	
19.	For Foreign Bidders - Whether offered FOB/FCA port of dispatch including sea/air worthy packing & forwarding?	YES/NO	
20.	For Foreign Bidders – Whether port of shipment indicated? [To specify]	YES/NO	
21.	For Foreign Bidders only - Whether indicated ocean freight up to C&F Kolkata port (Excluding marine insurance)?	YES/NO	
22.	Whether Indian Agent applicable?	YES/NO	
	If YES, whether following details of Indian Agent provided?		
	(a) Name & address of the agent in India – To indicate		
	(b) Amount of agency commission – To indicate		
	(c) Whether agency commission included in quoted material value?	YES/NO	
23.	Whether weight & volume of items offered indicated?	YES/NO	
24.	Whether confirmed to submit PBG as asked for in NIT?	YES/NO	
25.	Whether agreed to submit PBG within 30 days of placement of order?	YES/NO	
26.	For Indian bidders – Whether place of dispatch indicated in the offer? [To specify]	YES/NO	
27.	For Indian bidders – Whether road transportation charges up to Duliajan quoted?	YES/NO	
28.	For Indian Bidders only - Whether offered Ex-works price including packing/forwarding charges?	YES/NO	
29.	For Indian Bidders only - Whether offered Deemed Export prices?	YES/NO	
30.	Whether quoted prices are exclusive of Excise duty?	YES/NO	
31.	For Indian bidders only – whether import content indicated in the offer?	YES/NO	
32.	For Indian Bidders only - whether all Taxes have been indicated categorically?	YES/NO	
33.	Whether all BRC/BEC clauses accepted?	YES/NO	

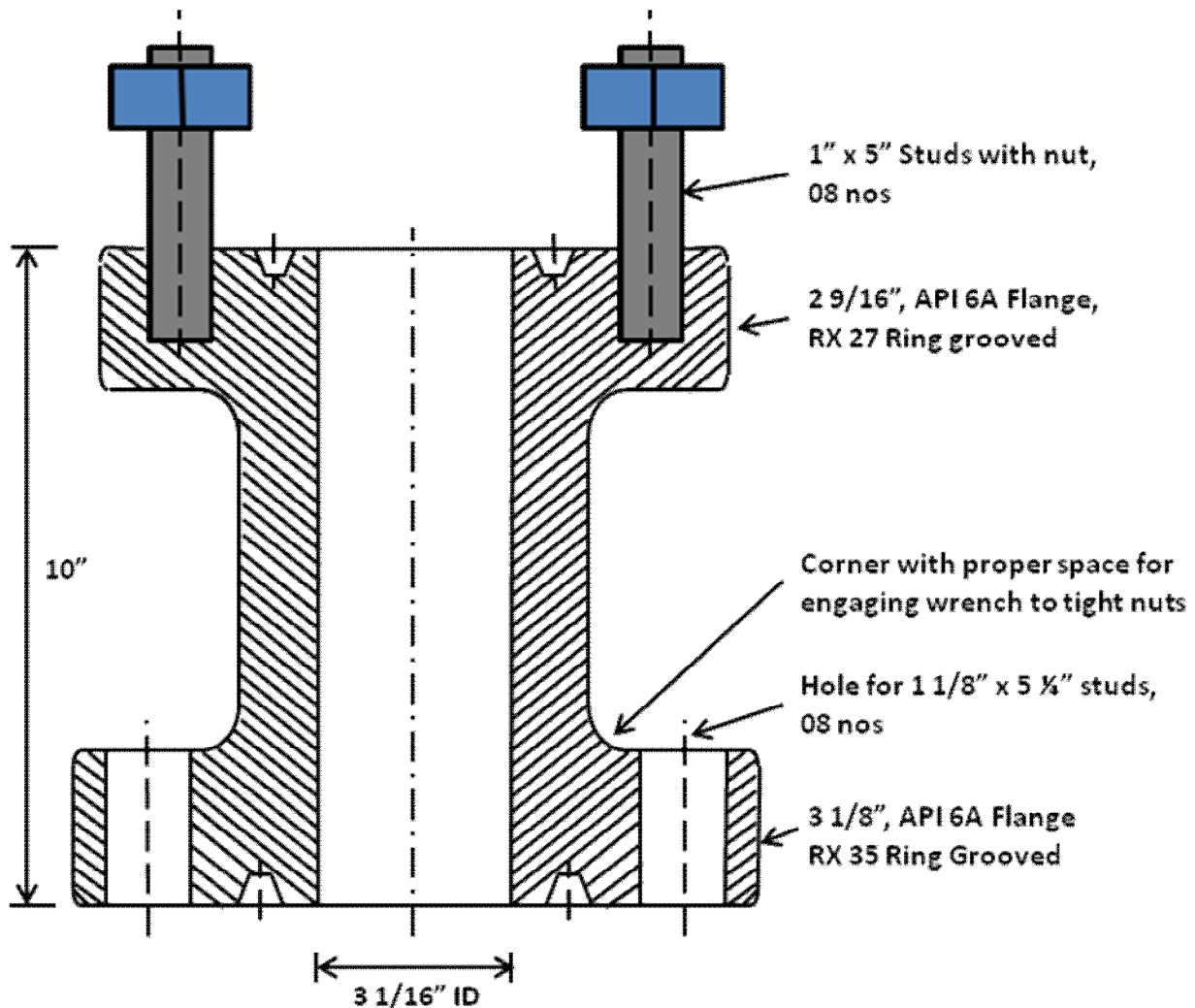
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99077551 X-MAS TREE ADAPTER SPOOL, 3 1/8"x2 9/16"x5M

SPECIFICATION	: AS PER API 6A
WORKING PRESSURE	: 5000 PSI
MATERIAL	: MINIMUM API 6K CAST/FORGED ALLOY STEEL
PRODUCT SPECIFICATION LEVEL	: PSL 1
PERFORMANCE RATING	: PR 1
MATERIAL CLASS	: AA
TEMPERATURE RTING	: U

TOP END CONNECTION	: FLANGED, STUDDED, 2 9/16" X 5M, RX 27
BOTTOM END CONNECTION	: FLANGED, 3 1/8" X 5M, RX 35

STUDS	: ALLOY STEEL, ASTM A 193, GR B7 OR EN 19, THREAD DESIGN 1"-8UNC-2A
NUTS	: ALLOY STEEL, ASTM A 194, GR 2H OR EN 19, THREAD DESIGN 1"-8UNC-2B

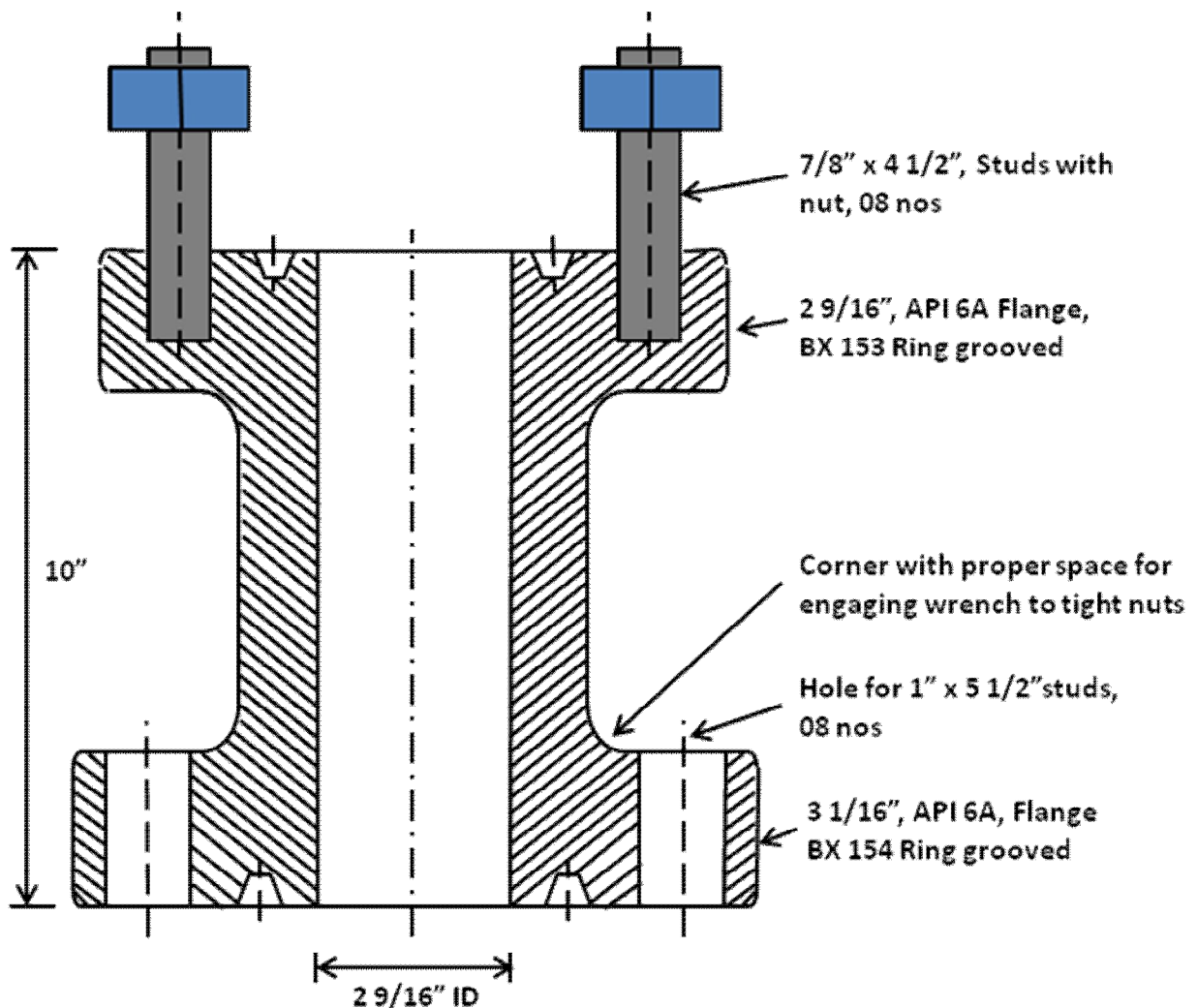


99077552 : X-MAS TREE ADAPTER SPOOL, 3 1/16" x 2 9/16" X 10M

SPECIFICATION	: AS PER API 6A
WORKING PRESSURE	: 10000 PSI
MATERIAL	: MINIMUM API 6K FORGED ALLOY STEEL
PRODUCT SPECIFICATION LEVEL	: PSL 3
PERFORMANCE RATING	: PR 1
MATERIAL CLASS	: AA
TEMPERATURE RTING	: U

TOP END CONNECTION	: FLANGED, STUDDED, 2 9/16" X 10M, BX 153
BOTTOM END CONNECTION	: FLANGED, 3 1/16" X 10M, BX 154

STUDS	: ALLOY STEEL, ASTM A 193, GR B7 OR EN 19, THREAD DESIGN 7/8"-8UNC-2A
NUTS	: ALLOY STEEL, ASTM A 194, GR 2H OR EN 19, THREAD DESIGN 7/8"-8UNC-2B

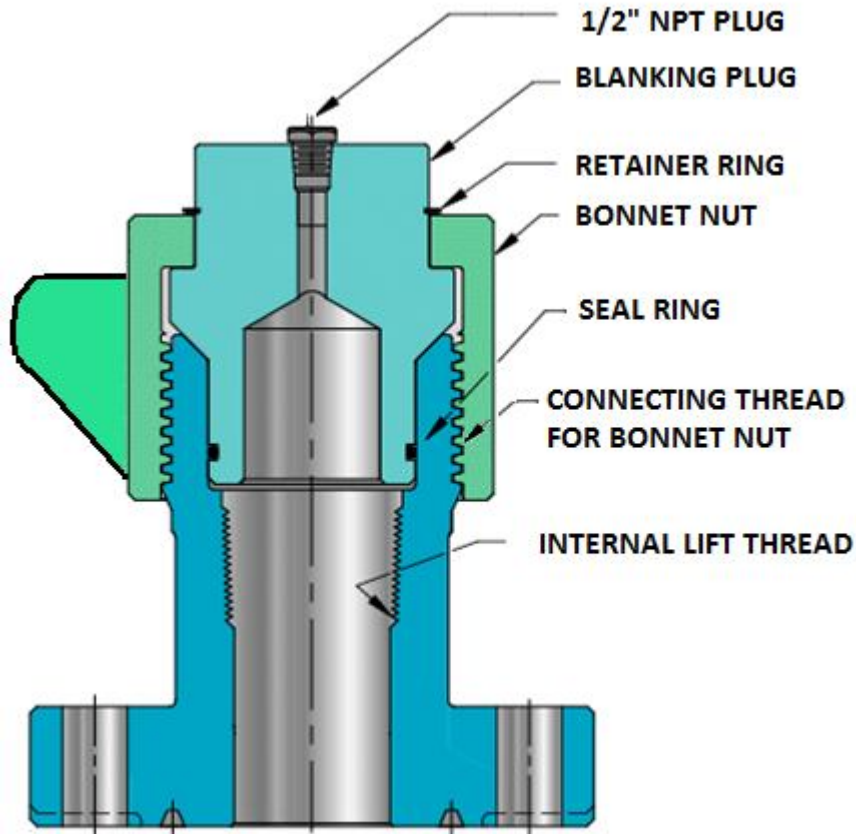


99077553 : X-MAS TREE CAP : 2 9/16" x 5M x 2 7/8" EUE

ANNEXURE C

SPECIFICATION : AS PER API 6A
WORKING PRESSURE : 5000 PSI
MATERIAL : MINIMUM API 6K CAST/FORGED ALLOY STEEL
PRODUCT SPECIFICATION LEVEL : PSL 1
PERFORMANCE RATING : PR 1
MATERIAL CLASS : AA
TEMPERATURE RTING : U

BOTTOM END CONNECTION : FLANGED, 2 9/16" X 5M, RX 27
INTERNAL THREAD FOR LIFTING : 2 7/8" EUE 8TPI API RD THREAD
CONNECTING THREAD FOR BONNET : 4 TPI ACME 2G, SINGLE LEAD

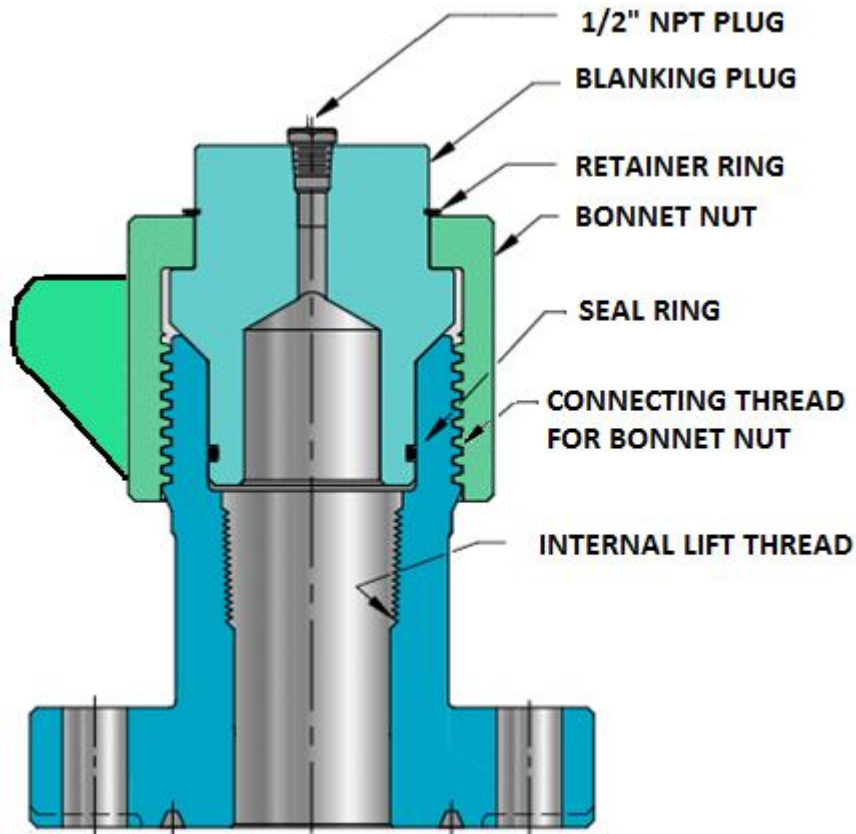


9907754 : X-MAS TREE CAP : 2 9/16" X 10M X 2 7/8" VAM

ANNEXURE C

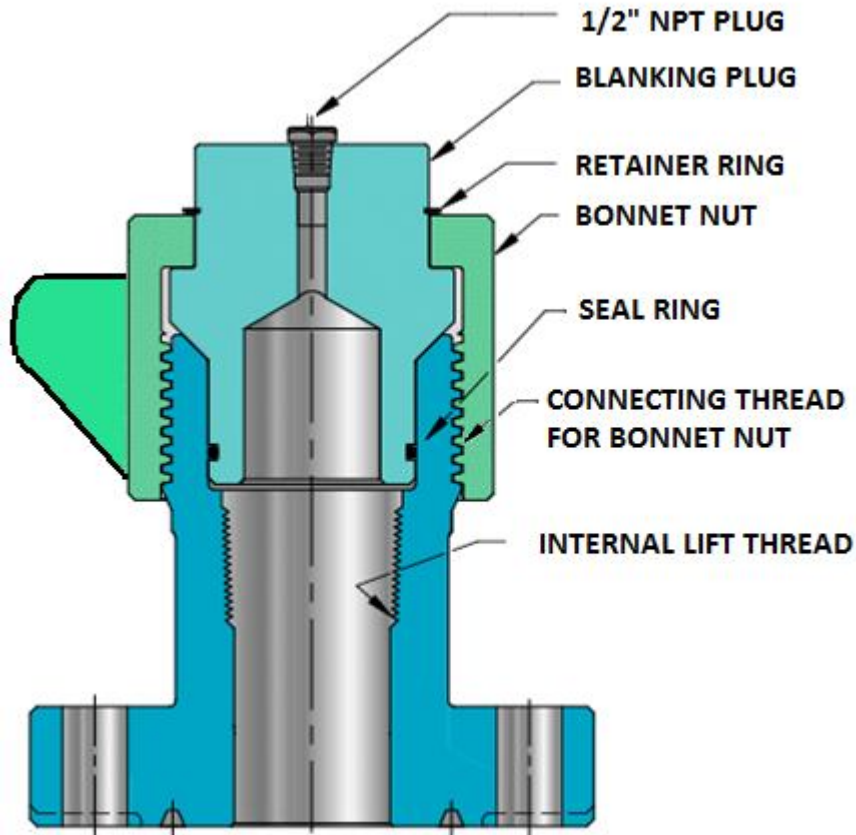
SPECIFICATION	: AS PER API 6A
WORKING PRESSURE	: 10000 PSI
MATERIAL	: MINIMUM API 6K CAST/FORGED ALLOY STEEL
PRODUCT SPECIFICATION LEVEL	: PSL 3
PERFORMANCE RATING	: PR 1
MATERIAL CLASS	: AA
TEMPERATURE RTING	: U

BOTTOM END CONNECTION	: FLANGED, 2 9/16" X 10M, BX 153
INTERNAL THREAD FOR LIFTING	: 2 7/8" VAM TOP THREAD
CONNECTING THREAD FOR BONNET	: 4 TPI ACME 2G,SINGLE LEAD



99077555 : X-MAS TREE CAP : 2 9/16" X 10M X 2 7/8" EUE

SPECIFICATION	: AS PER API 6A
WORKING PRESSURE	: 10000 PSI
MATERIAL	: MINIMUM API 6K FORGED ALLOY STEEL
PRODUCT SPECIFICATION LEVEL	: PSL 3
PERFORMANCE RATING	: PR 1
MATERIAL CLASS	: AA
TEMPERATURE RTING	: U
BOTTOM END CONNECTION	: FLANGED, 2 9/16" X 10M, BX 153
INTERNAL THREAD FOR LIFTING	: 2 7/8" EUE 8TPI API RD THREAD
CONNECTING THREAD FOR BONNET	: 4 TPI ACME 2G, SINGLE LEAD

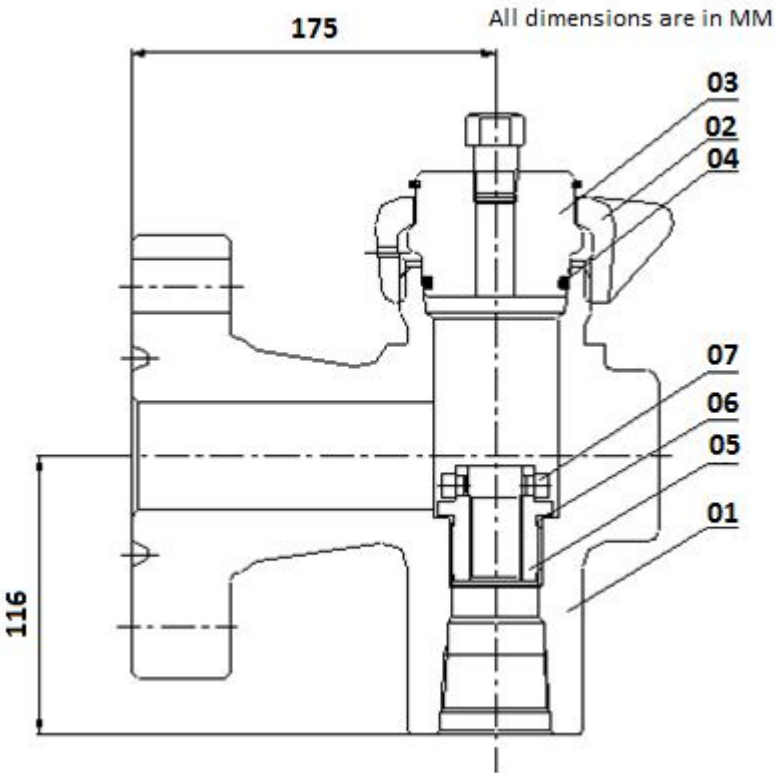


99077556 : POSITIVE CHOKE, 2 1/16” X 5M, WITH HONEST JOHN BEAN

SPECIFICATION : AS PER API 6A
WORKING PRESSURE : 5000 PSI
MATERIAL : MINIMUM API 6K CAST/FORGED ALLOY STEEL
PRODUCT SPECIFICATION LEVEL : PSL 1
PERFORMANCE RATING : PR 1
MATERIAL CLASS : AA
TEMPERATURE RTING : U

INLET CONNECTION : FLANGED, 2 1/16” X 5M, RX 24 RING GROOVED.
OUTLET CONNECTION : SCREWED, 2” LINE PIPE INTERNAL THREADED.

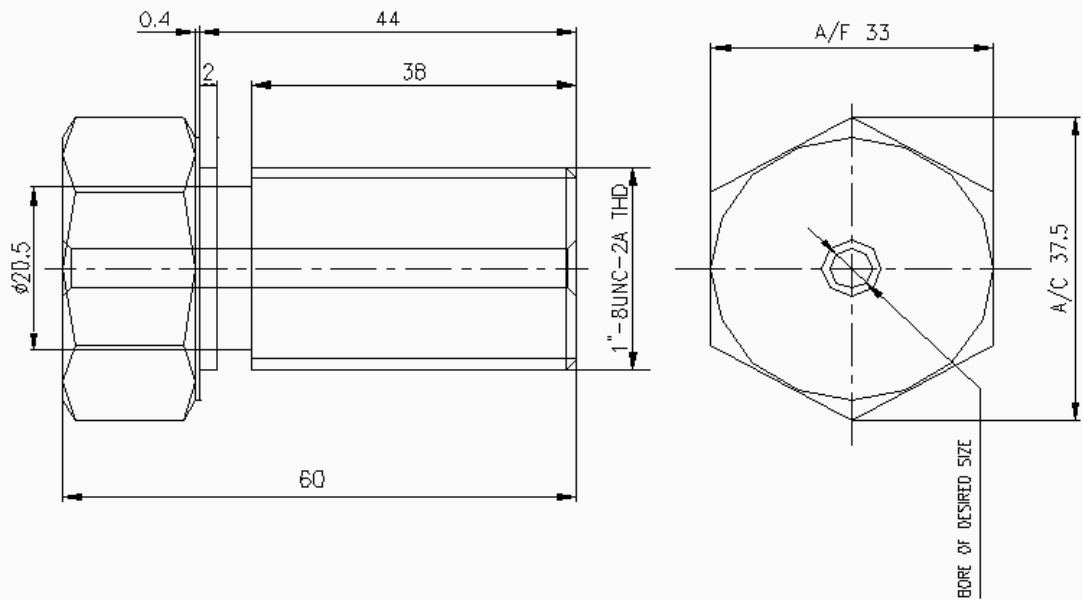
SUITABLE FOR : HONEST JOHN (HJ) TYPE BEAN
MAXIMUM ORIFICE SIZE : 1”



BILL OF MATERIAL			
ITEM No.	DESCRIPTION	MATERIAL	QTY/ ASSY
01	Choke Body	Low Alloy Steel	1
02	Union Cap	Low Alloy Steel	1
03	Blanking Plug	Carbon Steel	1
04	O - Ring	HSN	1
05	Bean Adapter	Alloy Steel	1
06	Bean Adapter Washer	Soft Iron / Carbon Steel	1
07	Bean Adapter Pin	Carbon Steel	2

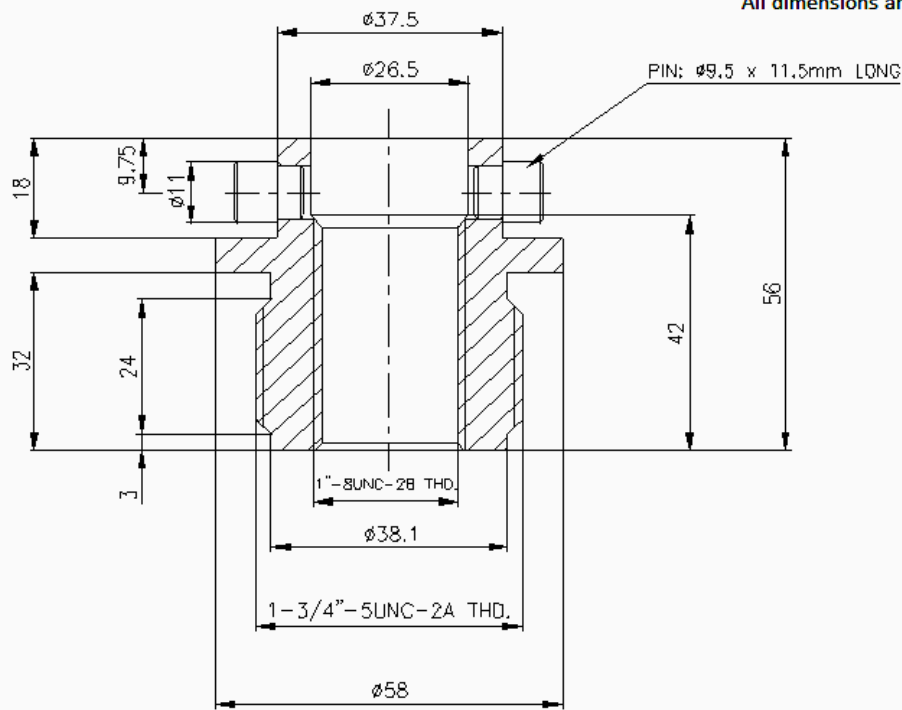
HONEST JOHN BEAN

All dimensions are in MM



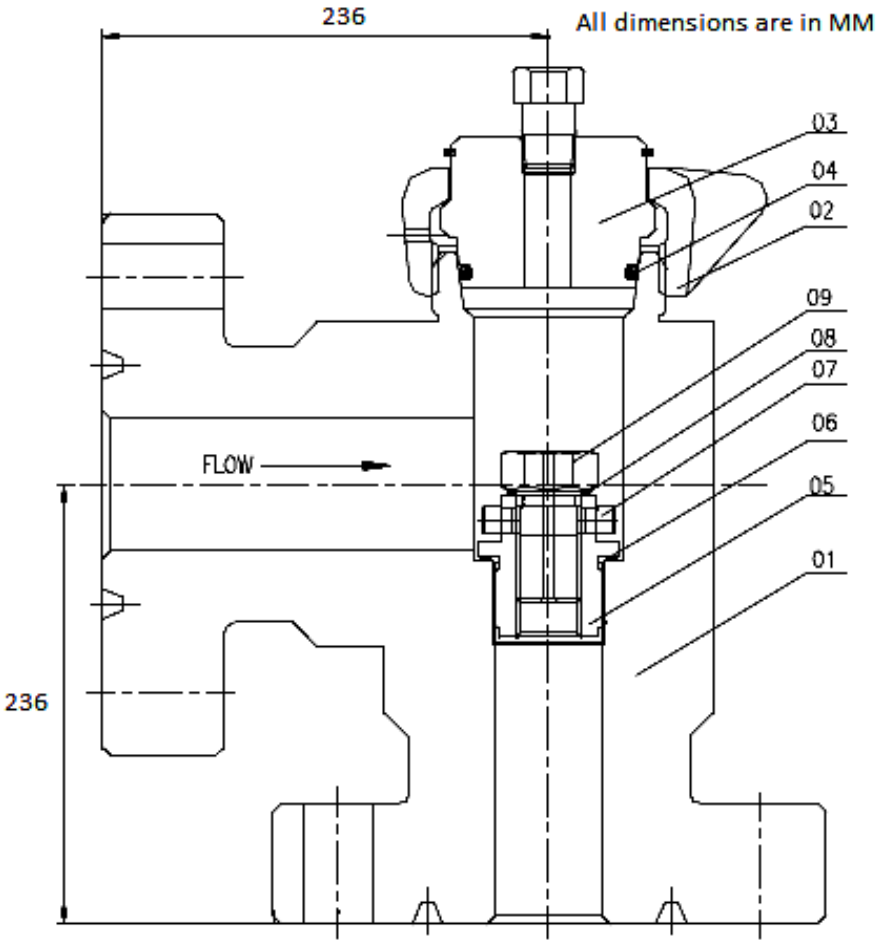
HONEST JOHN BEAN ADAPTER

All dimensions are in MM



99077557: POSITIVE CHOKE, 2 1/16” X 10M, WITH HONEST JOHN BEAN

SPECIFICATION	: AS PER API 6A
WORKING PRESSURE	: 10000 PSI
MATERIAL	: MINIMUM API 6K FORGED ALLOY STEEL
PRODUCT SPECIFICATION LEVEL	: PSL 3
PERFORMANCE RATING	: PR 1
MATERIAL CLASS	: AA
TEMPERATURE RTING	: U
INLET & OUTLET CONNECTION	: FLANGED, 2 1/16” X 10M, BX 152 RING GROOVED.
SUITABLE FOR	: HONEST JOHN (HJ) TYPE BEAN



BILL OF MATERIAL			
ITEM No.	DESCRIPTION	MATERIAL	QTY/ ASSY
01	Choke Body	Low Alloy Steel	1
02	Union Cap	Low Alloy Steel	1
03	Blanking Plug	Low Alloy Steel	1
04	O - Ring	HSN	1
05	Bean Adapter	Stainless Steel	1
06	Bean Adapter Washer	Stainless Steel	1
07	Bean Adapter Pin	Stainless Steel	2
08	Bean Washer	Stainless Steel	1
09	Bean	Stainless Steel	1

HONEST JOHN BEAN & BEAN ADAPTER FOR POSITIVE CHOKE

