



www.iter-india.org

ITER-India, Institute for Plasma Research

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: +91-79-23269656/9575 FAX : +91-79-23269591 / 9501

Email : purchase@iter-india.org

ENQUIRY - LOCAL

OFFICE COPY ENQUIRY NO : I-IEN19064
Date : 03/02/2020
Due Date : 25/02/2020 by 5:00 PM (IST)

We invite your rate/s for the following item/s. The Instructions to bidders and Terms & Conditions are attached herewith.

Important Note :

1. Enquiry No., Date & Due Date should appear on the envelope otherwise your offer will be rejected.
2. Address quotation only to the Purchase officer.
3. ITER-India, IPR is entitled to avail concessional rate of GST @ 5% (2.5% CGST and 2.5% SGST) as per Central Goods and Services Tax (CGST) Notification No. 45/2017-Central Tax (Rate) dated 14th November, 2017, State Goods and Services Tax (SGST) Notification No. 45/2017 - State Tax (Rate) dated 15th November, 2017 and IGST @5% as per Notification No. 47/2017-Integrated Tax (Rate) dated 14th November, 2017. Therefore, please consider GST in your quotation accordingly.

| Sr No. | Material Description | Quantity | Unit |
|--------|------------------------------------|----------|------|
| 1 | 6 - 1/8 inch DIRECTIONAL COUPLER | 2 | NOS |
| 2 | 6% INCH TO 3% INCH COAXIAL REDUCER | 4 | NOS |

Note :

- (1) Submit your quotation AT THE ABOVE ADDRESS.
- (2) Any clarification on this enquiry may be sought from the Purchase Officer, ITER-India
- (3) Quote with complete technical details.
- (4) Quotation should invariably be submitted in the attached format (Quotation Format) ONLY else ITER-India may not consider your offer.
- (5) Attached herewith Technical Specifications Annexure -A, Annexure I & II for Engineering drawings. (Total pages 30)
- (6) Bidders are requested to fill the Table-III in Technical specification (duly signed and stamped) and return back along with the enquiry documents.
- (7) Payment shall be made within 30 days from the date of final acceptance of ordered items of purchaser's site and on receipt of error free invoice and other necessary documents at our end.
- (8) The bidder under the category of MSME Enterprise shall attach a MSME Certificate (Udhyog Aadhar) along with the offer.
- (9) Datasheet/Catalogue of the offered items to be submitted along with the offer.
- (10) Purchaser reserves the right to split the order. i.e. order may be placed for Sr. no. 1 to technically qualified L1 bidder & for Sr. No. 2 to another technically qualified L1 bidder, if technically qualified L1 bidder is same for both the items, then the order shall not be split.

End:- as above

Rakhi Dharamdasani
OFFICER-I (PURCHASE & STORES)
ITER-India (IPR)

TERMS AND CONDITIONS

1. The quotation and any order resulting from this enquiry shall be governed by our Conditions of Order and supplier quoting against this enquiry shall be deemed to have read and understood the same in to
2. Where counter terms and conditions have been offered by the Tenderer, the same shall not be deemed to have been accepted by ITER-India unless our specific written acceptance thereof is obtained.
3. Quotation: Your quotation superscribing our enquiry No., date, due date and brief description of item should be submitted to the Purchase Officer, ITER-India in sealed envelope on or before the due date. Late/ Delayed/incomplete quotations will not be considered. Envelopes received without Enquiry number, date, due date and brief description of item may be rejected. The quoted prices should be firm for a period of 90 days from due date for placing order. ITER-India is not bound to accept lowest rate/s. Bidders shall submit the price bid/offer on Bidder's letter head with official seal and sign on each page.
4. The bid documents shall be prepared in English language only
5. All pages of the bid documents shall be numbered. Each page of the bid document shall be stamped and initialized.
6. In the event of any date indicated above is a declared Holiday, the next working day with the same time limit shall become operative for the respective purpose mentioned herein
7. In case of deviation in payment terms including demand of advance other than specified in payment schedule and accepted by ITER-India, prevailing Prime Lending Rate (PLR) of SBI will be loaded for price comparison purpose
8. ITER-India and their authorized representatives may visit the Contractor/Sub-contractors if required as part of technical evaluation process
9. ITER-India reserves the right to place order on one or more parties.
10. Specifications: Material should be offered strictly conforming to our specifications/drawings, if any. Deviation, if any, should be clearly indicated by the supplier in their quotation. The Tenderer should also indicate the Make/Type number of the materials offered and catalogues, technical literature and samples, wherever necessary should accompany the quotation. Clarification/s on specifications/drawings should be obtained from Purchase Officer before submitting quotation.
11. Terms of Prices : Quotation should be submitted on door delivery basis, duly packed & insured without extra charge wherever possible.. In the case of Indian suppliers, the material is to be delivered at our stores free of charge duly packed & insured.
12. Unit rate/s should be valid throughout the validity of Purchase Order for addition/deletion purposes. Break-up of price should be furnished. The quoted price should not be subject to price escalation for whatsoever reasons. The quoted price shall be firm, fixed and non-revisable during the validity/ extended validity of Purchase Order.
13. Prices are required to be quoted according to the units indicated in the tender form/Enquiry. When Quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.
14. Tender should be free from Correction and Erasures. Corrections, if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail. Unsigned quotations will summarily be rejected.
15. ITER-India shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the tenderers shall supply the same at the rates quoted. ITER-India also reserves the right to split the order at its sole discretion.
16. Octroi is not applicable at present.
17. Delivery Date/Period: Delivery period is essence of the Order. Supplier must indicate the firm delivery date by which the materials will be dispatched / delivered by them from the date of our order.
18. Delivery period shall be clearly indicated against each item separately.
19. Inspection: Materials on its arrival at ITER-India will be inspected by our Engineer/Stores In-Charge, and his decision in the matter will be final. However, where the items are required to be inspected at the Suppliers Premises, Supplier has to give advance notice to the Purchaser regarding readiness of the material to enable Purchase/Stores section to depute his representative for inspection.
20. Payment: Payment will be arranged for accepted materials only within 30 days from the date of acceptance of materials at ITER-India and receipt of error free bills in our accounts section, complete in all respects.
21. No correspondence will be entertained within 30 days from the date of receipt of material and bills, whichever is later.
22. Warranty: The Stores/Items offered should be guaranteed for a minimum period of twelve months from the date of acceptance, against defective materials, design, workmanship, operation or manufacture. For defects noticed and communicated during the Guarantee period, replacement/rectification should be arranged free of cost within a reasonable period of such notification. In case where our specifications call for a guarantee period more than 12 months specifically, then such a period shall apply.
23. The Contractor/Supplier shall at all times indemnify the purchaser against all claims which may be made in respect of the stores for infringement of any right protected by Patent, Registration of design or Trade Mark and shall take all risk of accidents or damage, which may cause failure of supply from whatever cause arising and the entire responsibility for sufficiency of all means used by him for the fulfillment of the Order.
24. Successful tenderer will have to furnish in the form a Bank Guarantee or in Indemnity Bond form as called for by the Purchaser towards adequate security for the materials/property provided/issued by the Purchaser as Free Issue Material for the due execution of the Order. Insurance for the Free Issue Material shall be arranged by the Supplier/Contractor at his risk and cost.
25. Non-compliance to tender specifications and/or tender scope and/or tender terms and conditions are liable for rejection. Decision of ITER-India in respect of non-compliance shall be final and binding on the bidders.
26. Canvassing in any form with regard to this tender will lead to rejection of the bid.
27. The Project Director, ITER-India reserves the right to accept or reject any quotations fully or partly or to cancel the enquiry without assigning any reasons.
28. This enquiry is not a commitment and the Purchaser reserves the right to reject or cancel any or all offers.
29. Jurisdiction: The Order shall be governed by the Laws of India for the time being in force. The Courts of Ahmedabad/Gandhinagar only shall have jurisdiction to deal with and decide any legal or dispute arising out of this Order.
30. Unsuccessful bidders will not be intimated about the results of the enquiry/tender.
31. Purchase will not be responsible for payment of any interest to the Supplier, in case of delay in releasing payment.
32. The price evaluation shall be carried out on Landed price.

FORMAT FOR SUBMISSION OF QUOTATION

Enquiry No. : I-IEN19064
Name Of Party : OFFICE COPY
Quotation No. & Date :
Due on : 25/02/2020 by 5:00 PM (IST)

| Sr No. | Material Description | Qty | Unit | Rate | Total |
|--------|------------------------------------|-----|------|-------------|-------|
| 1 | 6 - 1/8 inch DIRECTIONAL COUPLER | 2 | NOS | | |
| 2 | 6½ INCH TO 3½ INCH COAXIAL REDUCER | 4 | NOS | | |
| | | | | Grand Total | |

COMMERCIAL TERMS & CONDITIONS *

| Sr.No | Description | Bidder's Compliance |
|-------|--|--|
| 1 | Free Door delivery | |
| 2 | Packing & Forwading (To Specify, if any) | |
| 3 | Safe Delivery Charges (Please mention if not included in rate mention above) | |
| 4 | Delivery Period (4 months from the date of order) | Comply Yes/No (In case of No Please provide details) |
| 5 | Payment:ITER-India payment terms will apply (Refer Sr. No. 7 of Note) | Comply Yes/No (In case of No Please provide details) |
| 6 | Guarantee/Warranty (Refer Sr. No. 22 of Terms and Conditions) | Comply Yes/No (In case of No Please provide details) |
| 7 | Validity Period (Refer Sr.No. 3 Of Terms and Condition) | Comply Yes/No (In case of No Please provide details) |
| 8 | GST (Refer Sr.No.3 of Important Note) | Comply Yes/No (In case of No Please provide details) |
| 9 | GST (Not to be included in quoted rates) | |
| 10 | GST Registration No. (To specify) | |
| 11 | HSN Code | |
| 12 | Udhyog Aadhar No. & Category (Micro/Small/Medium Enterprise) | |
| 13 | Agreement for split of order (Refer Sr. No. 10 of Note in enquiry document) | |
| 14 | Discount (If any) | |
| 15 | Remarks | |

* Fill in the applicable details

Place:

Authorised Signatory:

Date:

Company Seal

Enq. No. I-IEN19064

Fabrication, Assembly, Testing of 6 1/8 Directional couplers and 6 1/8 to 3 1/8 reducer

Technical specifications & terms

1. Introduction

RF reducer and Directional couplers are the components of Transmission Line. Directional coupler is a mechanical component which contains coaxial cylinder/conductor, which used to measure RF power. RF reducer and directional coupler is cooled by circulating air in annular space (between inner and outer cylinder) at **3 bar** gauge pressure (approximately).

2. Scope of Work

- a) Procurement of material required for all the assemblies and submission of test certificate to ITER-India for approval.
- b) After ITER-India approval of above mentioned requirements, fabrication/manufacturing of following assemblies shall be started:

| Sr. No | Assembly Details | Quantity | Engineering Drawings |
|--------|--|----------|----------------------|
| 1 | 6-1/8 inch Directional coupler (Drawing no : II/ICH/6-1/8"DC/4-PORTS/1MHz/00) | 2 | Annexure-I |
| 2 | 6-1/8 to 3-1/8 inch Reducer (Drawing no : II/ICH/6_3" REDUCER/1MHz/00) | 4 | Annexure-II |

- c) All the fastener and heli-coil inserts required for assembly are under bidder scope and material of fastener & Heli-coil insert should be SS 304.
- d) Inspection & testing of individual components at bidder site in presence of ITER-India representative. The fabricated components shall confirm to the technical specifications, drawings and standards as per tender document.
- e) Assembly of entire system to confirm the mechanical integrity.
- f) Integration & testing of entire system at the bidder site in presence of ITER-India representative (s).
- g) Submission of pre-dispatch inspection report to ITER-India for dispatch clearance certificate.
- h) Delivery of items to ITER-India lab, IPR site with adequate packing to avoid damage during transportation.
- i) Un-packing, Assembly & Testing at ITER-India site.
- j) Preparation of final acceptance test report and submission to ITER-India for approval.
- k) Providing one year warranty from the date of final acceptance.

3. Material Procurement

The system is fabricated from the following grades of materials:

- Copper – grade ETP (99.9%Cu)
- SS 304
- Aluminum alloy 6061-T6 grade
- Forged Brass 60-40 commercial grade
- Teflon rod PTFE ASTM D1710-8,11B/ teflon plate PTFE ASTM D3294-03, 11A

It is highly recommended that to check the requirements from the attached engineering drawings.

4. Precaution during Fabrication and Assembly

- No modification in the drawing or design is permitted except in case where it is necessary to facilitate manufacturing without changing the function, accuracy and strength of the component. Provide prior justification and drawings to the ITER-India representatives for approval before implementing on it.
- All sharp edges should be avoided and rounded off.
- Surface irregularities, scratches, dents and tool marks are not allowed on the surfaces.
- Holes should be drilled with essential matching of various parts, wherever applicable.
- The inner surface of outer conductor and outer surface of inner conductor should be machined up to $\nabla\nabla\nabla$ wherever mentioned in the drawings, otherwise $\nabla\nabla$ finishes if not mentioned in the drawings.
- Necessary machining shall be done to get the required straightness, roundedness, perpendicularity and concentricity (as applicable).

5. Coating/ Plating

- Silver plating of 30 micron thickness shall be done as mentioned in attached drawings

6. Inspection & Testing

General guidelines for Inspection / Tests are written below for preparation of procedure:

I. Quality checks:

- (a) The material used in the system will be checked for its required properties to confirm on the material grade, based on the test certificate submitted by the bidder.
- (b) All the individual components shall be inspected for its dimensional accuracy, brazing/welding, assembly performance and surface finish requirements as per the drawings and specifications.
- (c) Bidder shall arrange all gauges and measurement tools for measurements and inspection at their site.

II. Factory Acceptance Tests/Pre-dispatch Inspection :

- (a) Pre-dispatch inspection and testing (including stage wise inspection) at manufacturer's / fabricator's place shall be carried out in presence of ITER-India representative (s) for material, performance, pressure, joints, check for mechanical integrity, dimensional requirements, positioning accuracy, functional requirements, assembly requirements etc.
- (b) Pneumatic test shall be performed for pressurization @ 3.6 bar for 1 hr. Any leaks, if detected by soap bubble method, shall be rectified and re-tested in the same manner.

III. Site Acceptance Test

Following site acceptance test will be carried out at ITER-India site:

1. Once all the components /sub-assemblies are delivered to ITER-India, the bidder shall assemble reducer and Directional coupler to check for position accuracy and functional requirements.
2. Pneumatic test shall be performed for pressurization @ 3.6 bar for 1 hr. Any leaks, if detected by soap bubble method, shall be rectified and re-tested in the same manner.

8. Dispatch & Packing Requirements:

All components are required to be packed with standard soft material to avoid damages to the machined surfaces. All mating surfaces of flanges must be masked with proper covers to avoid damage during handling and transportation. Packing shall be sturdy and rigid enough to withstand shocks and vibrations during transportation of the system.

Any damage to the components during transportation or due to any other cause, will not be accepted and no compensation shall be paid by ITER-India for the same. The bidder shall take due care regarding packing and forwarding of the system. It is the liability of the bidder to deliver the system in perfect working condition to ITER-India. Damaged components will be repaired/ replaced by bidder at free of cost.

9. General Terms and Conditions:

1. All the machined surfaces should be 2 -delta finish otherwise mentioned.
2. All the threads should be in metric system or otherwise as mentioned in drawings.
3. Suitable fasteners for assembly should be made of SS 304.

10. Outer & Inner Conductor Details:

1. Roundness of the tubes should be within 0.8 % of average outer diameter.
2. Eccentricity not to exceed 8% of average wall thickness.
3. Curvature should not exceed 5 mm over any 1600 mm of length.

11. Delivery Time

Delivery should be completed within three months.

12. Delivery Location:

**3rd Floor, ITER-India Lab,
Institute for Plasma Research
Near Mother Dairy, Bhat Village,
Gandhinagar-382 428, Gujarat, India**

13. Note:

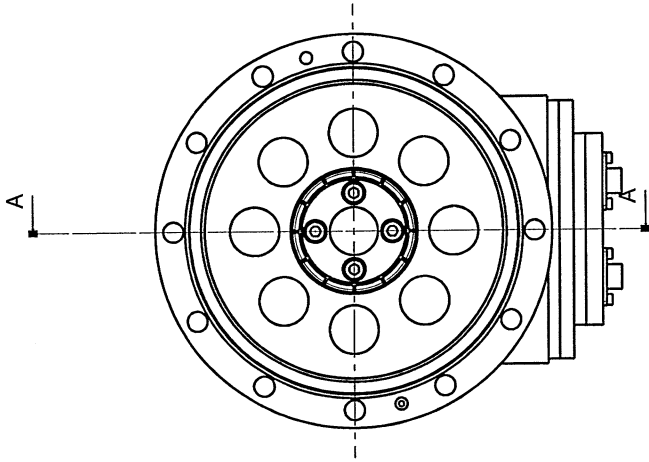
The bidder should fill the table-III and return back along with the offers

Table-III

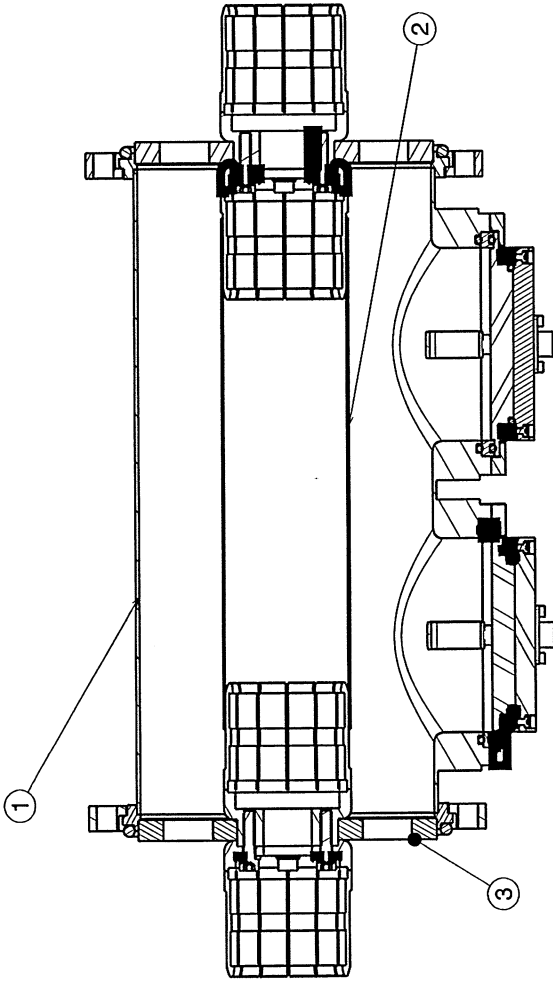
| Sr. Nos. | IPR Specifications | Bidder Specifications | Remarks |
|-----------------|---|------------------------------|----------------|
| 1 | Procurements of material required for all assemblies. | | |
| 2 | Submission of material test certificate to ITER-India for approval. | | |
| 3 | Fabrication of Directional coupler and Reducer as per Drawings attach | | |
| 4 | All the SS 304 fastener & heli-coil insert are under bidder scope | | |
| 5 | Silver plating shall be done as mentioned in drawings | | |
| 6 | Inspections and testing of individual components at venders site as per section 6 II (a) | | |
| 7 | Assembly of entire system to confirm the mechanical integrity | | |
| 8 | Integration & testing of entire system at the bidder site in presence of ITER-India representative(s) | | |
| 9 | Static pneumatic test at pressure 3.6 bar (Gauge pressure). Air leak rate is 0.001mbar l/s, check by soap bubble test method. | | |
| 10 | Submission of pre-dispatch inspection report to ITER-India for dispatch clearance certificate | | |
| 11 | Delivery of items to ITER-India site with adequate packing to avoid damage during transportation. | | |
| 12 | Un-packing, Assembly, Installation and testing at ITER-India site as per section 6 III. | | |
| 13 | Preparation of final acceptance test report and submission to ITER-India for acceptance. | | |
| 14 | Providing one year warranty from the date of final acceptance. | | |
| 15 | Delivery should be completed within three months. | | |

Annexure-I

Engineering drawings



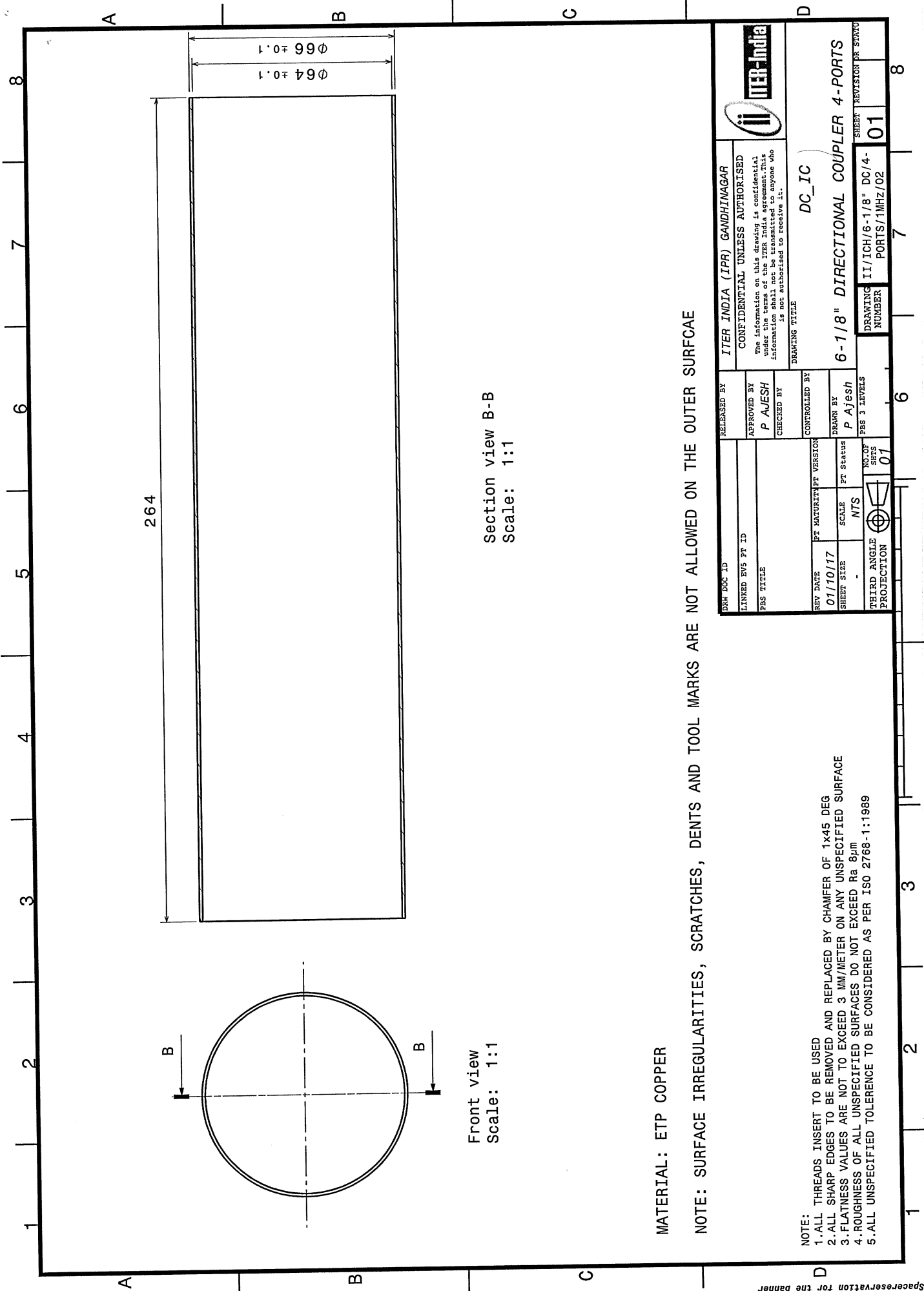
Front view
Scale: 2:5



Section view A-A
Scale: 2:5

| 3 | 6-1/8" INCH IC JOINT ASSEMBLY | II/ICH/6-1/8"DC/4-PORTS/1MHZ/03 | 1 |
|---------|-------------------------------|----------------------------------|-----|
| 2 | 6-1/8" DC_IC | II/ICH/6-1/8" DC/4-PORTS/1MHZ/02 | 1 |
| 1 | 6-1/8" DC_OC_ASSEMBLY | II/ICH/6-1/8" DC/4-PORTS/1MHZ/01 | 1 |
| PART NO | PART NAME | DESCRIPTION / MATERIAL | QTY |

| | | | |
|------------------------|--------------------------------|----------------------------------|--|
| DRW DOC ID | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR | ITER-India |
| LINKED EVS PT ID | CONFIDENTIAL UNLESS AUTHORISED | | |
| PES TITLE | APPROVED BY | P AJESH | The information on this drawing is confidential and its use is restricted to the project for which it was prepared. This information shall not be transmitted to anyone who is not authorized to receive it. |
| REV DATE | CHECKED BY | | DRAWING TITLE |
| 01/10/17 | CONTROLLED BY | | 6-1/8" DIRECTIONAL COUPLER |
| SHEET SIZE | DRAWN BY | AJAY VALA | 4-PORTS FOR 1MHZ |
| SCALE | PEB 3 LEVELS | | |
| NTS | | | |
| THIRD ANGLE PROJECTION | | | |
| NO. OF SHEETS | | | |
| 01 | | | |
| | DRAWING NUMBER | II/ICH/6-1/8" DC/4-PORTS/1MHZ/00 | SHEET REVISIONS FOR START |
| | | | 01 |



Section view B-B
Scale: 1:1

Front view
Scale: 1:1

MATERIAL: ETP COPPER

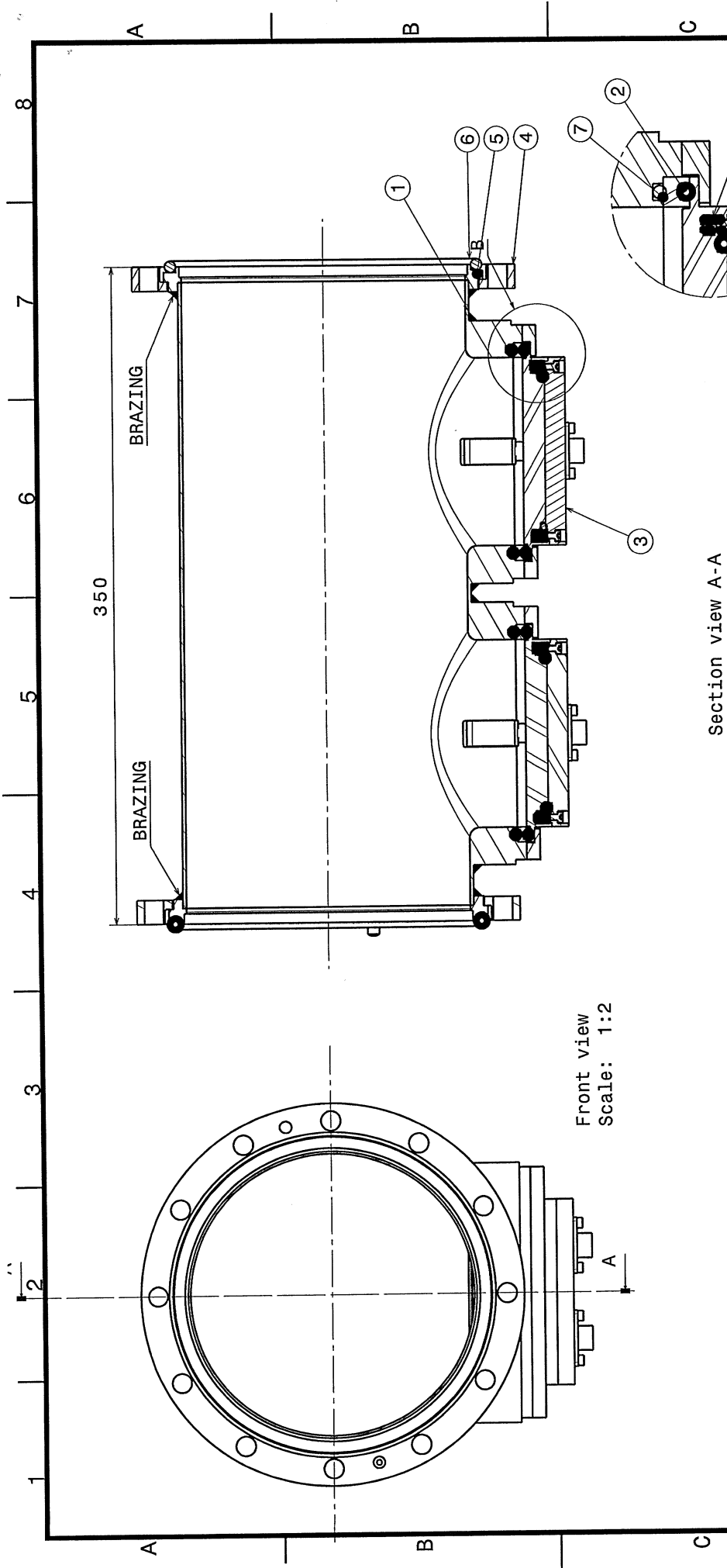
NOTE: SURFACE IRREGULARITIES, SCRATCHES, DENTS AND TOOL MARKS ARE NOT ALLOWED ON THE OUTER SURFCAE

- NOTE:
1. ALL THREADS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

| | | | | | | | |
|------------------------|--|------------------------|--|--------------------------------|--|---|--|
| DRAW DOC ID | | RELEASED BY | | ITER INDIA (IPR) GANDHINAGAR | | ITER-India | |
| LINKED BY PT ID | | APPROVED BY | | CONFIDENTIAL UNLESS AUTHORISED | | The information on this drawing is confidential and shall not be transmitted to anyone who is not authorised to receive it. | |
| SHEET TITLE | | P AJESH | | CHECKED BY | | DRAWING TITLE | |
| REV DATE | | PT MANUFACTURE VERSION | | CONTROLLED BY | | DC_IC | |
| 01/10/17 | | SCALE | | DRAWN BY | | 6-1/8" DIRECTIONAL COUPLER 4-PORTS | |
| SHEET SIZE | | NTS | | P Ajesh | | SHEET REVISION PR. START | |
| THIRD ANGLE PROJECTION | | NO. OF SHOTS | | PBS 3 LEVELS | | 01 | |
| | | | | | | PORTS/1MHZ/02 | |

Space reservation for the banner

Space reservation for the banner



Front view
Scale: 1:2

Section view A-A
Scale: 1:2

NOTE: * INSERT TO BE USED AT ALL THREADED HOLES

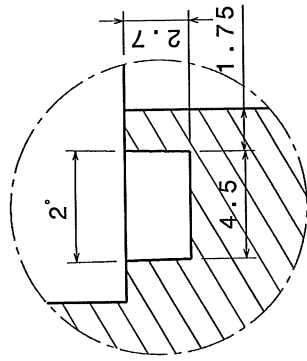
Detail B
Scale: 1:1

| PART NO | PART NAME | DESCRIPTION / MATERIAL | QTY |
|---------|--------------------------------|-----------------------------|-----|
| *10 | M3 INSERT | SS 304 | 24 |
| 9 | M3X10 ALLEN HEX BOLT | SS 304 | 24 |
| 8 | BOSS COVER | BRASS (60:40) | 2 |
| 7 | PRESSURISATION RING | BRASS (60:40) | 2 |
| 6 | O-RING FOR SWIVEL FLANGE | RUBBER SILICON | 2 |
| 5 | SWIVEL_FLANGE_PART_2 | BRASS (60:40) | 2 |
| 4 | SWIVEL_FLANGE_PART_1 | BRASS (60:40) | 2 |
| 3 | 6-1/8" DC_STRIP COVER ASSEMBLY | II/ICH/6-1/8" DC/1MHZ/01/01 | 2 |
| 2 | 6-1/8" DC_O RING | RUBBER SILICON | 4 |
| 1 | 6-1/8" DC_OC | ETP COPPER | 1 |

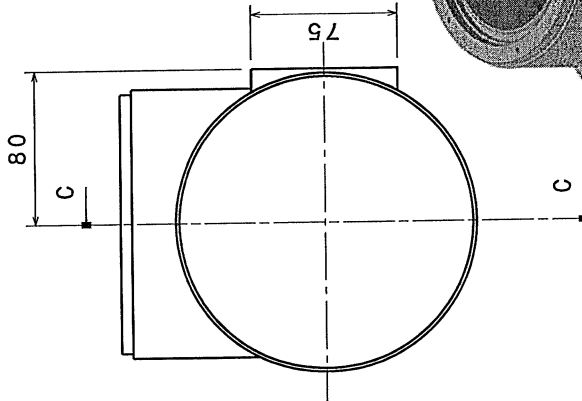
| | | |
|------------------------|---------------|---|
| DRW DOC ID | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR |
| LINKED ENVS PT ID | APPROVED BY | CONFIDENTIAL UNLESS AUTHORIZED The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be transmitted to anyone who is not authorized to receive it. |
| PBS TITLE | CHECKED BY | ITER-India |
| REV DATE | CONTROLLED BY | DRAWING TITLE |
| 01/10/17 | DRAWN BY | 6-1/8" DC_OC ASSEMBLY |
| SHEET SIZE | P. AJESH | 6-1/8" DIRECTIONAL COUPLER 4-PORTS |
| SCALE | PBS 3 LEVELS | DRAWING NUMBER |
| NTS | NO. OF SETS | 01 |
| THIRD ANGLE PROJECTION | 08 | SHEET REVISION OR SEQU |

NOTE:

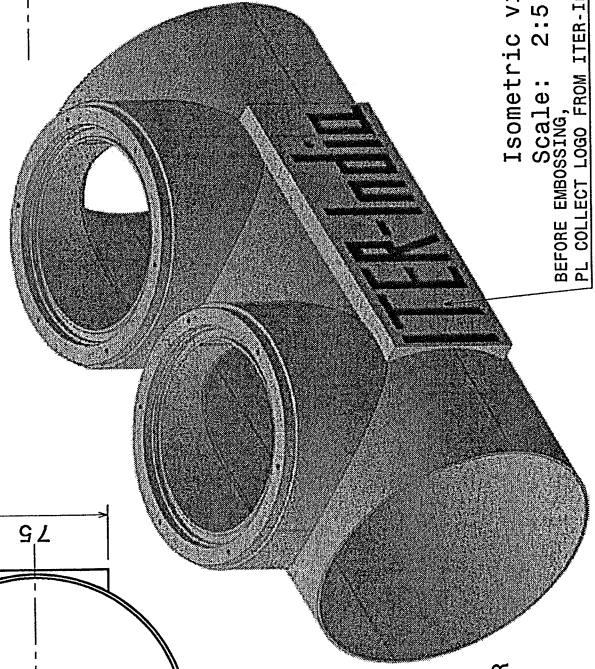
1. ALL THREADS INSERT TO BE USED
2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989



Detail H
Scale: 5:1

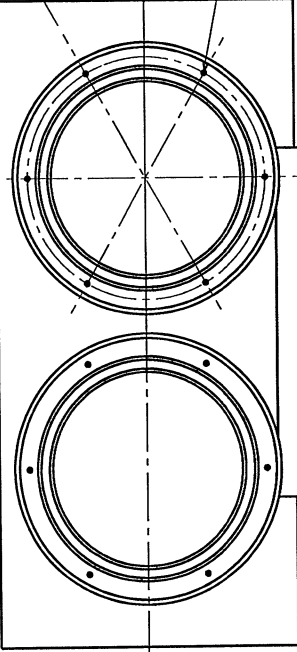


Front view
Scale: 2:5

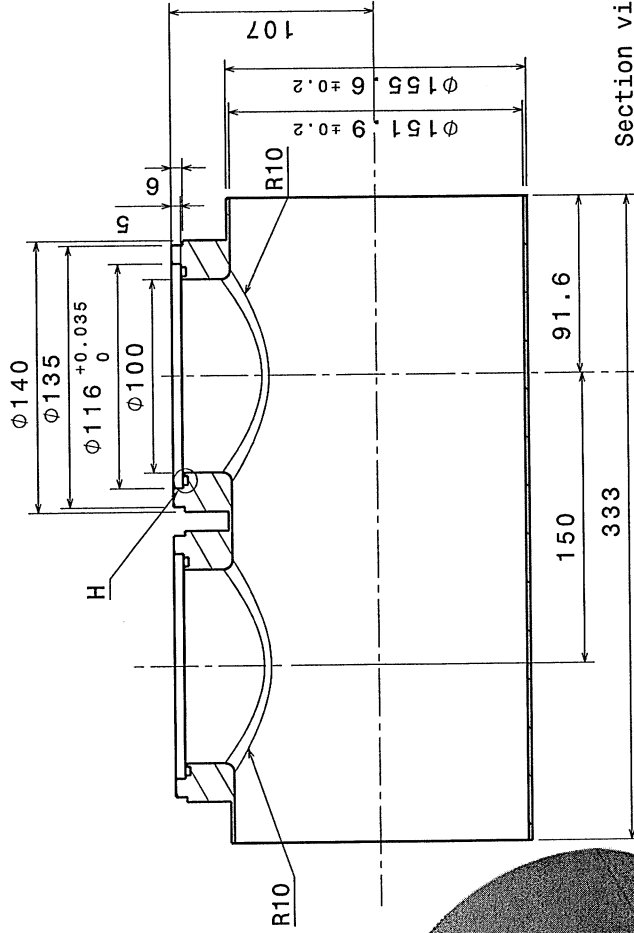


Isometric view
Scale: 2:5

BEFORE EMBOSSING,
PL COLLECT LOGO FROM ITER-India



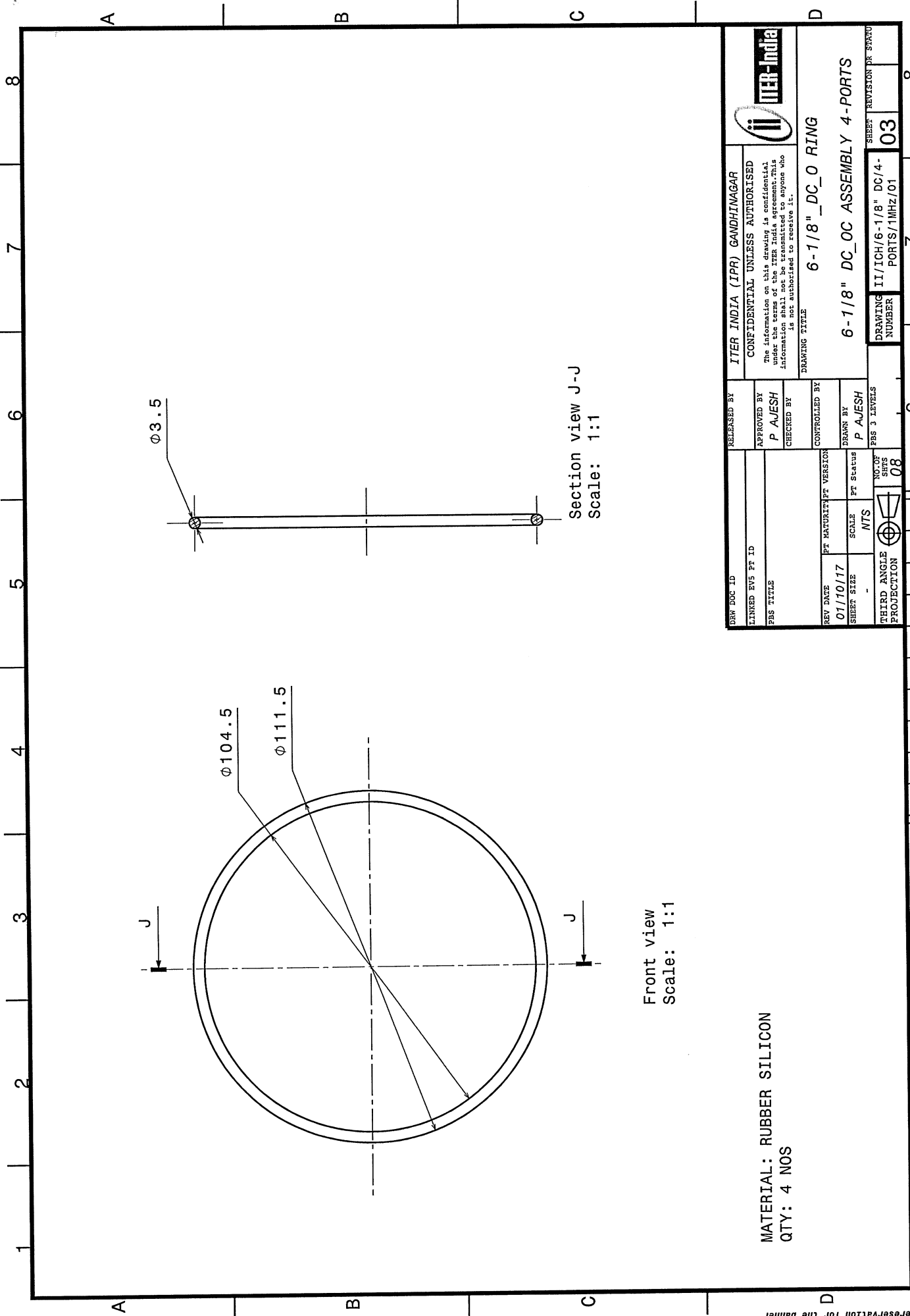
Auxiliary view G
Scale: 2:5



Section view C-C
Scale: 2:5

| | | | |
|---|--|---|--|
| ITER-India | RELEASED BY ITER INDIA (IPR) GANDHIMAGAR | DRAWING TITLE 6-1/8" _DC_OC | |
| CONFIDENTIAL UNLESS AUTHORISED under the terms of the ITER India agreement. This information shall not be transmitted to anyone who is not authorized to receive it. | APPROVED BY P AJESH | DRAWING NUMBER 6-1/8" DC_OC ASSEMBLY 4-PORTS | |
| ITER-India | CHECKED BY | SHEET REVISION OR STATUS 02 | |
| ITER-India | CONTROLLED BY | DRAWING NUMBER II/ICH/6-1/8" DC/4-PORTS/1MHZ/01 | |
| LINKED EV5 PT ID | REV DATE 28/07/17 | DRAWING NUMBER 08 | |
| PT TITLE | PT MATURITY/PT VERSION | DRAWING NUMBER 08 | |
| PT TITLE | SCALE NTS | DRAWING NUMBER 08 | |
| PT TITLE | NO. OF SETS 08 | DRAWING NUMBER 08 | |
| PT TITLE | THIRD ANGLE PROJECTION | DRAWING NUMBER 08 | |

MATERIAL: ETP COPPER
QTY.: - 01 NOS



Section view J-J
Scale: 1:1

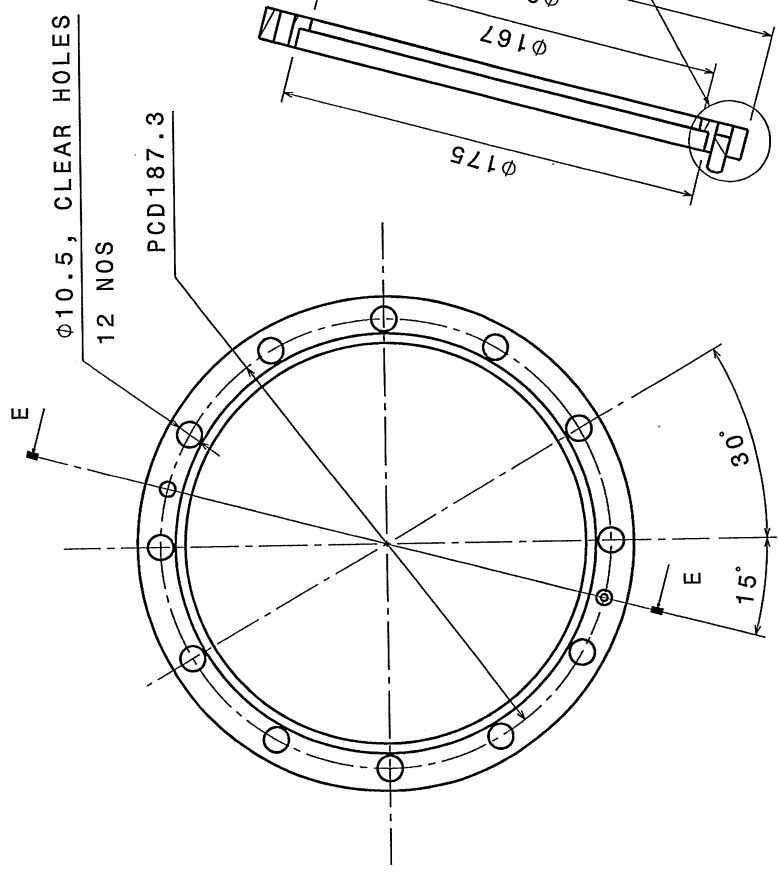
Front view
Scale: 1:1

MATERIAL: RUBBER SILICON
QTY: 4 NOS

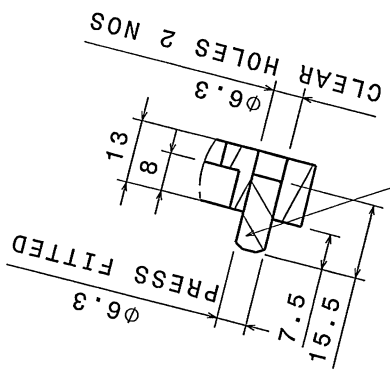
| | | | |
|---|--------------------|--------------------------------|------------------|
| DRAWING NUMBER II/ICH/6-1/8" DC/4-PORTS/1MHZ/01 | | SHEET REVISION DR STATUS 03 | |
| DRAWING TITLE 6-1/8" DC_OC ASSEMBLY 4-PORTS | | D | |
| REV DATE 01/10/17 | PT MATURITY N/A | REV DATE - | PT STATUS N/A |
| LINKED EWS PT ID | | NO. OF SHEETS 08 | |
| PBS TITLE | | THIRD ANGLE PROJECTION | |
| RELEASED BY ITER INDIA (IPR) GANDHINAGAR | | CONTROLLED BY PBS 3 LEVELS | |
| APPROVED BY P AJESH | | DRAWN BY P AJESH | |
| CHECKED BY | | D | |
| CONFIDENTIAL UNLESS AUTHORIZED The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be transmitted to anyone who is not authorized to receive it. | | ITER INDIA (IPR) GANDHINAGAR | |
| ITER INDIA (IPR) GANDHINAGAR | | ITER INDIA | |

Spacereservation for the banner

Spacereservation for the banner

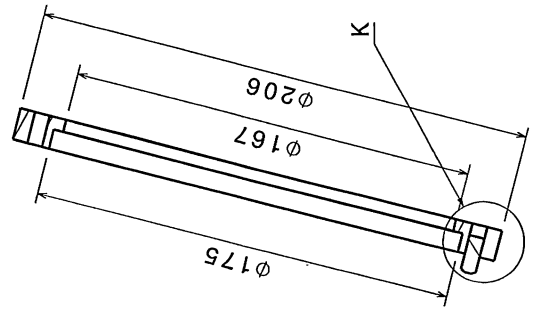


Front view
Scale: 1:2



Detail K
Scale: 1:1

DOVEL PIN MATERIAL: SS 304

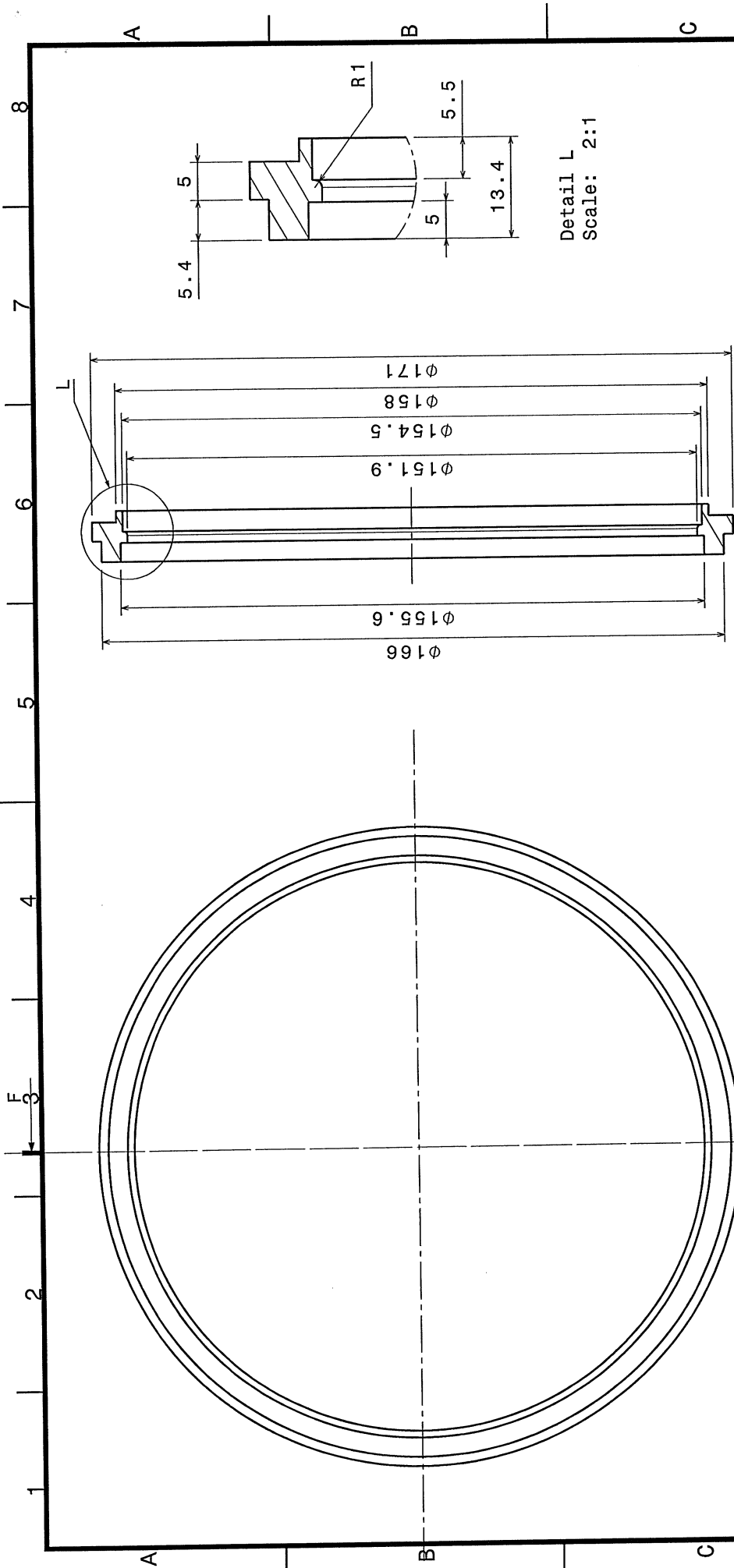


Section view E-E
Scale: 1:2

MATERIAL: -BRASS (60:40)
QTY.:- 2

- NOTE:
1. ALL THREADS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

| | | | |
|----------------------------------|---|-------------------------------|------------|
| DRW DOC ID | ITER INDIA (IPR) GANDHIMAGAR | RELEASED BY | ITER-India |
| LINKED EVS FT ID | CONFIDENTIAL UNLESS AUTHORISED | APPROVED BY | |
| PTS TITLE | The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be transmitted to anyone who is not authorized to receive it. | P AJESH | |
| REV DATE | 01/10/17 | CHECKED BY | |
| REV | 01/10/17 | CONTROLLED BY | |
| SCALE | NTS | DRAWN BY | |
| PROJECTION | 1ST ANGLE | P AJESH | |
| NO. OF SHEETS | 08 | FILED | |
| NO. OF SHEETS | 08 | REVISED | |
| DRAWING NUMBER | | DRAWING TITLE | |
| II/ICH/6-1/8" DC/4-PORTS/1MHZ/01 | | SWIVEL_FLANGE_PART_1 | |
| SHEET REVISION PR STATUS | | 6-1/8" DC_OC ASSEMBLY 4-PORTS | |
| 04 | | | |



Detail L
Scale: 2:1

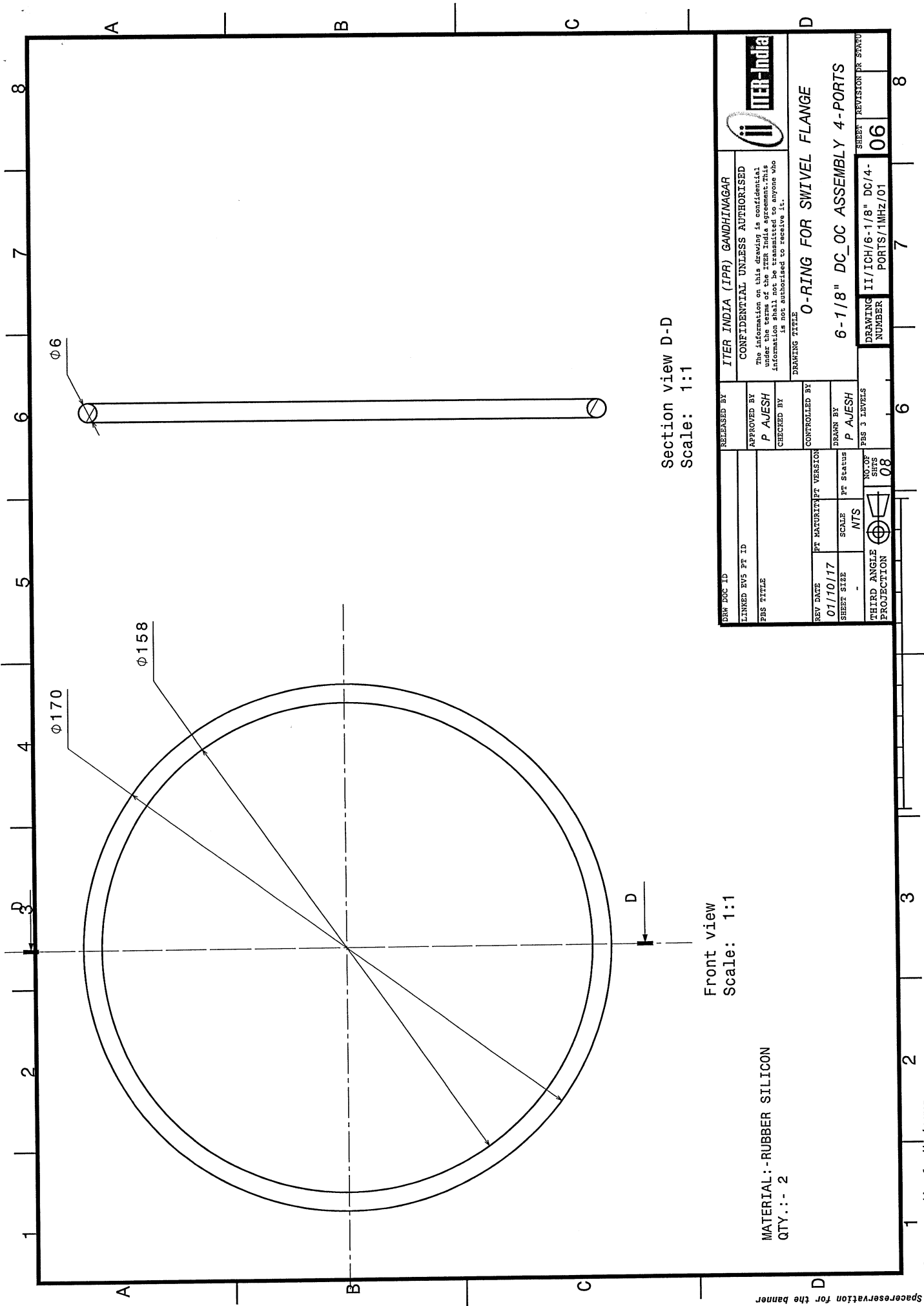
Section view F-F
Scale: 1:1

Front view
Scale: 1:1

MATERIAL: - BRASS (60:40)
QTY: - 2

- NOTE:
1. ALL THREADS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

| | | | | |
|------------------------|------------------------|------------------------------|---|--|
| DRW DOC ID | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR | | |
| LINKED EVS PT ID | APPROVED BY | P AJESH | CONFIDENTIAL UNLESS AUTHORIZED | |
| FS TITLE | CHECKED BY | P AJESH | The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be disclosed to anyone who is not authorized to receive it. | |
| REV DATE | CONTROLLED BY | | DRAWING TITLE | |
| 01/10/17 | | | SWIVEL_FLANGE_PART_2 | |
| SHEET SIZE | PT MATURITY/PT VERSION | | 6-1/8" DC_OC ASSEMBLY 4-PORTS | |
| NTS | SCALE | PT Status | SHEET REVISION/DR STATUS | |
| THIRD ANGLE PROJECTION | | P AJESH | DRAWING NUMBER | |
| | | | 05 | |
| | | | DC/4-PORTS/1MHz/01 | |
| | | | 08 | |



Front view
Scale: 1:1

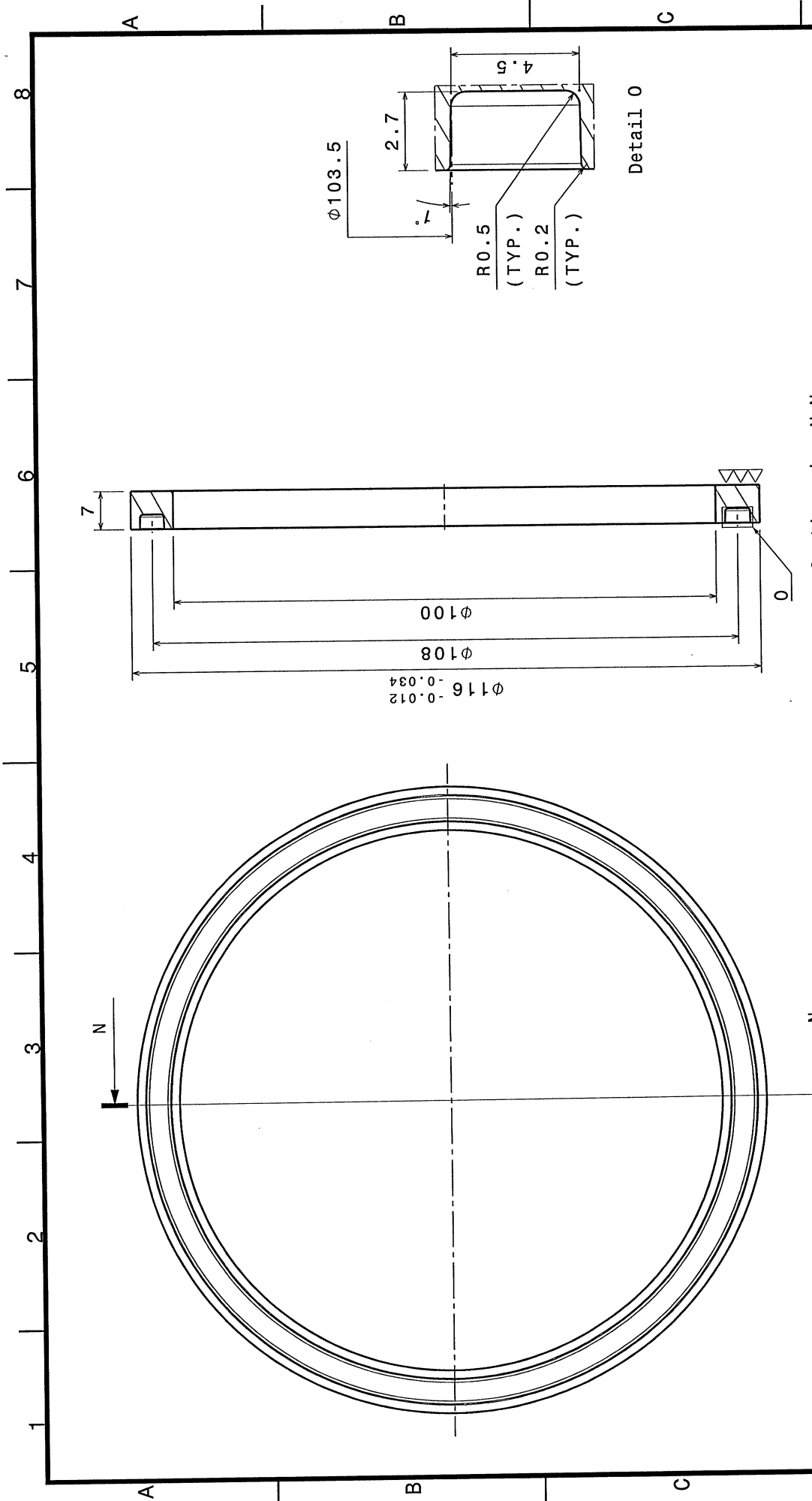
Section view D-D
Scale: 1:1

MATERIAL :- RUBBER SILICON
QTY :- 2

| | | | | |
|------------------------|---------------|---|--|--|
| DRW DOC ID | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR | | |
| DESIGNED BY PT ID | APPROVED BY | CONFIDENTIAL UNLESS AUTHORIZED | | |
| PBS TITLE | P AJESH | The information on this drawing is confidential under the terms of the ITER-India Confidentiality Agreement. It is to be transmitted to anyone who is not authorized to receive it. | | DRAWING TITLE O-RING FOR SWIVEL FLANGE |
| REV DATE | CHECKED BY | DESKN BY | | |
| PT MATURITY/PT VERSION | CONTROLLED BY | P AJESH | | DRAWING NUMBER 6-1/8" DC_OC ASSEMBLY 4-PORTS |
| 01/10/17 | DESKN BY | P AJESH | | |
| SHEET SIZE | SCALE | NTS | | SHEET REVISION PR SWTVU DC/4-PORTS/1MHZ/01 06 |
| THIRD ANGLE PROJECTION | NO OF SITS | 08 | | |

Spacereservation for the banner

Spacereservation for the banner



Section view N-N

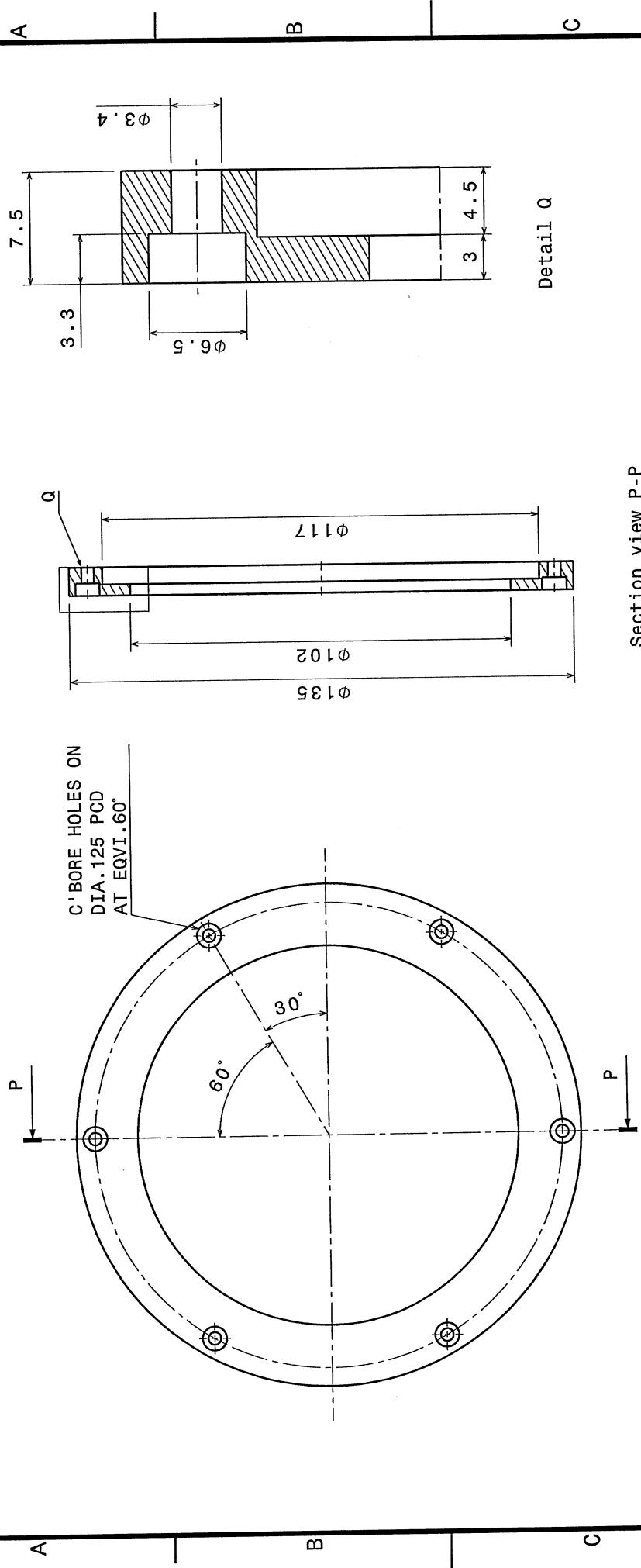
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|------------------------|-------------------------|------------------------------|---------------------------------|
| LINKED EWS PT ID | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR | |
| SHEET TITLE | APPROVED BY | P AJESH | |
| | CHECKED BY | P AJESH | |
| REV DATE | REV MATURITY/PT VERSION | CONTROLLED BY | DRAWING TITLE |
| 01/10/17 | | | PRESSURISATION RING |
| SHEET SIZE | SCALE | PT Status | |
| | NTS | P AJESH | |
| THIRD ANGLE PROJECTION | NO. OF SHEETS | NO. OF SPTS | |
| | 08 | | |
| | | | DRAWING NUMBER |
| | | | II/ICH/6-1/8"DC/4-PORTS/1MHz/01 |
| | | | SHEET REVISION DR STATUS |
| | | | 07 |

MATERIAL: - BRASS (60:40)
QTY: - 2

- NOTE:
1. ALL THREADS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

Spacereservation for the banner

Spacereservation for the banner

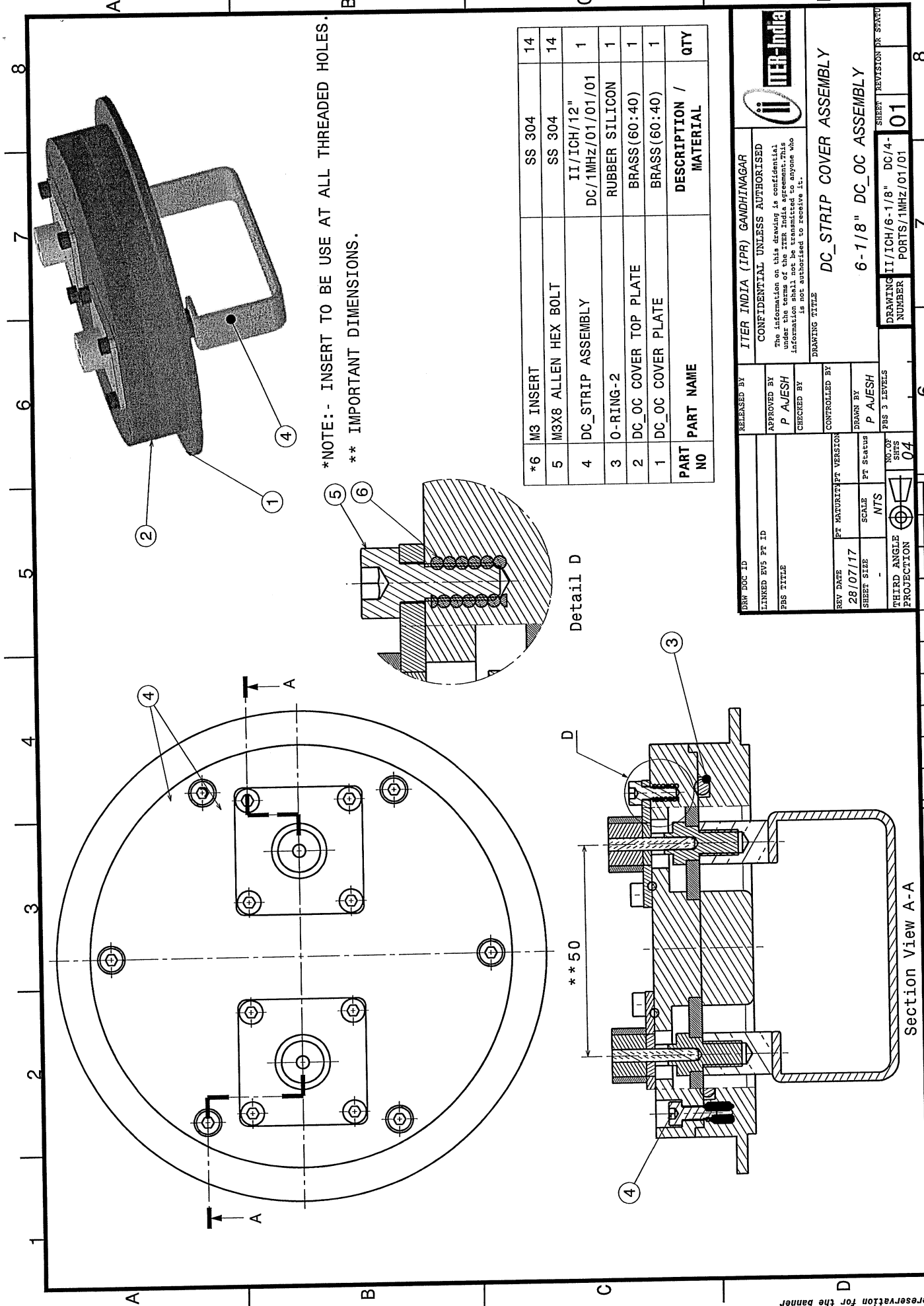


Section view P-P

| | | | | | | | |
|--|--|---|--|---------------|--|--------------------------------|--|
| ITER-India | | ITER INDIA (IPR) GANDHINAGAR | | RELEASED BY | | CONFIDENTIAL UNLESS AUTHORISED | |
| CONFIDENTIAL UNLESS AUTHORISED | | The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be transmitted to anyone who is not authorized to receive it. | | APPROVED BY | | P AJESH | |
| DRAWING NUMBER | | ITER/6-1/8-DC/4-PORTS/1MHZ/01 | | CHECKED BY | | P AJESH | |
| DRAWING NUMBER | | 08 | | CONTROLLED BY | | P AJESH | |
| DRAWING TITLE | | BOSS COVER | | NO. OF SHEETS | | 08 | |
| REV DATE | | 01/10/17 | | SCALE | | NTS | |
| SHEET SIZE | | - | | PROJECTION | | FIRST ANGLE | |
| MATERIAL : - BRASS (60:40) | | QTY : - 2 | | REV DATE | | 01/10/17 | |
| NOTE: | | 1. ALL THREADS INSERT TO BE USED | | SHEET SIZE | | - | |
| 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG | | 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE | | PROJECTION | | FIRST ANGLE | |
| 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm | | 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989 | | NO. OF SHEETS | | 08 | |

Spacereservation for the banner

Spacereservation for the banner



*NOTE:- INSERT TO BE USE AT ALL THREADED HOLES.
 ** IMPORTANT DIMENSIONS.

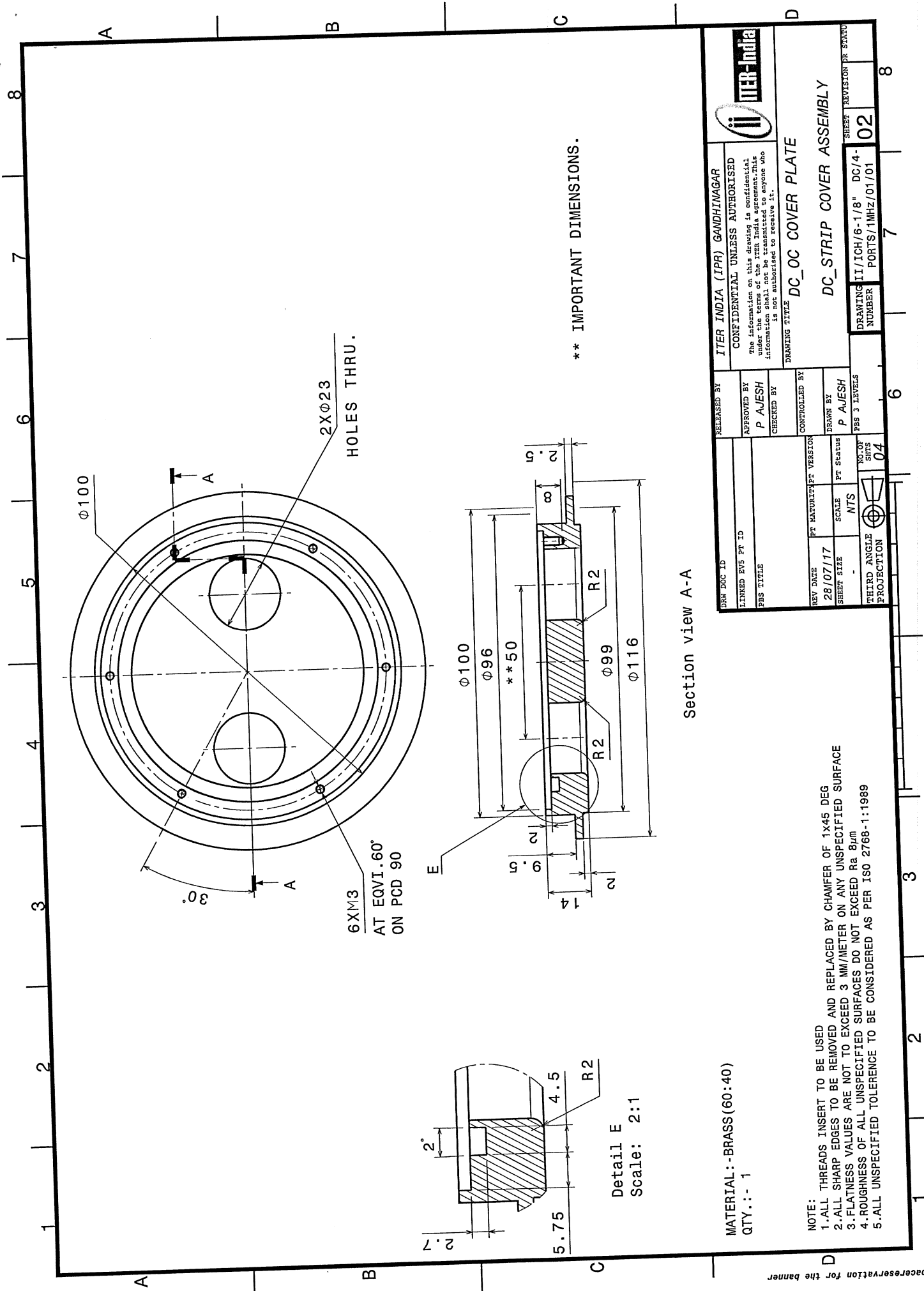
Detail D

| PART NO | PART NAME | DESCRIPTION / MATERIAL | QTY |
|---------|-----------------------|--------------------------------|-----|
| *6 | M3 INSERT | SS 304 | 14 |
| 5 | M3X8 ALLEN HEX BOLT | SS 304 | 14 |
| 4 | DC_STRIP ASSEMBLY | II/ICH/12" DC/1MHZ/01/01/01 | 1 |
| 3 | O-RING-2 | RUBBER SILICON | 1 |
| 2 | DC_OC COVER TOP PLATE | BRASS (60:40) | 1 |
| 1 | DC_OC COVER PLATE | BRASS (60:40) | 1 |

| | | |
|------------------------|---|--------------------------|
| DRW DOC ID | ITER INDIA (IPR) GANDHINAGAR | ITER-India |
| LINKED EVS FT ID | CONFIDENTIAL UNLESS AUTHORISED | |
| EVS TITLE | The information on this drawing is confidential under the terms of the ITER India agreement. No part of this drawing may be reproduced or transmitted in any form or by any means electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written permission of ITER India. This information is not authorized to be released to the public. | |
| REV DATE | REV DESCRIPTION | DRAWING TITLE |
| 28/07/17 | FT MATURITA/FT VERSION | DC_STRIP COVER ASSEMBLY |
| SHEET SIZE | SCALE | 6-1/8" DC_OC ASSEMBLY |
| - | NTS | |
| THIRD ANGLE PROJECTION | WCT/ SPTS | SHEET REVISION PR STATUS |
| | 04 | DC/4-PORTS/1MHZ/01/01 |
| | | 01 |

Spacreservation for the banner

Spacreservation for the banner



** IMPORTANT DIMENSIONS.

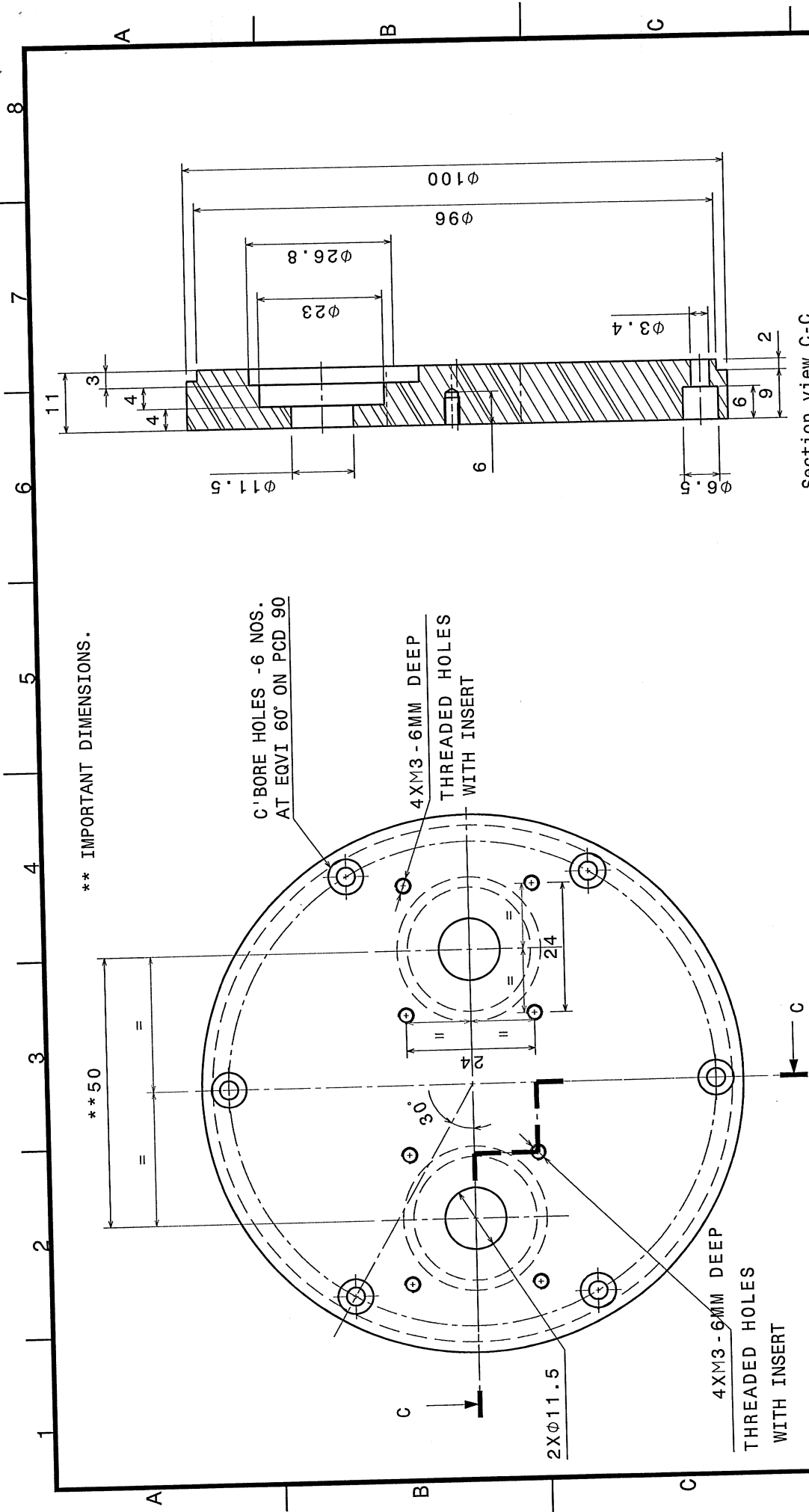
Section view A-A

Detail E
Scale: 2:1

MATERIAL:-BRASS (60:40)
QTY:- 1

- NOTE:
1. ALL THREADS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 3. ALL FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8um
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

| | | |
|--------------------------|--|------------|
| DRW DOC ID | ITER INDIA (IPR) GANDHINAGAR | ITER-India |
| LINKED EVS PT ID | CONFIDENTIAL UNLESS AUTHORISED | |
| PBS TITLE | This information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be transmitted to anyone who is not authorised to receive it. | |
| REV DATE | 28/07/17 | |
| SHEET SIZE | NTS | |
| SCALE | NTS | |
| PT STATUS | PT 3 LEVELS | |
| THIRD ANGLE PROJECTION | | |
| NO OF SHEETS | 04 | |
| RELEASSED BY | P AJESH | |
| APPROVED BY | P AJESH | |
| CHECKED BY | | |
| CONTROLLED BY | | |
| DRAWN BY | P AJESH | |
| DRAWING NUMBER | DC_OC COVER PLATE | |
| DRAWING NUMBER | DC_STRIP COVER ASSEMBLY | |
| DRAWING NUMBER | II/1CH/6-1/8" DC/4-PORTS/1MHZ/01/01 | |
| SHEET NUMBER | 02 | |
| SHEET REVISION PR. SPCRU | | |



** IMPORTANT DIMENSIONS.

C' BORE HOLES - 6 NOS.
AT EQVI 60° ON PCD 90

4XM3 - 6MM DEEP
THREADED HOLES
WITH INSERT

4XM3 - 6MM DEEP
THREADED HOLES
WITH INSERT

Section view C-C

| | | | |
|------------------------|---|---------------|------------|
| DRW DOC ID | ITER INDIA (IPP) GANDHINAGAR | RELEASED BY | ITER-India |
| LINKED EVS FT ID | CONFIDENTIAL UNLESS AUTHORISED | APPROVED BY | |
| SPS TITLE | The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be disclosed to anyone who is not authorized to receive it. | Checked by | |
| REV DATE | PT MATURITY/PT VERSION | CONTROLLED BY | |
| 28/07/17 | | DRAWN BY | |
| SHEET SIZE | SCALE | PT STATUS | |
| NTS | | PPS 3 LEVELS | |
| THIRD ANGLE PROJECTION | NO. OF SHEETS | | |
| | 04 | | |

| | | |
|-------------------------|--|-----------------------|
| DRAWING TITLE | | DC_OC COVER TOP PLATE |
| DRAWING NUMBER | | DC/4-PORTS/1MHZ/01/01 |
| SHEET NUMBER | | 03 |
| SHEET REVISION OR SURVO | | |

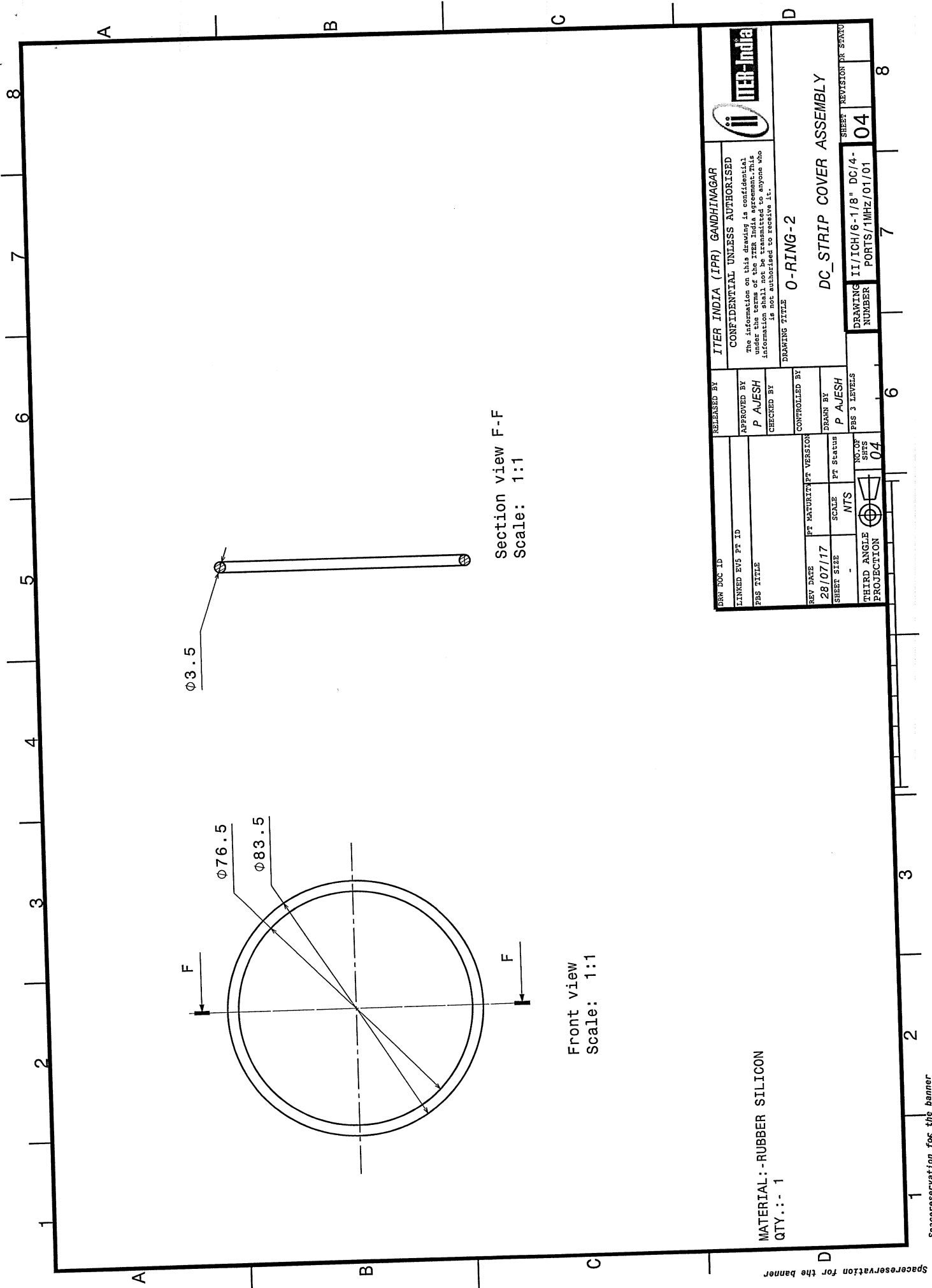
MATERIAL :- BRASS (60:40)
QTY :- 1

NOTE:

1. ALL THREADS INSERT TO BE USED
2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

Spacereservation for the banner

Spacereservation for the banner



Section view F-F
Scale: 1:1

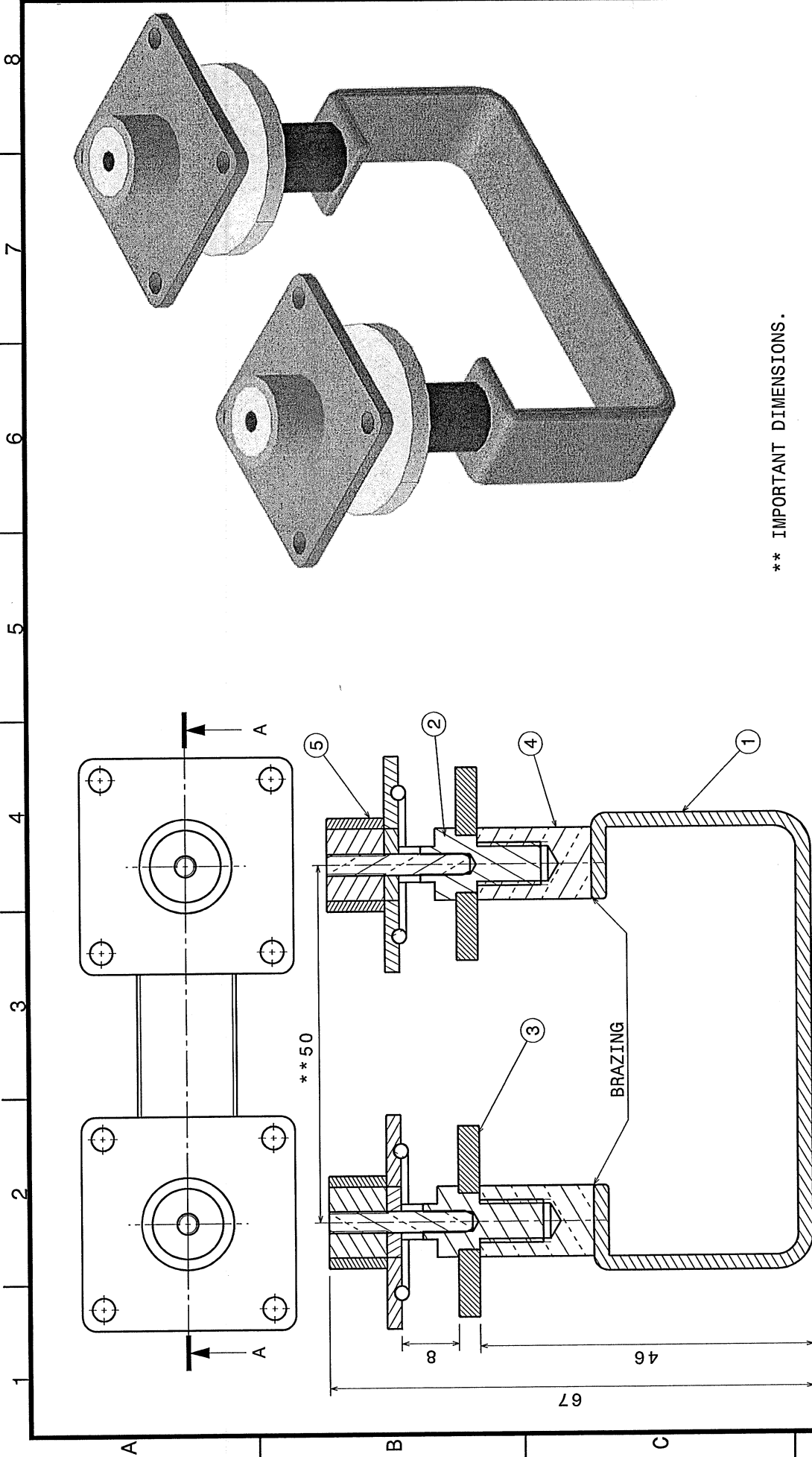
Front view
Scale: 1:1

MATERIAL :- RUBBER SILICON
QTY :- 1

| | | | | | |
|--------------------------------|--|---|--|---------------|--|
| ITER-India | | ITER INDIA (IPR) GANDHINAGAR | | RELEASED BY | |
| CONFIDENTIAL UNLESS AUTHORIZED | | The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be transmitted to anyone who is not authorized to receive it. | | APPROVED BY | |
| DRAWING TITLE | | O-RING - 2 | | P AJESH | |
| DRAWING NUMBER | | II/ICH/6-1/8" DC/4-PORTS/1MHZ/01/01 | | CHECKED BY | |
| SHEET REVISION PR. START | | 04 | | CONTROLLED BY | |
| REV. DATE | | PT MATUR/PT VERSION | | DRAWN BY | |
| 28/07/17 | | SCALE | | P AJESH | |
| SHEET SIZE | | NTS | | PES 3 LEVELS | |
| THIRD ANGLE PROJECTION | | NO. OF SETS | | 04 | |

Space reservation for the banner

Space reservation for the banner



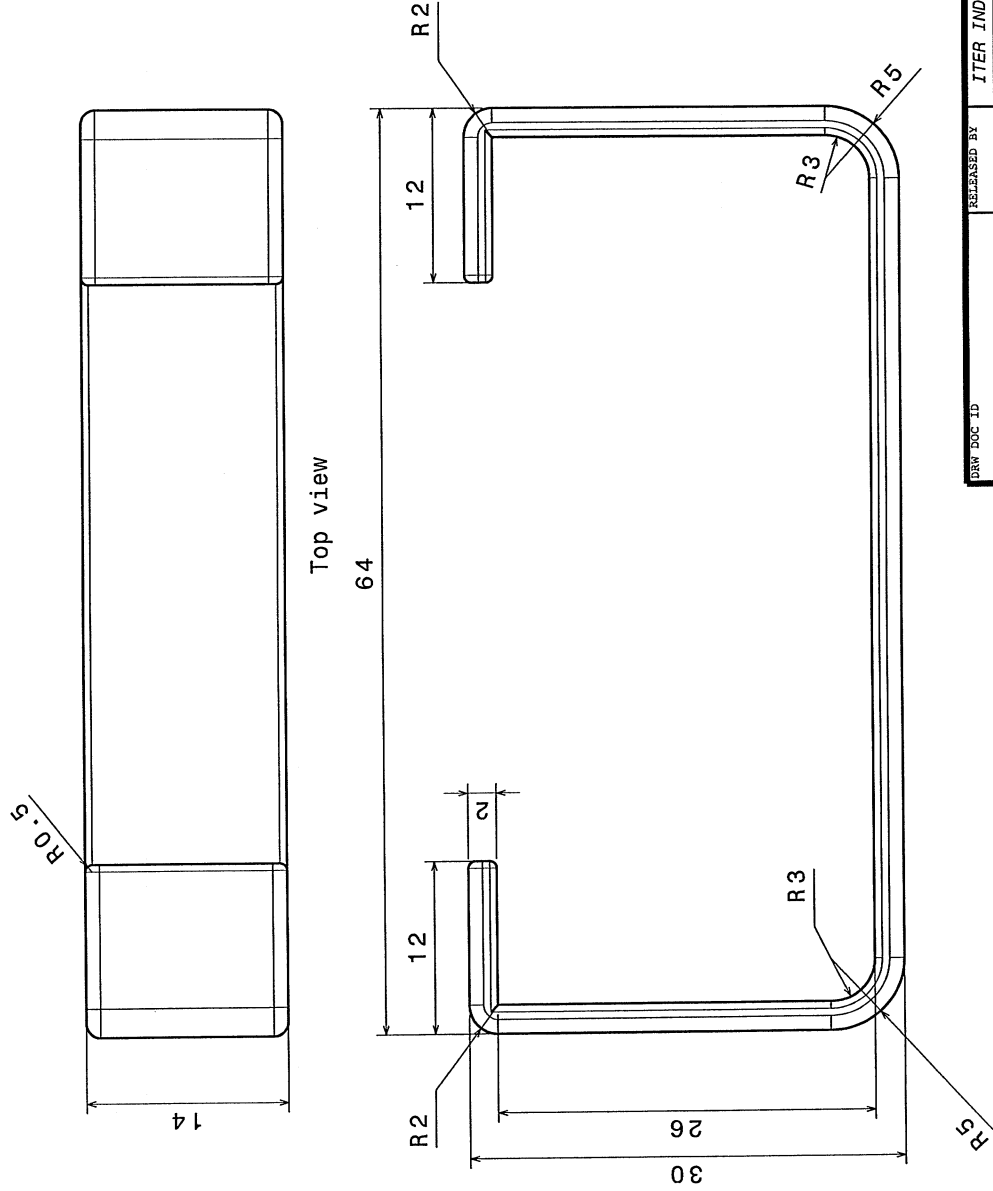
** IMPORTANT DIMENSIONS.

| PART NO | PART NAME | DESCRIPTION / MATERIAL | QTY |
|---------|-----------------------------|------------------------|-----|
| 5 | CONNECTOR | STD | 2 |
| 4 | CONNECTOR COPPER PIN FEMALE | ETP COPPER | 2 |
| 3 | TEFLON HOLDER RING | TEFLON | 2 |
| 2 | CONNECTOR COPPER PIN | ETP COPPER | 2 |
| 1 | COPPER STRIP | ETP COPPER | 1 |

Section view A-A

| | | | |
|---|--|--------------------|-------------------|
| REV DATE 28/07/17 | REV DESCRIPTION PT STATUS SCALE NTS | NO OF SHEETS 06 | PROJECTION |
| DRW DOC ID | LINKED EVS PT ID | PBS TITLE | |
| RELEASED BY ITER INDIA (IPR) GANDHINAGAR | APPROVED BY P AJESH | CONTROLLED BY | |
| CONFIDENTIAL UNLESS AUTHORIZED The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be disclosed to anyone who is not authorized to receive it. | | | |
| DRAWING TITLE DC_STRIP ASSEMBLY | | | |
| DC_STRIP COVER ASSEMBLY FOR 1MHZ | | | |
| DRAWING NUMBER II/1CH/6-1/8" | DC/4-PORTS/1MHZ/01/01/01 | SHEET NUMBER 01 | REVISION DR SERVU |

Top view



MATERIAL :- ETP COPPER
 QTY :- 1

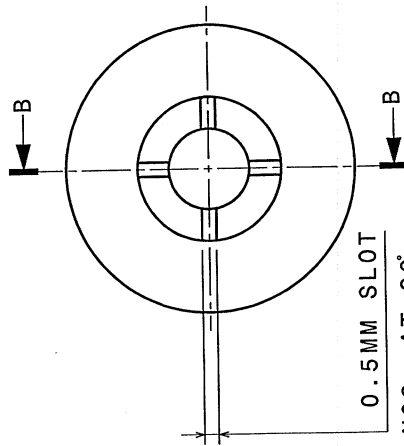
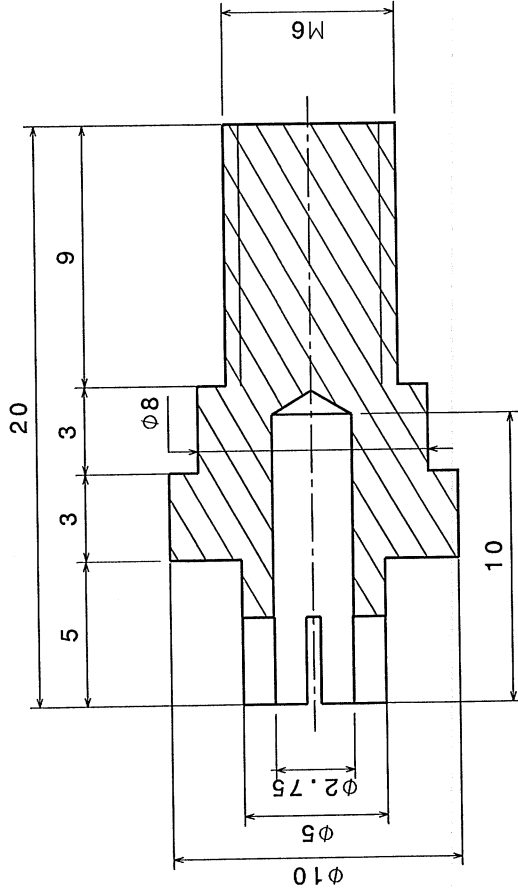
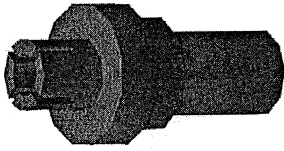
NOTE:

1. ALL THREADS INSERT TO BE USED
2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

| | | | |
|------------------------|--------------------------------|------------------------------|---|
| DRW DOC ID | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR | |
| LINKED EN5 PT ID | CONFIDENTIAL UNLESS AUTHORIZED | | |
| PBS TITLE | APPROVED BY | P AJESH | The information on this drawing is confidential and its disclosure outside the organization shall not be transmitted to anyone who is not authorized to receive it. |
| REV DATE | CHECKED BY | | |
| REV DATE | CONTROLLED BY | | DRAWING TITLE |
| 28/07/17 | PT Maturity | | COPPER STRIP |
| SHEET SIZE | SCALE | NTS | DC_STRIP ASSEMBLY |
| THIRD ANGLE PROJECTION | NO. OF SFTS | 06 | DRAWING NUMBER |
| | | | ITER/1/ICH/6-1/8' DC/4-PORTS/1MHZ/01/01/01 |
| | | | SHEET REVISION NO |
| | | | 02 |

Spacereservation for the banner

Spacereservation for the banner

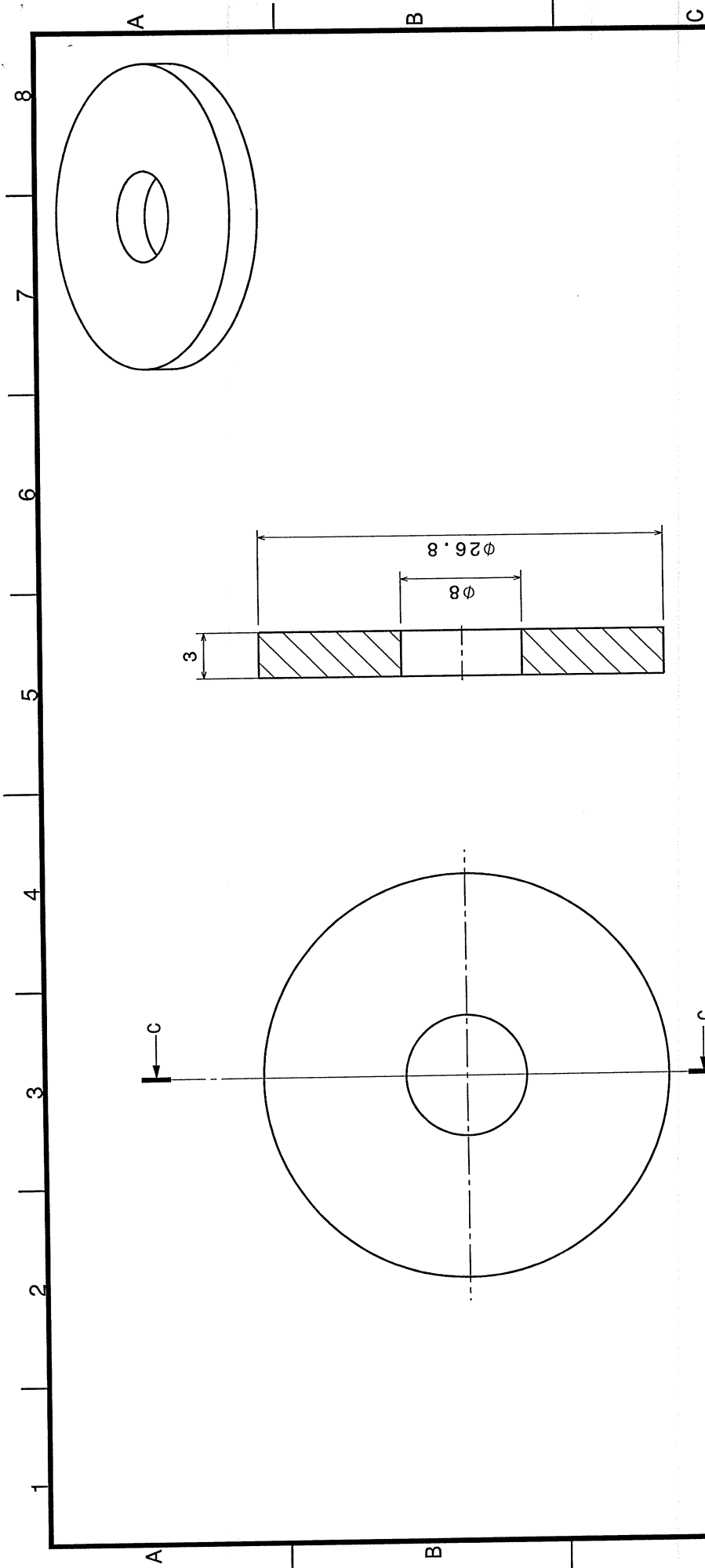


Section view B-B

MATERIAL:-ETP COPPER
QTY.:- 2

- NOTE:
- 1.-ALL THREADS INSERT TO BE USED
 - 2.-ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 - 3.-FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 - 4.-ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8 μ m
 - 5.-ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

| | | | | | | | |
|--|--|---|--|---------------|--|--|--|
| ITER-India | | ITER INDIA (IPR) GANDHINAGAR | | RELEASED BY | | ITER INDIA (IPR) GANDHINAGAR | |
| CONFIDENTIAL UNLESS AUTHORISED | | The information on this drawing is confidential under the terms of the IPR licence. No part of this information is to be disclosed or reproduced without the prior written consent of ITER-India. | | APPROVED BY | | CONFIDENTIAL UNLESS AUTHORISED | |
| DRAWING TITLE | | DRAWN BY | | CHECKED BY | | DRAWING TITLE | |
| CONNECTOR COPPER PIN | | P AJESH | | P AJESH | | CONNECTOR COPPER PIN | |
| DC_STRIP ASSEMBLY | | SCALE | | CONTROLLED BY | | DC_STRIP ASSEMBLY | |
| II/ICH/6-1/8" DC/4-PORTS/1MHz/01/01/01 | | NTS | | DRAWN BY | | II/ICH/6-1/8" DC/4-PORTS/1MHz/01/01/01 | |
| 03 | | THIRD ANGLE PROJECTION | | P AJESH | | 03 | |
| SHEET REVISION OR STATUS | | REVISION | | FBS 3 LEVELS | | SHEET REVISION OR STATUS | |
| 06 | | 06 | | 06 | | 06 | |



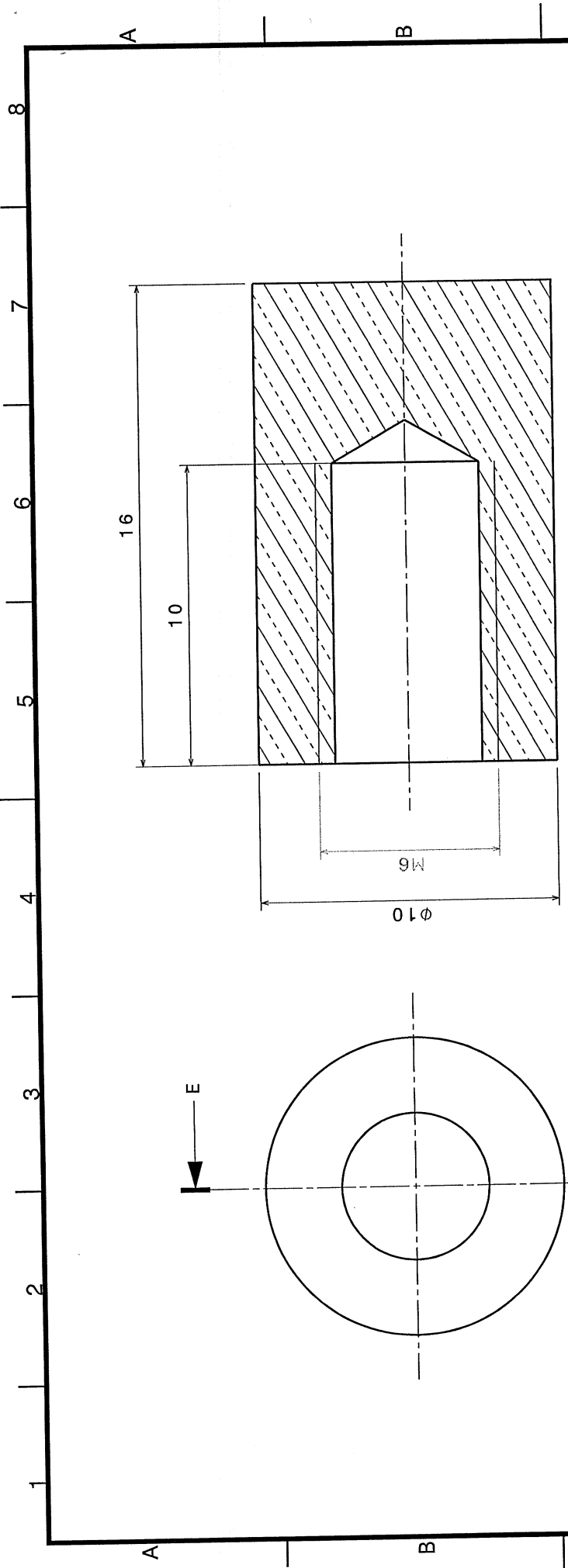
Section view C-C

MATERIAL: TEFLON ROD PTFE ASTM D1710-8, 11B/ TEFLON PLATE PTFE ASTM D3294-03, 11A
 QUANTITY: 02

| | | | | |
|------------------------|------------------------|---------------|--|--|
| DRW DOC ID | LINKED EV5 FT ID | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR | |
| EBS TITLE | | APPROVED BY | CONFIDENTIAL UNLESS AUTHORISED | |
| REV DATE | PT MATURITY/PT VERSION | CONTROLLED BY | DRAWING TITLE | |
| 28/07/17 | | DRAWN BY | CONNECTOR COPPER PIN | |
| SHEET SIZE | SCALE | PT STATUS | DC_STRIP ASSEMBLY | |
| | NTS | P AJESH | SHEET REVISION PR STATU | |
| THIRD ANGLE PROJECTION | NO OF SHOTS | FBS 3 LEVELS | DRAWING NUMBER | |
| | 06 | | II/ICH/6-1/8" DC/4-PORTS/1MHZ/01/01/01 | |
| | | | 04 | |

Spacereservation for the banner

Spacereservation for the banner

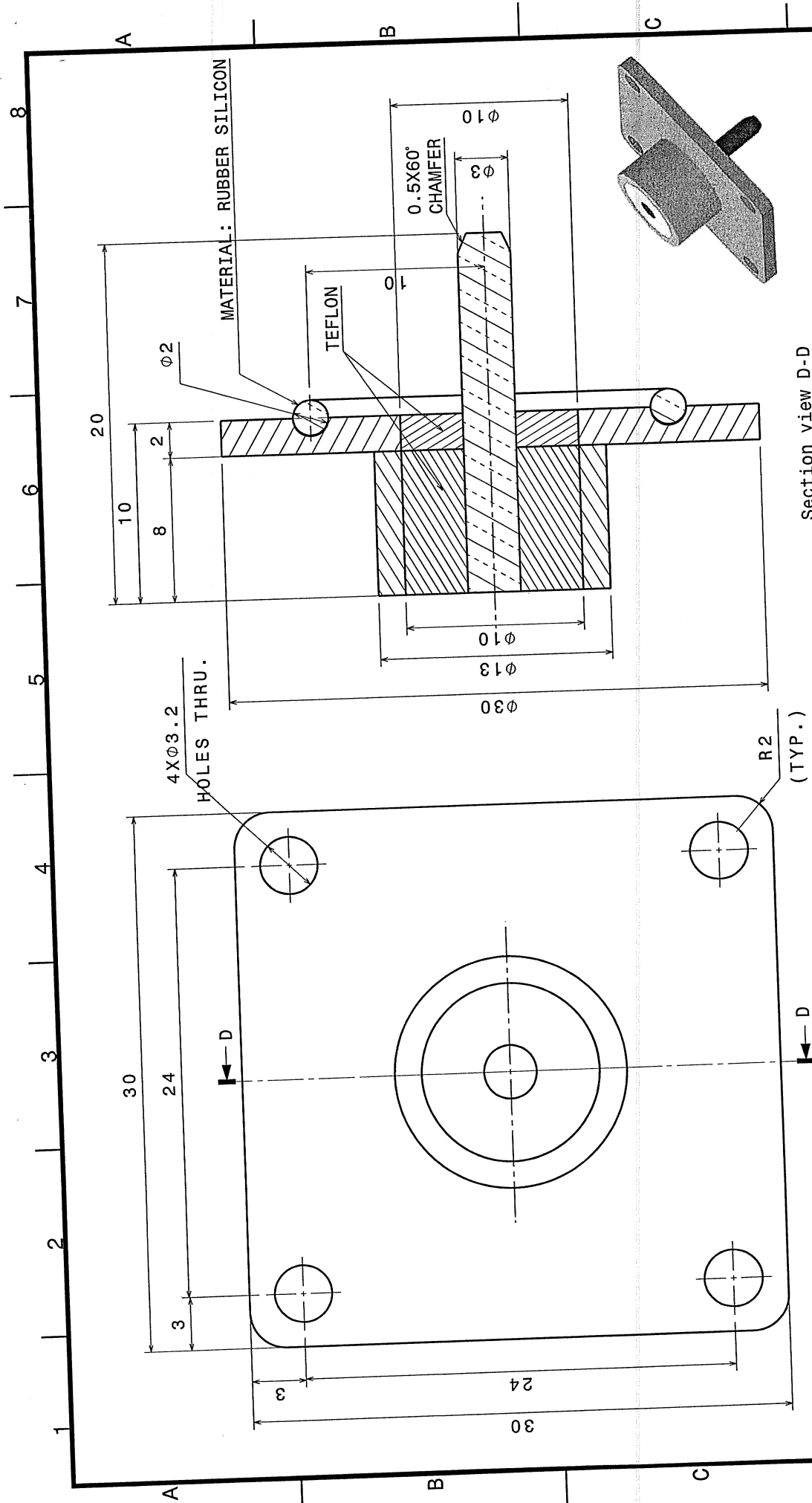


Section view E-E

MATERIAL:- ETP COPPER
 QTY. :- 2

- NOTE:
1. ALL THREADS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

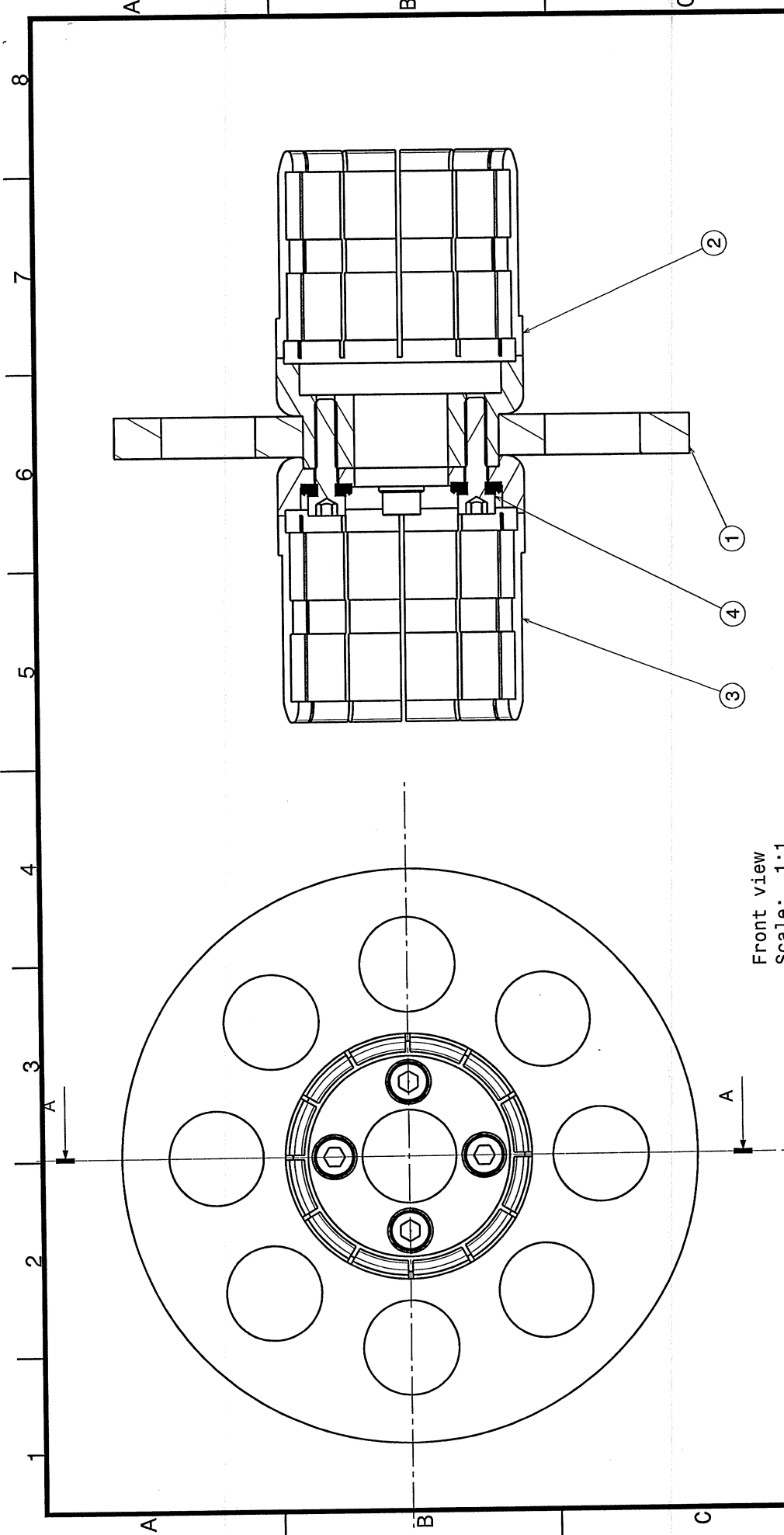
| | | | | | | | | | | | |
|--------------------------------|--|---|--|----------------|--|--|--|--------------------------|--|-----------------------------|--|
| ITER-India | | ITER INDIA (IPR) GANDHINAGAR | | RELEASED BY | | ITER INDIA (IPR) GANDHINAGAR | | DRAWING TITLE | | CONNECTOR COPPER PIN FEMALE | |
| CONFIDENTIAL UNLESS AUTHORISED | | The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be disclosed to anyone who is not authorised to receive it. | | APPROVED BY | | P AJESH | | DRAWN BY | | P AJESH | |
| CHECKED BY | | CONTROLLED BY | | DRAWING NUMBER | | II/ICH/6-1/8" DC/4-PORTS/1MHZ/01/01/01 | | SHEET REVISION DR STATUS | | 05 | |
| LINKED EVS PT ID | | REV DATE | | SHEET SIZE | | SCALE | | THIRD ANGLE PROJECTION | | NOT OF THIS | |
| PT MATURE | | 28/07/17 | | - | | NTS | | 06 | | 06 | |
| PT STATUS | | PT STATUS | | PT STATUS | | PT STATUS | | PT STATUS | | PT STATUS | |
| PES 3 LEVELS | | PES 3 LEVELS | | PES 3 LEVELS | | PES 3 LEVELS | | PES 3 LEVELS | | PES 3 LEVELS | |



MATERIAL/DESCRIPTION :- STANDARD
 QTY. :- 2

| | | | |
|------------------------|----------------------|------------------------------|---|
| DRW DOC ID | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR | ITER-India |
| LINKED EVS PT ID | APPROVED BY | P AJESH | CONFIDENTIAL UNLESS AUTHORIZED The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be transmitted to anyone who is not authorized to receive it. |
| PBS TITLE | CHECKED BY | | |
| REV DATE | CONTROLLED BY | | DRAWING TITLE |
| 28/07/17 | | | CONNECTOR |
| SHEET SIZE | PT MATOKR/PT VERSTON | | DC_STRIP ASSEMBLY |
| SCALE | PT STATUS | | DRAWING NUMBER |
| NTS | | | II/ICH/6-1/8" DC/4-PORTS/1MHZ/01/01/01 |
| THIRD ANGLE PROJECTION | NO OF SHTS | 06 | SHEET REVISION NO |
| | | | 06 |

1 2 3 4 5 6 7 8



Section view A-A
Scale: 1:1

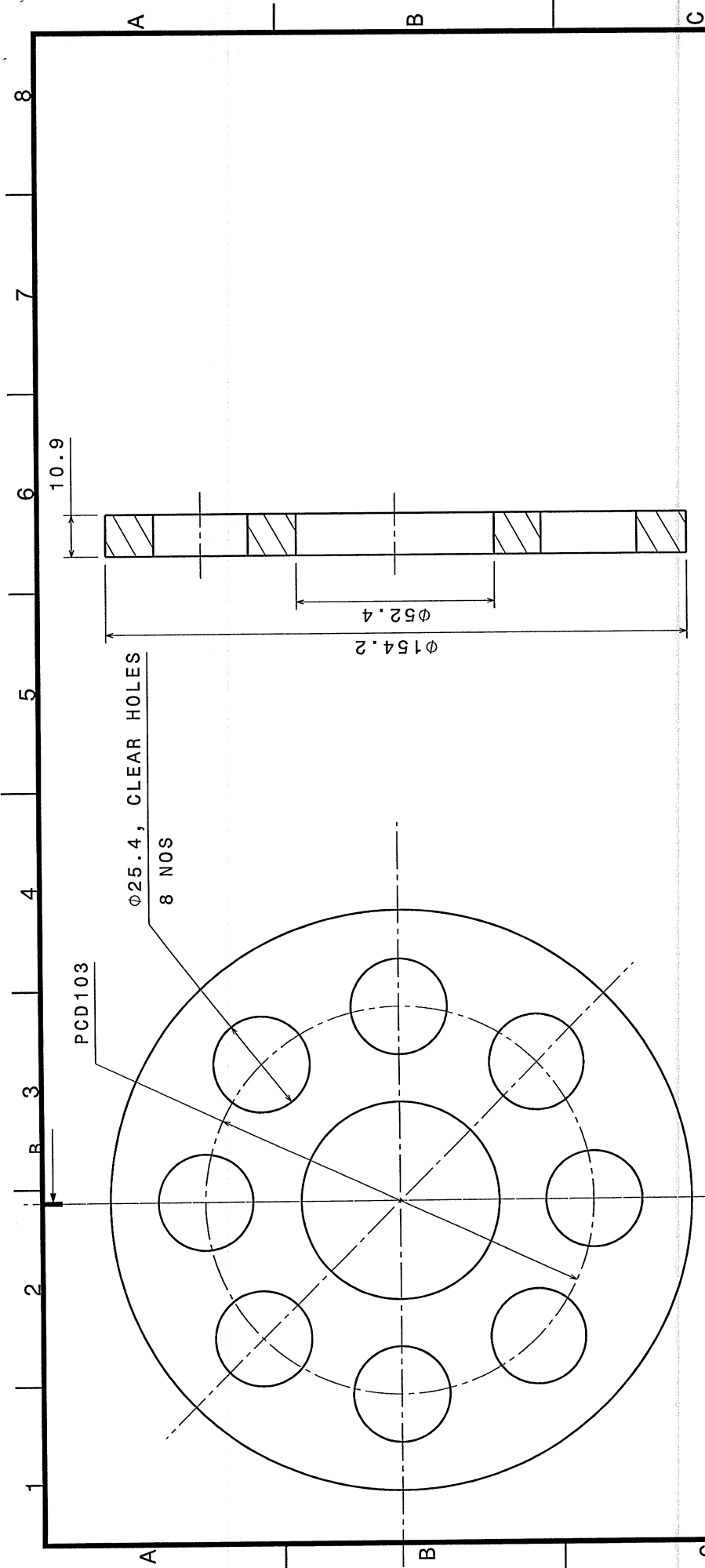
Front view
Scale: 1:1

| PART NO | PART NAME | DESCRIPTION / MATERIAL | QTY |
|---------|----------------------------|------------------------|-----|
| 4 | MX25L CAP SCREW AND WASHER | SS 304 | 4 |
| 3 | IC JOINT FEMALE | BRASS 60:40 | 1 |
| 2 | IC JOINT MALE | BRASS 60:40 | 1 |
| 1 | TEFLON DISK | TEFLON | 1 |

| | | | |
|------------------------|-------------|------------------------------|--|
| DRW DOC ID | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR | ITER-India |
| LINKED REV PT ID | APPROVED BY | P AJESH | CONFIDENTIAL UNLESS AUTHORISED |
| PBS TITLE | CHECKED BY | | The information on this drawing is confidential. Its disclosure to anyone other than authorized personnel is not authorized to receive it. |
| REV DATE | PT MATURITY | PT VERSION | DRAWING TITLE |
| 01/10/17 | NTS | NTS | 6-1/8" INCH IC JOINT ASSEMBLY |
| SHEET SIZE | SCALE | PT STATUS | 6-1/8" DIRECTIONAL COUPLER 4-PORTS |
| | | | SHEET REVISION FOR STAFF |
| THIRD ANGLE PROJECTION | NO. OF SHES | 04 | DRAWING NUMBER |
| | | | 01 |
| | | | PORTS/1MHz/03 |

Spacereservation for the banner

Spacereservation for the banner



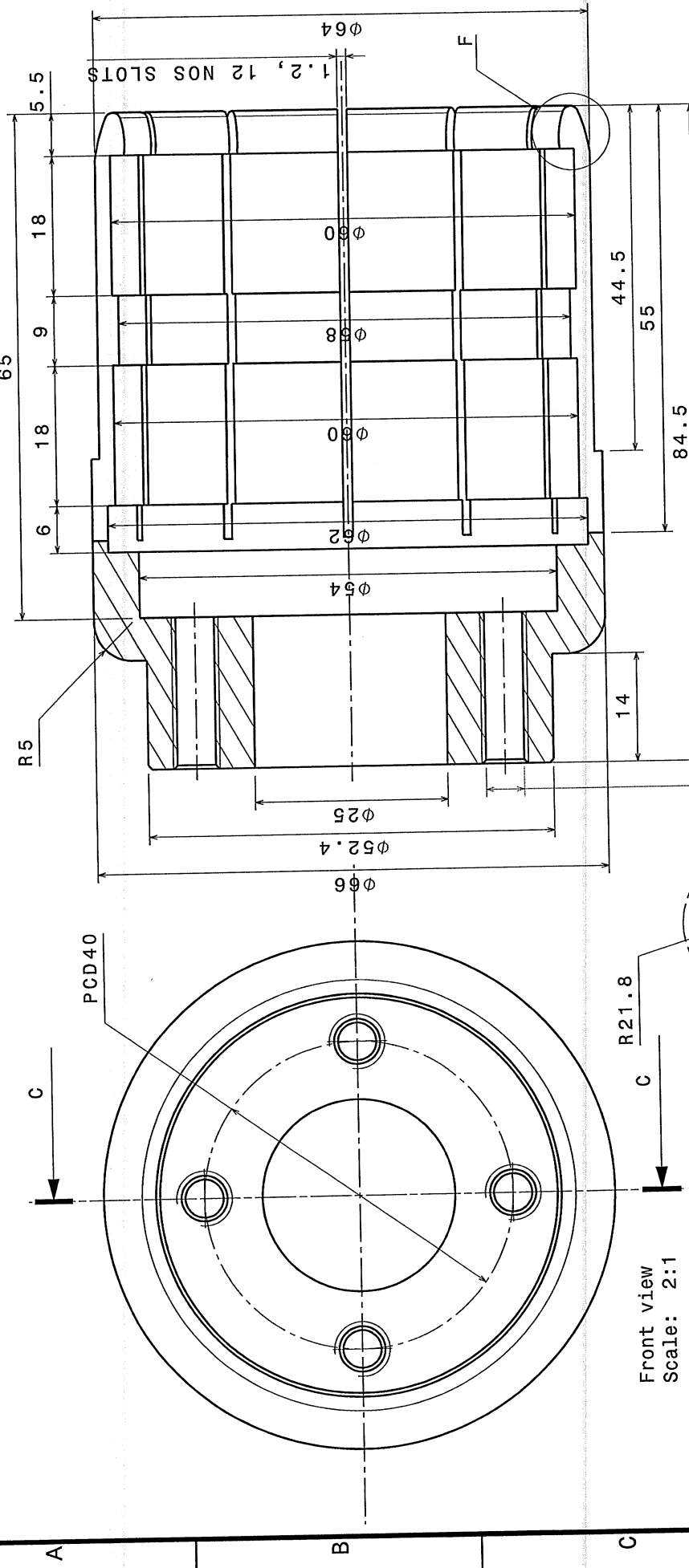
MATERIAL: TEFLON ROD PTFE ASTM D1710-8, 11B/ TEFLON PLATE PTFE ASTM D3294-03, 11A
QTY: 01

| | | | | |
|------------------------|------------------------|---------------|--------------------------------|---------------------------------|
| DRW DOC ID | LINKED EWS PT ID | RELEASED BY | ITER INDIA (IPR) GANDHIMAGAR | |
| PBS TITLE | APPROVED BY | P AJESH | CONFIDENTIAL UNLESS AUTHORISED | |
| REV DATE | PT MATURITY/PT VERSION | CONTROLLED BY | | DRAWING TITLE |
| 01/10/17 | 01/10/17 | SCALE | NTS | TEFLON DISK |
| SHEET SIZE | PT STATUS | DRAWN BY | P AJESH | 6-1/8" IC JOINT ASSEMBLY |
| | | CHECKED BY | | FBS 3 LEVELS |
| THIRD ANGLE PROJECTION | NO. OF SHOTS | | | DRAWING NUMBER |
| | 04 | | | II/ICH/6-1/8"DC/4-PORTS/1MHz/03 |
| | | | | SHEET REVISION DR STATUS |
| | | | | 02 |

Spacereservation for the banner

Spacereservation for the banner

1 2 3 4 5 6 7 8



Section view C-C
Scale: 2:1

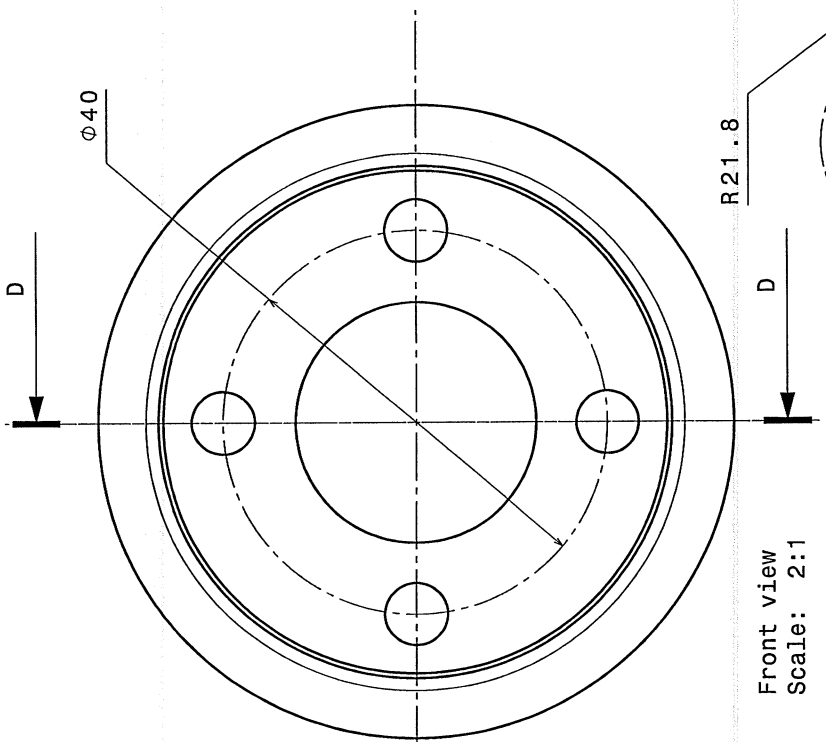
Front view
Scale: 2:1

Detail F
Scale: 4:1

MATERIAL : BRASS (60:40)
QTY: 01

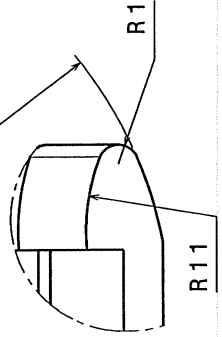
- NOTE:
1. ALL THREADS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989
 6. AFTER FINGER CONTACT SOLDERING FULL BODY SLIVER PLATING TO BE DONE FOR 50µ

| | | | |
|---|------------------------------|------------------------------|--------------------------------|
| ITER-India | ITER INDIA (IPR) GANDHINAGAR | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR |
| CONFIDENTIAL UNLESS AUTHORIZED | | APPROVED BY | CONFIDENTIAL UNLESS AUTHORIZED |
| The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be disclosed to anyone who has not been authorized to receive it. | | CHECKED BY | P AJESH |
| DRAWING TITLE | | CONTROLLED BY | |
| IC JOINT MALE | | DRAWN BY | P AJESH |
| 6-1/8" IC JOINT ASSEMBLY | | PBS 3 LEVELS | |
| DRAWING NUMBER | | NO. OF SHEETS | |
| 03 | | 04 | |
| SHEET REVISION DR STATUS | | THIRD ANGLE PROJECTION | |
| II/ICH/6-1/8"DC/4-PORTS/1MHZ/03 | | SCALE | |
| | | NTS | |
| | | REV DATE | |
| | | 01/10/17 | |
| | | PT MATURITY/PT VERSION | |
| | | LINKED EVS PT ID | |
| | | FBS TITLE | |
| | | REV DATE | |
| | | 01/10/17 | |
| | | SCALE | |
| | | NTS | |
| | | PT STATUS | |
| | | P AJESH | |
| | | CONTROLLED BY | |
| | | | |
| | | RELEASED BY | |
| | | ITER INDIA (IPR) GANDHINAGAR | |

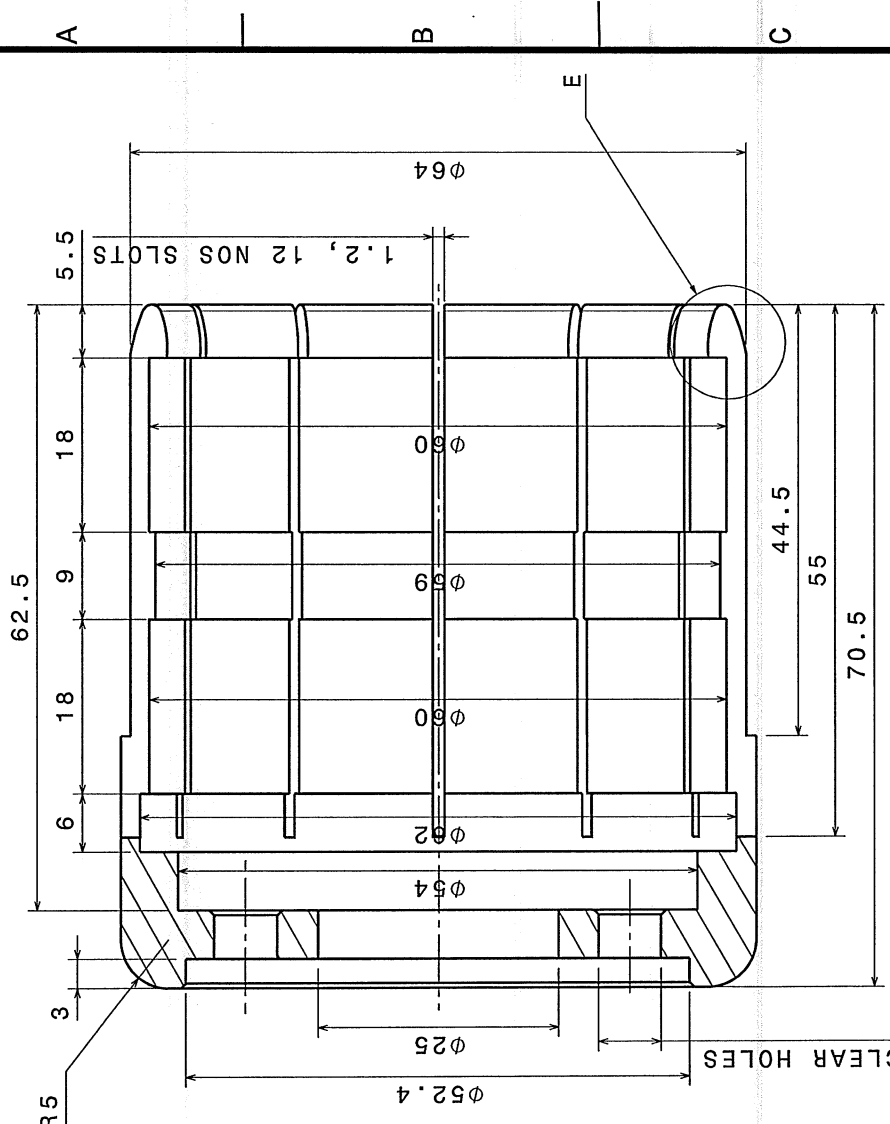


Front view
Scale: 2:1

MATERIAL : BRASS (60:40)
QTY: 01



Detail E
Scale: 4:1



Section view D-D
Scale: 2:1

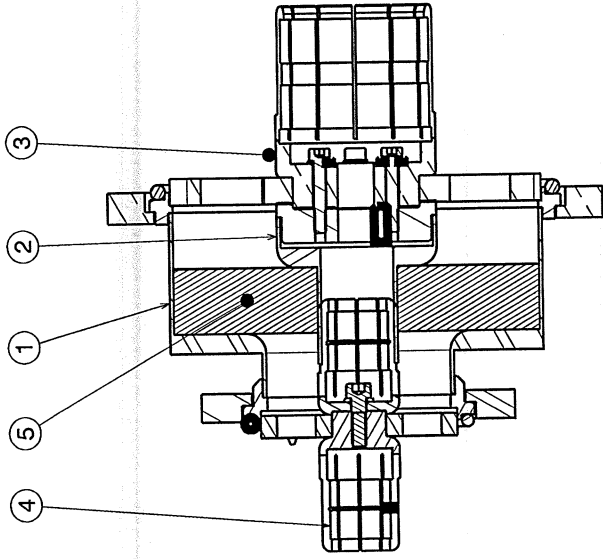
| | | | |
|------------------------|------------------------|---|---------------------------------|
| DRW DOC ID | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR | ITER-India |
| LINKED RV5 FT ID | APPROVED BY | CONFIDENTIAL UNLESS AUTHORIZED | |
| PBS TITLE | P AJESH | The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be transmitted to anyone who is not authorized to receive it. | |
| REV DATE | FT MATURITY/FT VERSION | DRAWING TITLE | IC JOINT FEMALE |
| 01/10/17 | SCALE | 6-1/8" IC JOINT ASSEMBLY | |
| SHEET SIZE | FT Status | DRAWING NUMBER | II/ICH/6-1/8"DC/4-PORTS/1MHZ/03 |
| - | NTS | 04 | 04 |
| THIRD ANGLE PROJECTION | NO OF SHEETS | | |
| | 04 | | |

- NOTE:
1. ALL THREADS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989
 6. AFTER FINGER CONTACT SOLDERING FULL BODY SLIVER PLATING TO BE DONE FOR 50µ

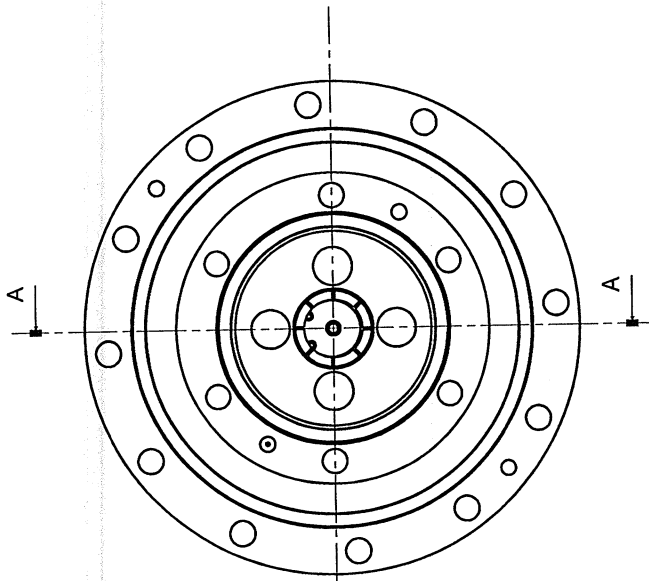
Annexure-II

Engineering drawings





Section view A-A
Scale: 1:2



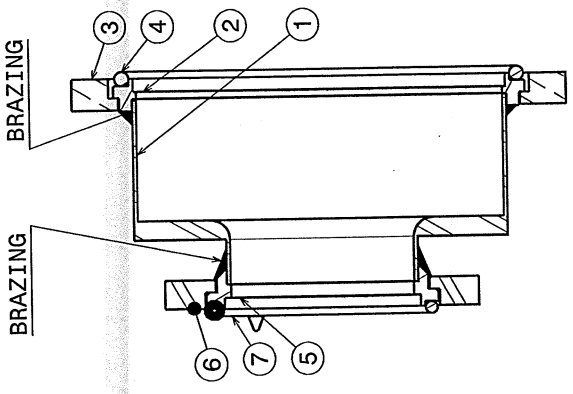
Front view
Scale: 1:2

| | | | |
|----------------|---|--------------------------------|------------|
| 5 | TEFLON BLOCK | II/ICH/6_3" REDUCER/1MHZ/05 | 1 |
| 4 | 3-1/8" FLANGE DISK IC JOINT ASSEMBLY | II/ICH/6_3" REDUCER/1MHZ/04 | 1 |
| 3 | 6-1/8" FLANGE DISK IC JOINT ASSEMBLY | II/ICH/6_3" REDUCER/1MHZ/03 | 1 |
| 2 | IC_ASSEMBLY | II/ICH/6_3" REDUCER/1MHZ/02 | 1 |
| 1 | OC_ASSEMBLY | II/ICH/6_3" REDUCER/1MHZ/01 | 1 |
| PART NO | PART NAME | DESCRIPTION / MATERIAL | QTY |

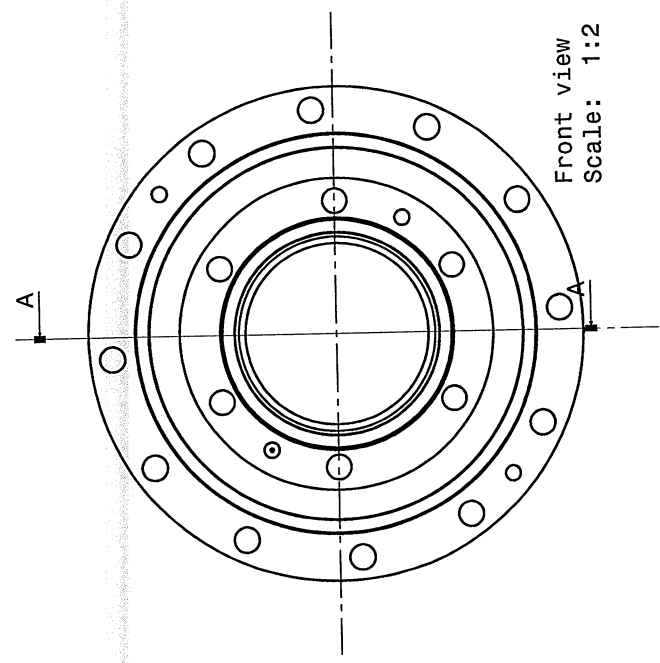
Spacereservation for the banner

| | | | | |
|------------------------|------------------|---------------|---|--------------------------------|
| DRW DOC ID | LINKED SVS PT ID | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR | |
| PT TITLE | PT STATUS | APPROVED BY | CONFIDENTIAL UNLESS AUTHORISED | |
| REV DATE | SCALE | CHECKED BY | The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be disclosed to anyone who has not been authorised to receive it. | |
| REV DATE | SCALE | CONTROLLED BY | ITER INDIA (IPR) GANDHINAGAR | DRAWING TITLE |
| 01/12/18 | NTS | CONTROLLED BY | ITER INDIA (IPR) GANDHINAGAR | 6_3 INCH REDUCER FOR 1MHZ |
| SHEET SIZE | PT STATUS | DRAWN BY | ITER INDIA (IPR) GANDHINAGAR | DRAWING NUMBER |
| - | PT STATUS | AJAY VALA | ITER INDIA (IPR) GANDHINAGAR | II/ICH/6_3" REDUCER/1MHZ/00 |
| THIRD ANGLE PROJECTION | SCALE | PT STATUS | ITER INDIA (IPR) GANDHINAGAR | SHEET REVISION PR STATUS |
| 01 | PT STATUS | PT STATUS | ITER INDIA (IPR) GANDHINAGAR | 01 |
| 01 | PT STATUS | PT STATUS | ITER INDIA (IPR) GANDHINAGAR | 01 |

Spacereservation for the banner



Section view A-A
Scale: 1:2



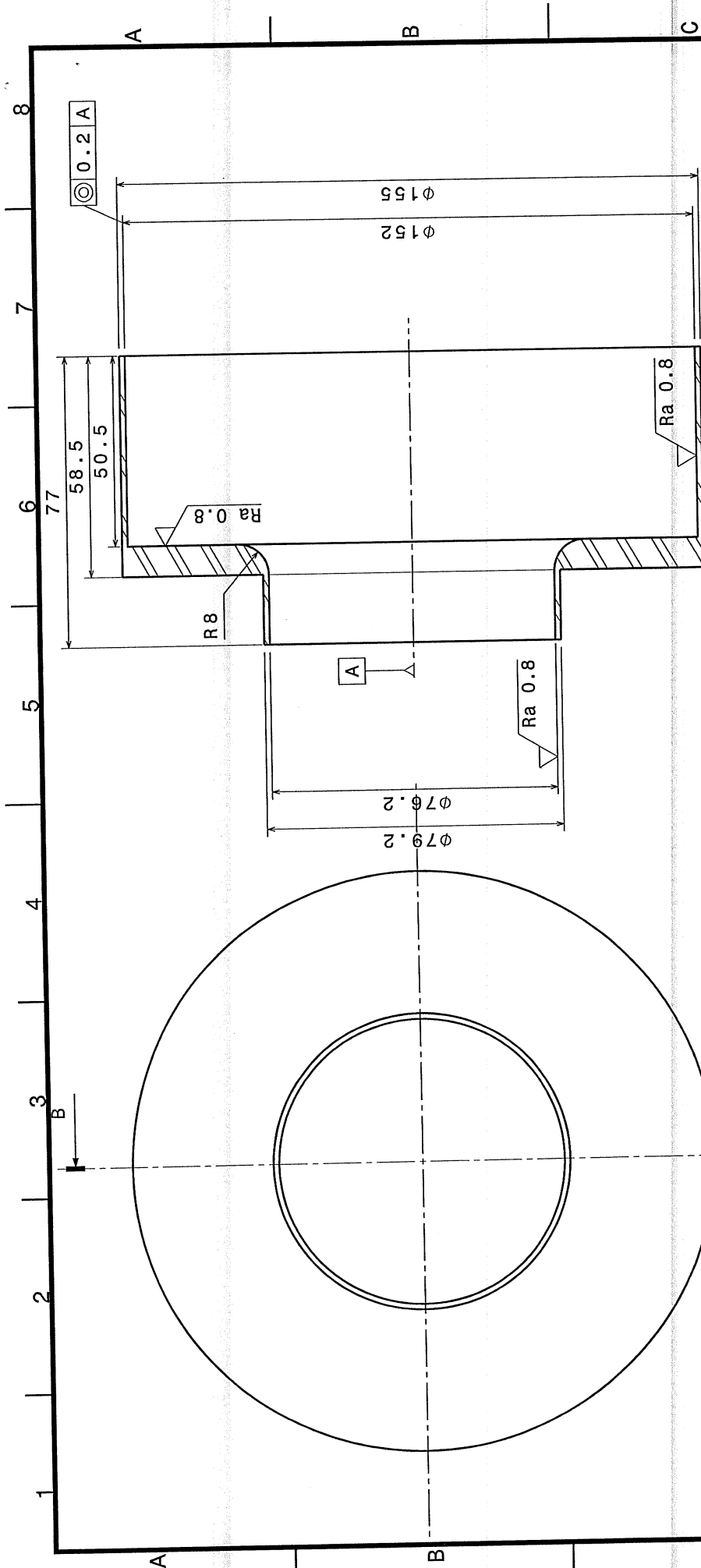
Front view
Scale: 1:2

| PART NO | PART NAME | DESCRIPTION / MATERIAL | QTY |
|---------|-----------------------------|------------------------|-----|
| 7 | 3 INCH O-RING | RUBBER SILICON | 1 |
| 6 | 3 INCH SWIVEL FLANGE PART-2 | BRASS (60:40) | 1 |
| 5 | 3 INCH SWIVEL FLANGE PART-1 | BRASS (60:40) | 1 |
| 4 | 6 INCH O-RING | RUBBER SILICON | 1 |
| 3 | 6 INCH SWIVEL FLANGE PART-2 | BRASS (60:40) | 1 |
| 2 | 6 INCH SWIVEL FLANGE PART-1 | BRASS (60:40) | 1 |
| 1 | OC | ETP COPPER | 1 |

| | | | | | |
|------------------------|--|--------------------------------|--|---|--|
| DRW DOC ID | | ITER INDIA (IPR) GANDHINAGAR | | | |
| LINKED EVS FT ID | | CONFIDENTIAL UNLESS AUTHORISED | | <p>The information on this drawing is confidential under the terms of the ITER India Agreement. Information is not authorized to be released to the public without the express written authorization of ITER-India.</p> | |
| PSS TITLE | | APPROVED BY | | DRAWING TITLE | |
| | | P. AJESH | | 6.3 INCH OC ASSEMBLY FOR 1MHZ | |
| | | CHECKED BY | | DRAWING NUMBER | |
| | | | | II/ICH/6_3 | |
| REV DATE | | CONTROLLED BY | | SHEET REVISION PR STATUS | |
| 01/12/18 | | AJAY VALA | | 01 | |
| SHEET SIZE | | DRAWN BY | | DRAWING NUMBER | |
| NTS | | AJAY VALA | | II/ICH/6_3 | |
| SCALE | | PSS 3 LEVELS | | REDUCER/1MHZ/01 | |
| PT MATURIT/PT VERSION | | NETO SIZE | | SHEET REVISION PR STATUS | |
| | | 08 | | 01 | |
| THIRD ANGLE PROJECTION | | PROJECTION | | SHEET REVISION PR STATUS | |
| | | | | 01 | |

Spacereservation for the banner

Spacereservation for the banner



Section view B-B
Scale: 1:1

MATERIAL: ETP COPPER
QUANTITY: 01

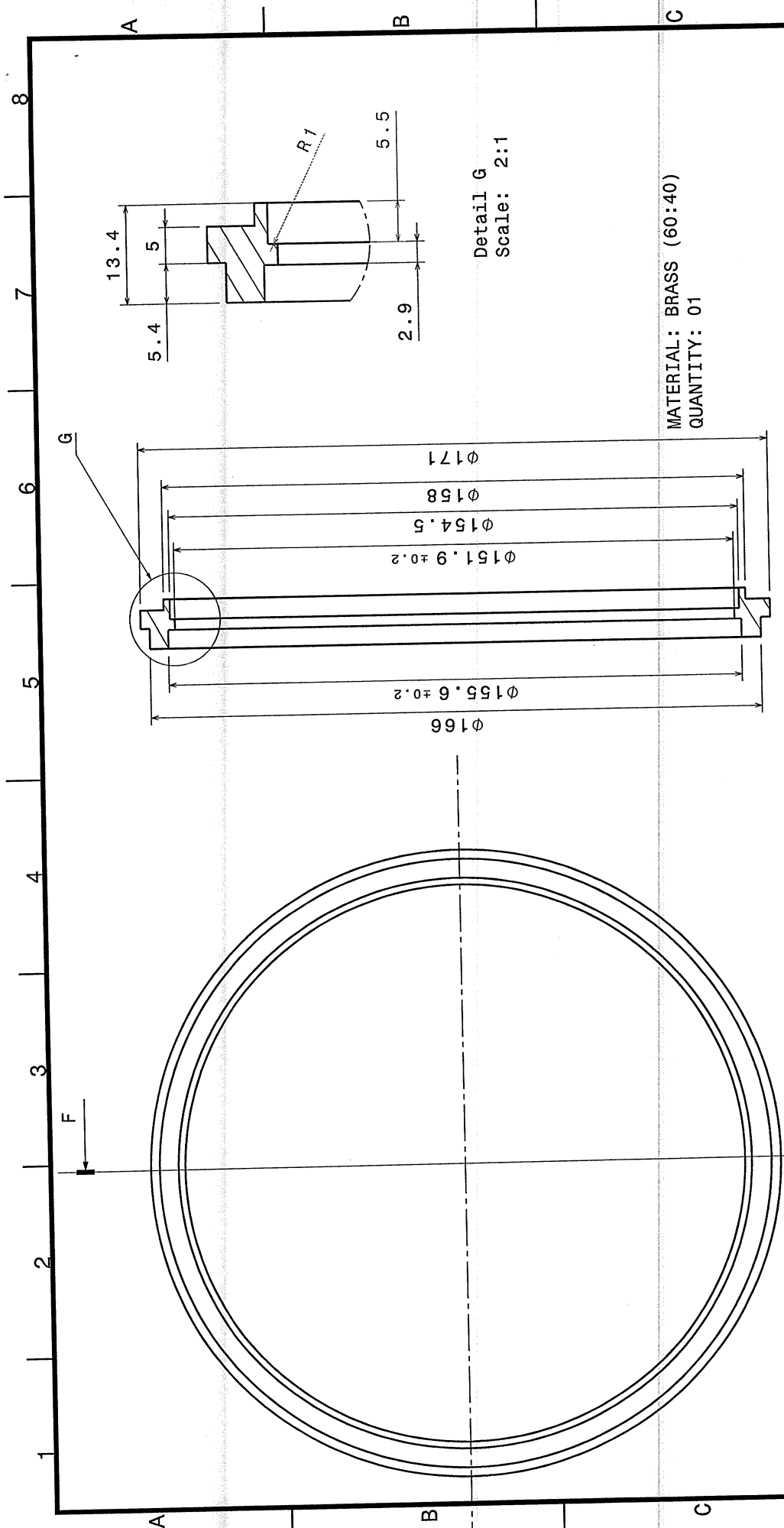
Front view
Scale: 1:1

- NOTE:
1. ALL THREADS SS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1×45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra $8_{\mu m}$
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

| | | | |
|------------------------|---------------|-------------------------------------|--|
| DRW DOC ID | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR | |
| LINKED EVD FT ID | APPROVED BY | CONFIDENTIAL UNLESS AUTHORIZED | |
| DRW TITLE | CHECKED BY | P. AJESH | The information on this drawing is confidential under the terms of the ITER India agreement. Information is not authorized to be released to the public without the express written approval of the ITER India Agency. |
| REV DATE | CONTROLLED BY | | ITER-India |
| 01/12/2018 | DRAWN BY | P. AJESH | DRAWING TITLE |
| SHEET SIZE | SCALE | NTS | OUTER CONDUCTOR |
| | PT STATUS | | 6-3 1/8 INCH REDUCER FOR 1MHZ |
| THIRD ANGLE PROJECTION | SCALE | PT STATUS | DRAWING NUMBER |
| | | | II/ICH/6_3" |
| | | | REDUCER/1MHZ/01 |
| | | | DRAWING NUMBER |
| | | | 02 |
| | | | SHEET REVISION DR STATUS |
| | | | 02 |

Spacereservation for the banner

Spacereservation for the banner



Section view F-F
Scale: 1:1

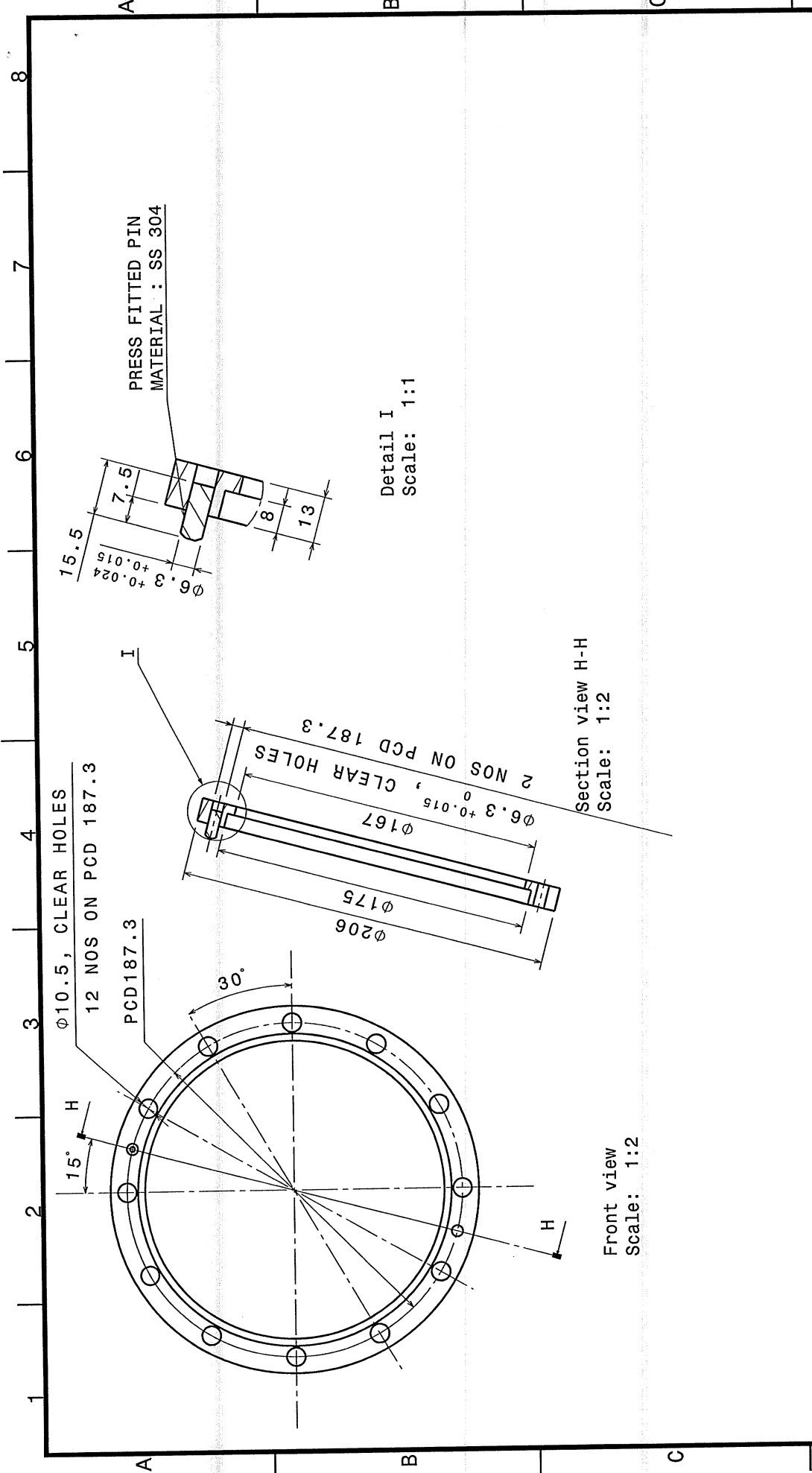
Front view
Scale: 1:1

MATERIAL: BRASS (60:40)
QUANTITY: 01

Detail G
Scale: 2:1

| | | | | | | | |
|------------------------|--|---------------|--|--|--|-------------------------|--|
| DRW DOC ID | | RELEASED BY | | ITER INDIA (IPR) GANDHINAGAR | | ITER-India | |
| LINKED BY PT ID | | APPROVED BY | | CONFIDENTIAL UNLESS AUTHORISED | | | |
| PSS TITLE | | P. AJESH | | The information on this drawing is confidential under the terms of the IPR admitted to anyone who is not authorized to receive it. | | | |
| REV DATE | | CHECKED BY | | DRAWING TITLE | | SHEET REVISION PR START | |
| 01/12/2018 | | P. AJESH | | 6" SWIVEL_FLANGE_PART-1 | | 03 | |
| SHEET SIZE | | CONTROLLED BY | | 6-3 1/8 INCH REDUCER | | REVISION NUMBER | |
| NTS | | DRAWN BY | | II/ICH/6_3" | | 03 | |
| SCALE | | P. AJESH | | REDUCER/1MHZ/01 | | 03 | |
| PT STATUS | | PSS 3 LEVELS | | DRAFTING TITLE | | SHEET REVISION PR START | |
| THIRD ANGLE PROJECTION | | VECTOR SHOWS | | 08 | | 03 | |

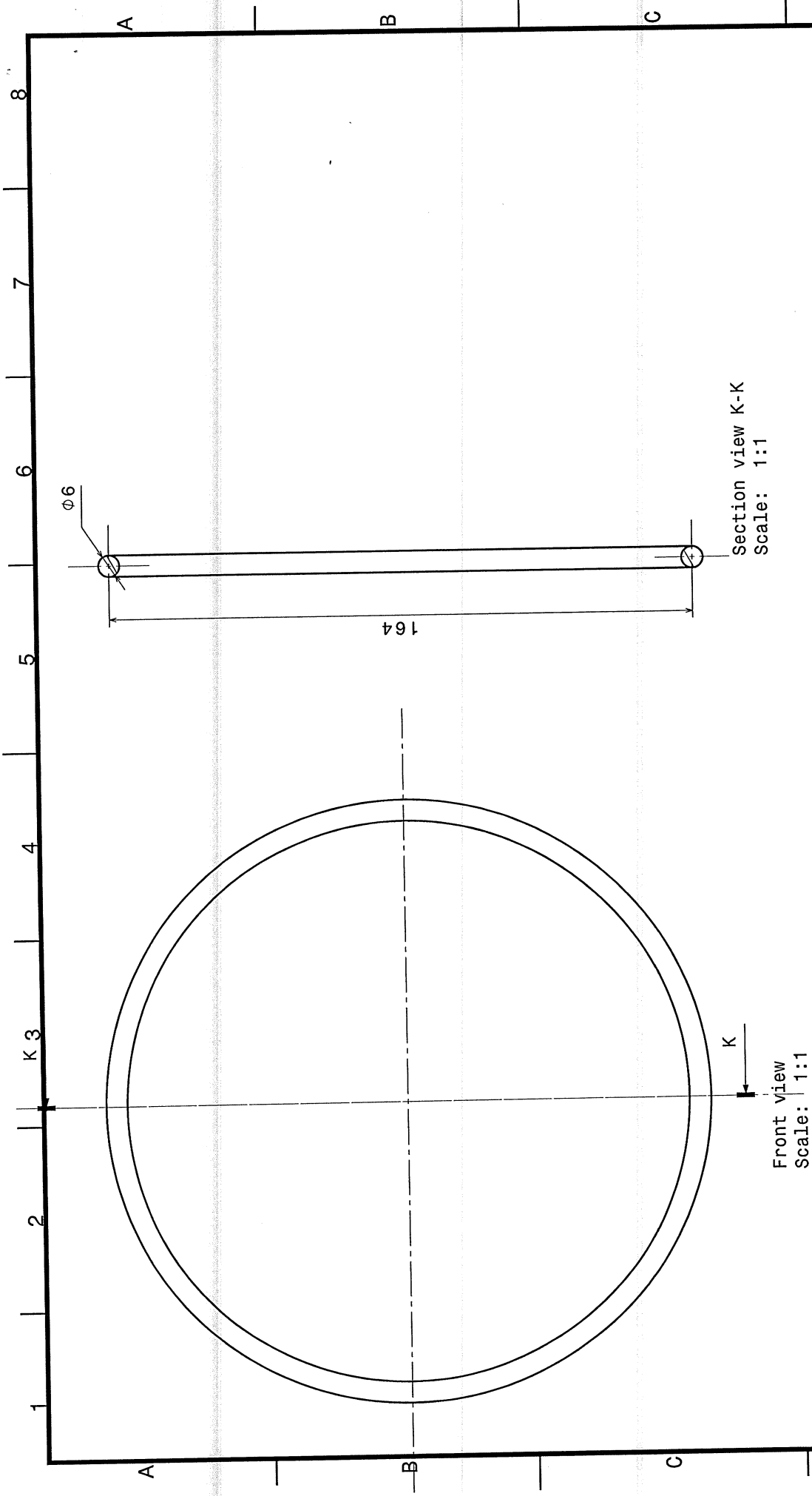
- NOTE:
1. ALL THREADS SS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989



MATERIAL: BRASS (60:40)
 QUANTITY: 01

- NOTE:
1. ALL THREADS SS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

| | | | | |
|------------------------|------------------|-----------|---------------|--|
| REV DATE | REV DESCRIPTION | SCALE | PT STATUS | NO OF SHTS |
| 01/12/2018 | | NTS | | 08 |
| THIRD ANGLE PROJECTION | | | | |
| DRW DOC ID | LINKED BVS PT ID | PBS TITLE | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR |
| | | | APPROVED BY | CONFIDENTIAL UNLESS AUTHORISED |
| | | | CHECKED BY | The information on this drawing is confidential and its disclosure without the written permission of ITER-India is not authorized to receive it. |
| | | | CONTROLLED BY | DRAWING TITLE |
| | | | DESIGN BY | 6" SWIVEL_FLANGE_PART-2 |
| | | | PBS 3 LEVELS | 6-3 1/8 INCH REDUCER |
| | | | | DRAWING NUMBER |
| | | | | II/ICH/6.3" |
| | | | | REDUCER/1MHZ/01 |
| | | | | SHEET REVISION OR SPAND |
| | | | | 04 |

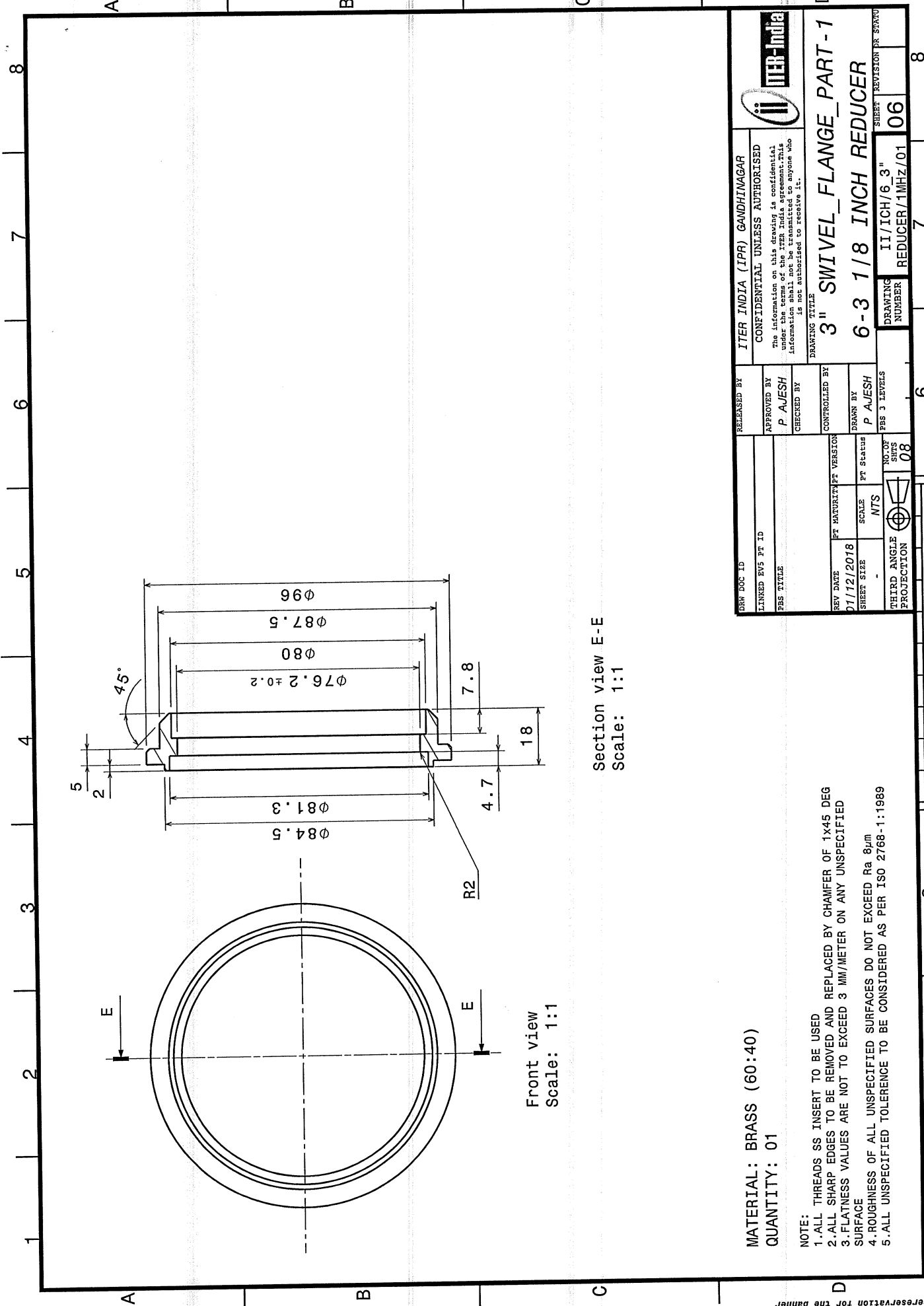


Section view K-K
Scale: 1:1

Front view
Scale: 1:1

MATERIAL: RUBBER SILICON
QUANTITY: 01

| | | | | | | | |
|-----------------|--|------------------------|--|--------------------------------|--|---|--|
| DRW DOC ID | | RELEASED BY | | ITER INDIA (IPR) GANDHINAGAR | | ITER-India | |
| LINKED BY PT ID | | APPROVED BY | | CONFIDENTIAL UNLESS AUTHORISED | | The information on this drawing is confidential under the provisions of the Information Act. This information shall not be transmitted to anyone who is not authorized to receive it. | |
| P/S TITLE | | P. AJESH | | CHECKED BY | | DRAWING TITLE | |
| REV DATE | | CONTROLLED BY | | 6 INCH O-RING | | SHEET REVISION PK SQRWD | |
| 01/12/2018 | | P. AJESH | | 6-3 1/8 INCH REDUCER | | 05 | |
| SHEET SIZE | | DRAWN BY | | II/ICH/6.3" | | NO. OF SHS | |
| - | | P. AJESH | | REDUCER/1MHZ/01 | | 08 | |
| SCALE | | FBS 3 LEVELS | | NO. OF SHS | | 08 | |
| NTS | | THIRD ANGLE PROJECTION | | NO. OF SHS | | 08 | |



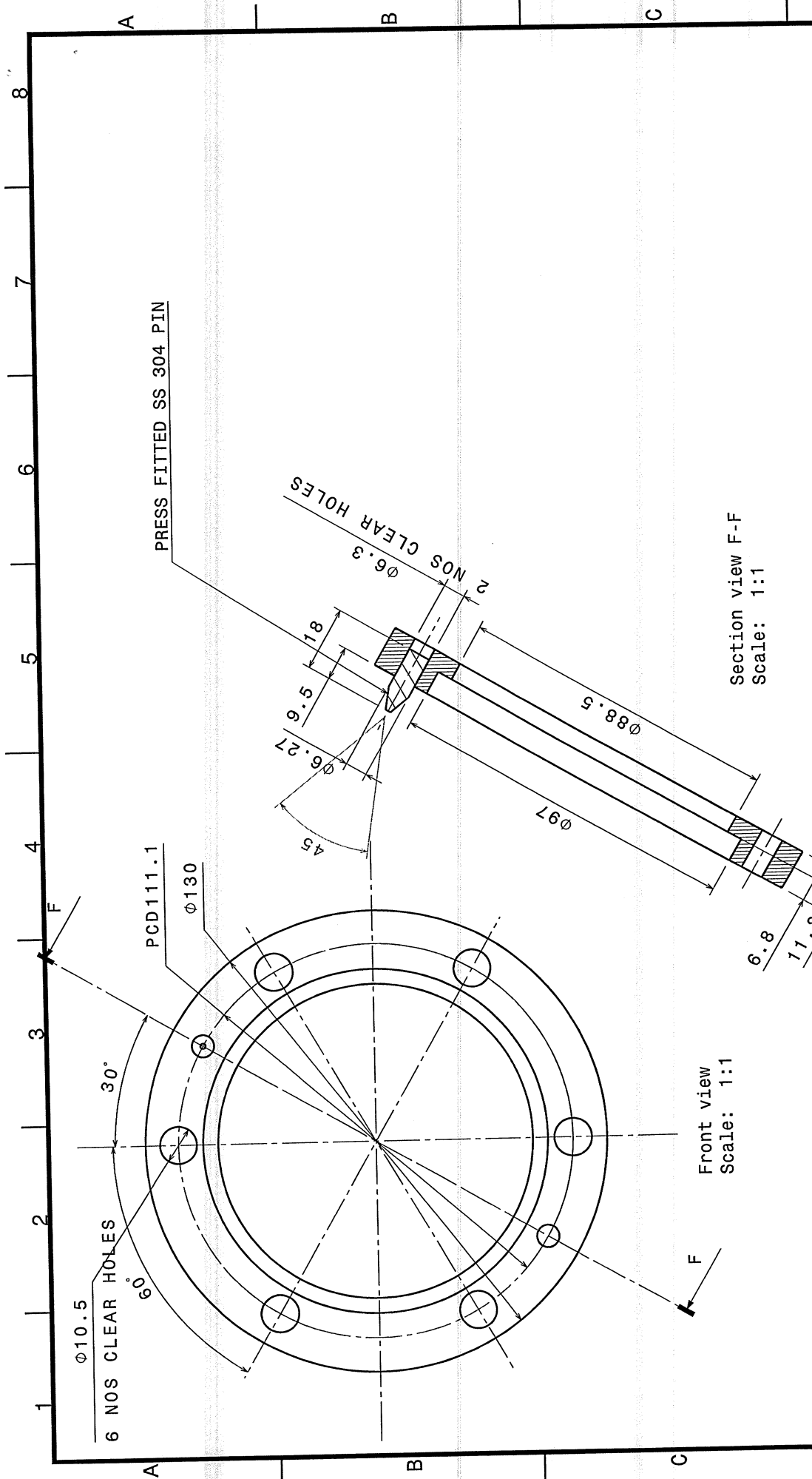
Front view
Scale: 1:1

Section view E-E
Scale: 1:1

MATERIAL: BRASS (60:40)
QUANTITY: 01

- NOTE:
1. ALL THREADS SS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

| | | | | | |
|------------------|--|--------------------------------|--|---|--|
| DRAW DOC ID | | ITER INDIA (IPR) GANDHINAGAR | | ITER-India | |
| LINKED B15 PT ID | | CONFIDENTIAL UNLESS AUTHORISED | | The information on this drawing is confidential and shall not be transmitted to anyone who is not authorized to receive it. | |
| PDS TITLE | | APPROVED BY | | DRAWING TITLE | |
| | | P AJESH | | 3" SWIVEL_FLANGE_PART-1 | |
| | | CHECKED BY | | 6-3 1/8 INCH REDUCER | |
| | | CONTROLLED BY | | DRAWING NUMBER | |
| | | DRAWN BY | | II/ICH/6.3" | |
| | | P AJESH | | REDUCER/1MHZ/01 | |
| | | FBS 3 LEVELS | | SHEET REVISION PR SPORD | |
| REV DATE | | REV DATE | | NO. OF SHTS | |
| 01/12/2018 | | 01/12/2018 | | 08 | |
| SHEET SIZE | | SCALE | | PROJECTION | |
| - | | NTS | | FIRST ANGLE | |
| | | | | | |



MATERIAL: BRASS (60:40)
 QUANTITY: 01

- NOTE:
1. ALL THREADS SS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

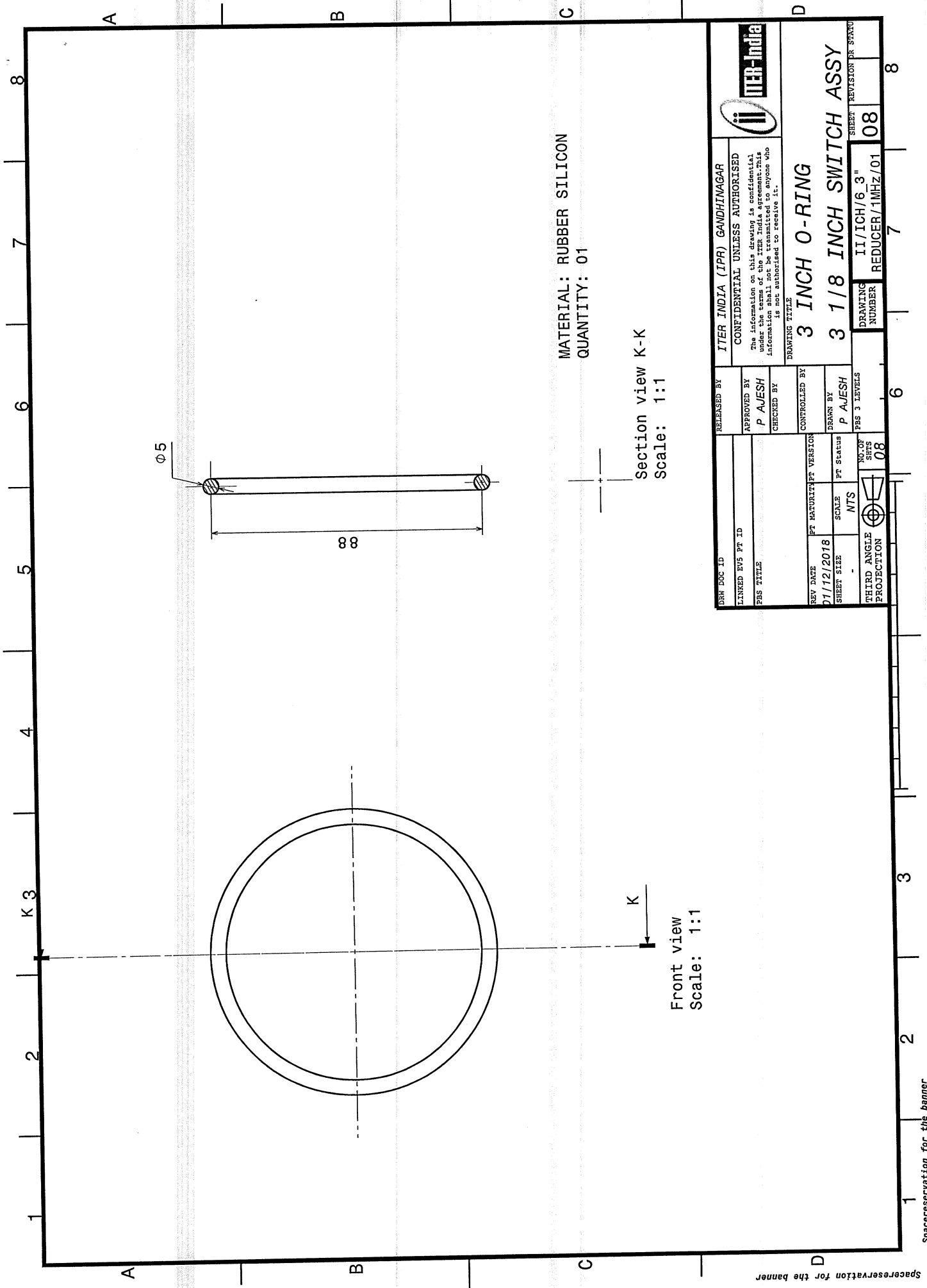
Front view
 Scale: 1:1

Section view F-F
 Scale: 1:1

Space reservation for the banner

| | | | | | |
|---|---|--------------|---|---|-------------------------------|
| DRW DOC ID LINKED EVS FT ID PDS TITLE | RELEASED BY APPROVED BY CHECKED BY | | | IITER INDIA (IPR) GANDHIMAGAR CONFIDENTIAL UNLESS AUTHORISED The information on this drawing is confidential under the terms of the IPR attached to anyone who is not authorised to receive it. | |
| | CONTROLLED BY DRAWN BY PDS 3 LEVELS | | | | |
| REV DATE 01/12/2018 | FT MATURATION FT VERSION | SCALE NTS | FT STATUS P AJESH | DRAWING NUMBER 6-3 1/8 INCH REDUCER | SHEET REVISION PR SRVNU 07 |
| THIRD ANGLE PROJECTION | | MOTOR 08 | DRAWING TITLE 3" SWIVEL FLANGE PART -2 | DRAWING NUMBER 6-3 1/8 INCH REDUCER | SHEET REVISION PR SRVNU 07 |

Space reservation for the banner



MATERIAL: RUBBER SILICON
 QUANTITY: 01

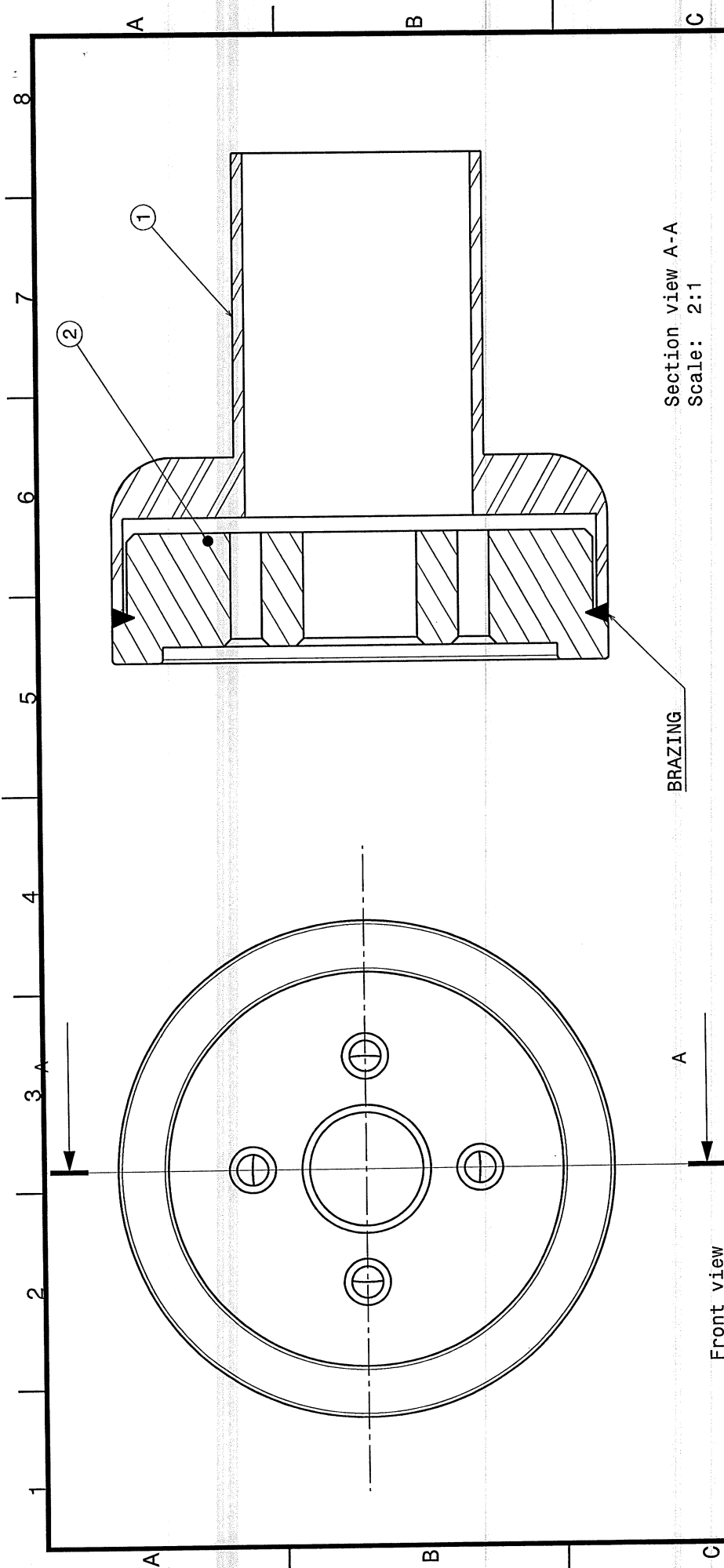
Section view K-K
 Scale: 1:1

Front view
 Scale: 1:1

| | | | | |
|------------------------|------------------------|--------------------------------|---|--------------------------|
| DRW DOC ID | LINKED EVS PT ID | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR | |
| PBS TITLE | APPROVED BY | CONFIDENTIAL UNLESS AUTHORISED | The information on this drawing is confidential under the terms of the terms and conditions of the contract. Information is not to be disseminated to anyone who is not authorized to receive it. | |
| REV DATE | PT MANUFACTURE VERSION | CONTROLLED BY | | DRAWING TITLE |
| 01/12/2018 | | DRAWN BY | | 3 INCH O-RING |
| SHEET SIZE | SCALE | CHECKED BY | | 3 1/8 INCH SWITCH ASSY |
| | NTS | ITER INDIA (IPR) GANDHINAGAR | | DRAWING NUMBER |
| THIRD ANGLE PROJECTION | NO. OF SHOTS | | | II/ICH/6_3 |
| | 08 | | | REDUCER/1MHZ/01 |
| | | | | SHEET REVISION PR STATUS |
| | | | | 08 |

Spacreservation for the banner

Spacreservation for the banner



Section view A-A
Scale: 2:1

BRAZING

Front view
Scale: 2:1

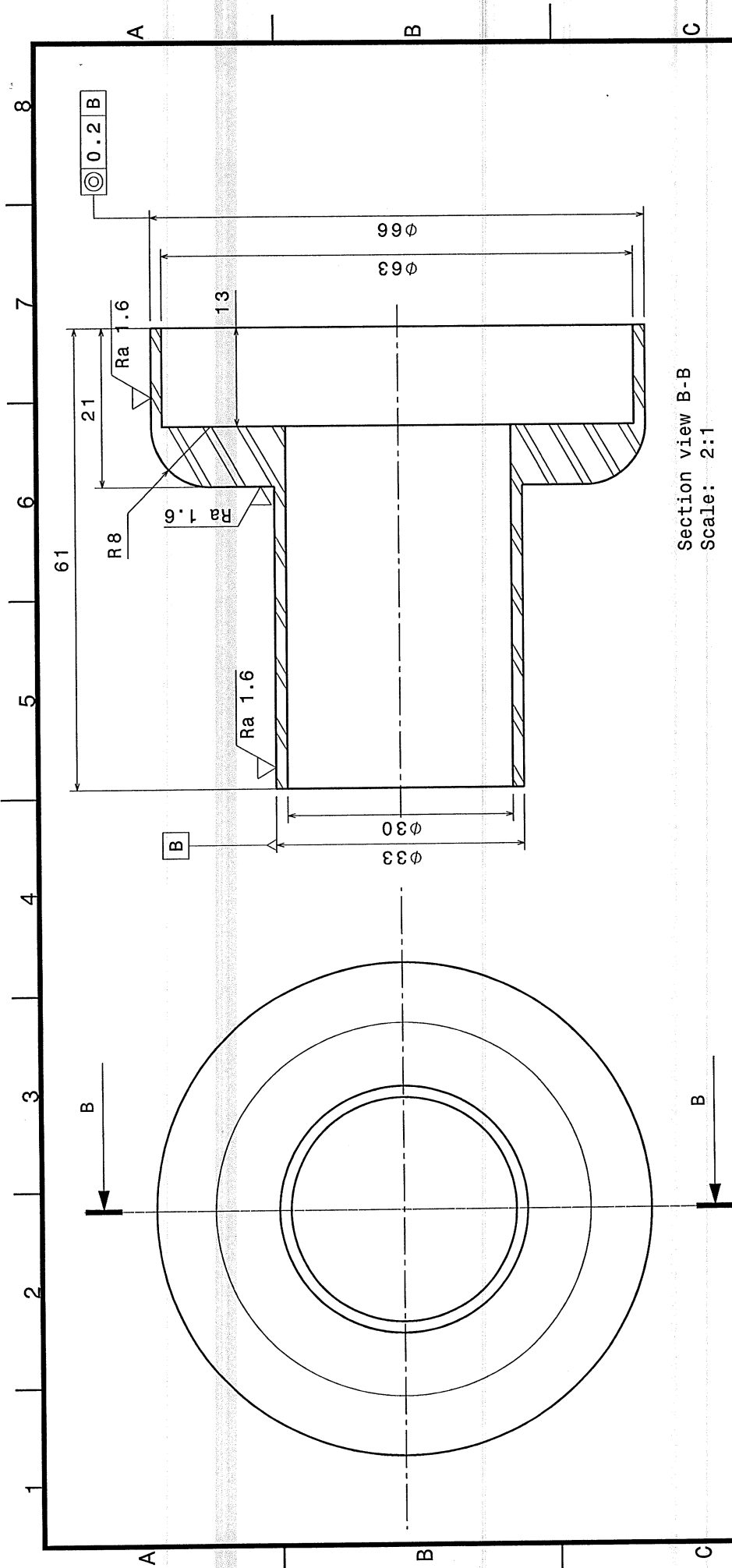
Spacereservation for the banner

| | | | |
|----------------|------------------|-------------------------------|------------|
| 2 | 6 INCH BUSH | BRASS (60:40) | 1 |
| 1 | IC | ETP COPPER | 1 |
| PART NO | PART NAME | DESCRIPTION / MATERIAL | QTY |

| | | | |
|-------------------|---|------------------------|--------------------------------|
| ITER-India | ITER INDIA (IPR) GANDHINAGAR | RELEASED BY | CONFIDENTIAL UNLESS AUTHORISED |
| | The information on this drawing is confidential under the terms of the IPR and is to be controlled and disseminated only to those employees who are authorized to receive it. | APPROVED BY | |
| | | P. AJESH | |
| | | CHECKED BY | |
| | | CONTROLLED BY | |
| | | DESIGN BY | |
| | | AJAY VALA | |
| | | FPS 3 LEVELS | |
| DRW DOC ID | | REV DATE | PT MATURITY/PT VERSION |
| LINKED ENVS PT ID | | 01/12/18 | |
| PBS TITLE | | SCALE | PT STATUS |
| | | NTS | |
| | | THIRD ANGLE PROJECTION | NO. OF SHEETS |
| | | | 03 |
| | | DRAWING NUMBER | SHEET REVISION OR STATUS |
| | | II/IC/6.3" | 01 |
| | | REDUCER/1MHZ/02 | |
| | | | |

6.3 INCH IC ASSEMBLY
FOR 1MHZ

Spacereservation for the banner



Front view
Scale: 2:1

Section view B-B
Scale: 2:1

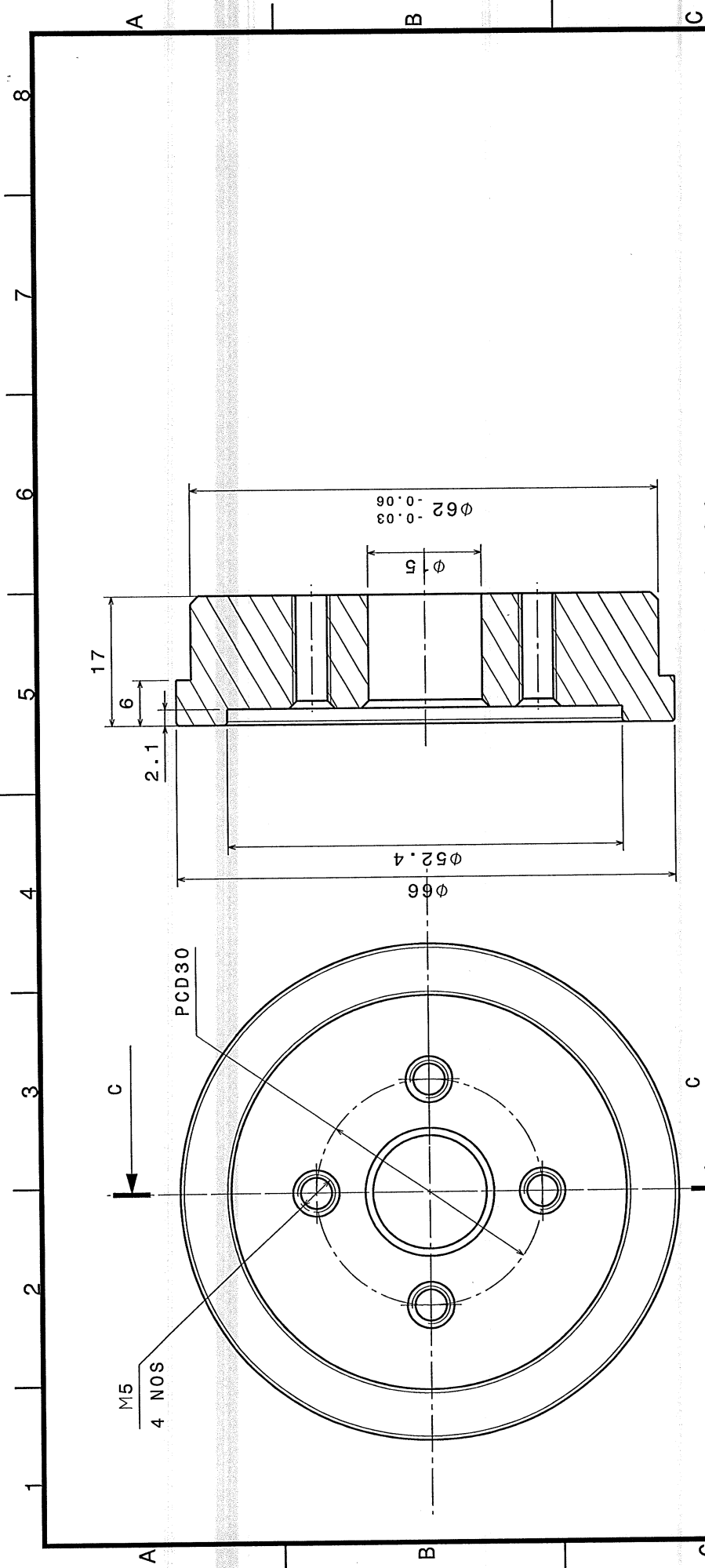
- NOTE:
1. ALL THREADS SS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

| | | | | |
|------------------------|------------------------|---------------|--------------------------------|---|
| REV DATE | PT MATURITY/PT VERSION | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR | |
| 01/12/2018 | | APPROVED BY | CONFIDENTIAL UNLESS AUTHORIZED | |
| SHEET SIZE | SCALE | PT STATUS | | The information on this drawing is confidential under the terms of the ITER-India Agreement. This information is not to be disseminated to anyone who is not authorized to receive it. DRAWING TITLE |
| | NTS | | | |
| THIRD ANGLE PROJECTION | NO. OF SHEETS | CONTROLLED BY | | INNER CONDUCTOR 6- 3 1/8 INCH REDUCER FOR 1MHZ |
| | 03 | DESIGN BY | P AJESH | |
| | | CHECKED BY | | DRAWING NUMBER II/ICH/6_3" REDUCER/1MHZ/02 |
| | | | | |
| | | | | SHEET REVISION PR STATUS 02 |

MATERIAL: ETP COPPER
QUANTITY: 01

Spacereservation for the banner

Spacereservation for the banner



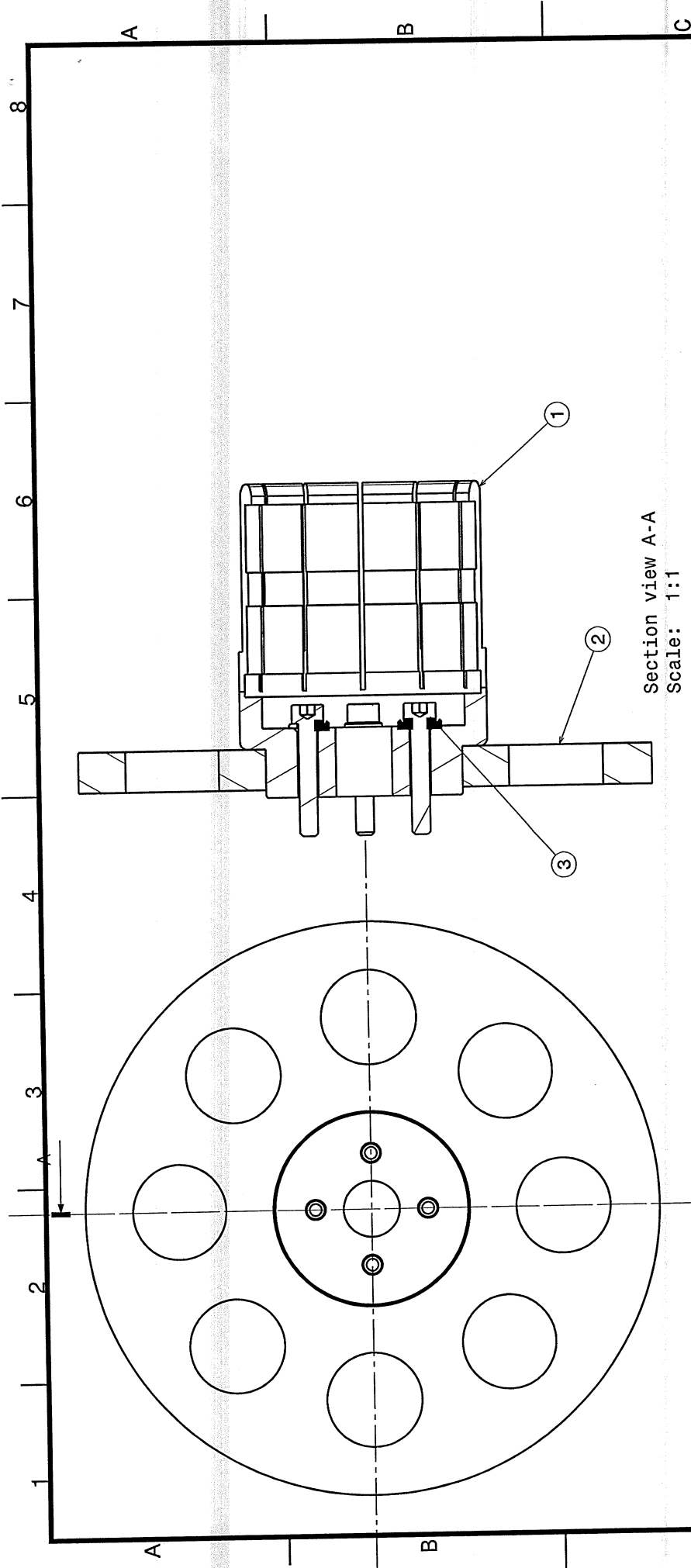
Front view
Scale: 2:1

Section view C-C
Scale: 2:1

MATERIAL: BRASS (60:40)
QUANTITY: 01

NOTE:
1. ALL THREADS SS INSERT TO BE USED
2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1X45 DEG
3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

| | | | | |
|------------------------|------------------------|--------------------------------|--|------------|
| DRW DOC ID | LINKED EWS PT ID | RELEASED BY | ITER INDIA (IPR) GANDHIMAGAR | ITER-India |
| PBS TITLE | APPROVED BY | CONFIDENTIAL UNLESS AUTHORISED | The Information on this drawing is confidential and its disclosure shall not be transmitted to anyone who is not authorized to receive it. | |
| REV DATE | PT MATURITY/PT VERSION | CONTROLLED BY | DRAWING TITLE | |
| 01/12/2018 | | DRWN BY | 6" BUSH | |
| SHEET SIZE | SCALE | CHECKED BY | 6-3 1/8 INCH REDUCER FOR 1MHZ | |
| | NTS | DRWN BY | SHEET REVISION DR STATUS | |
| THIRD ANGLE PROJECTION | NO. OF SHTS | PBS 3 LEVELS | 03 | |
| | | | II/1CH/6_3" REDUCER/1MHZ/02 | |

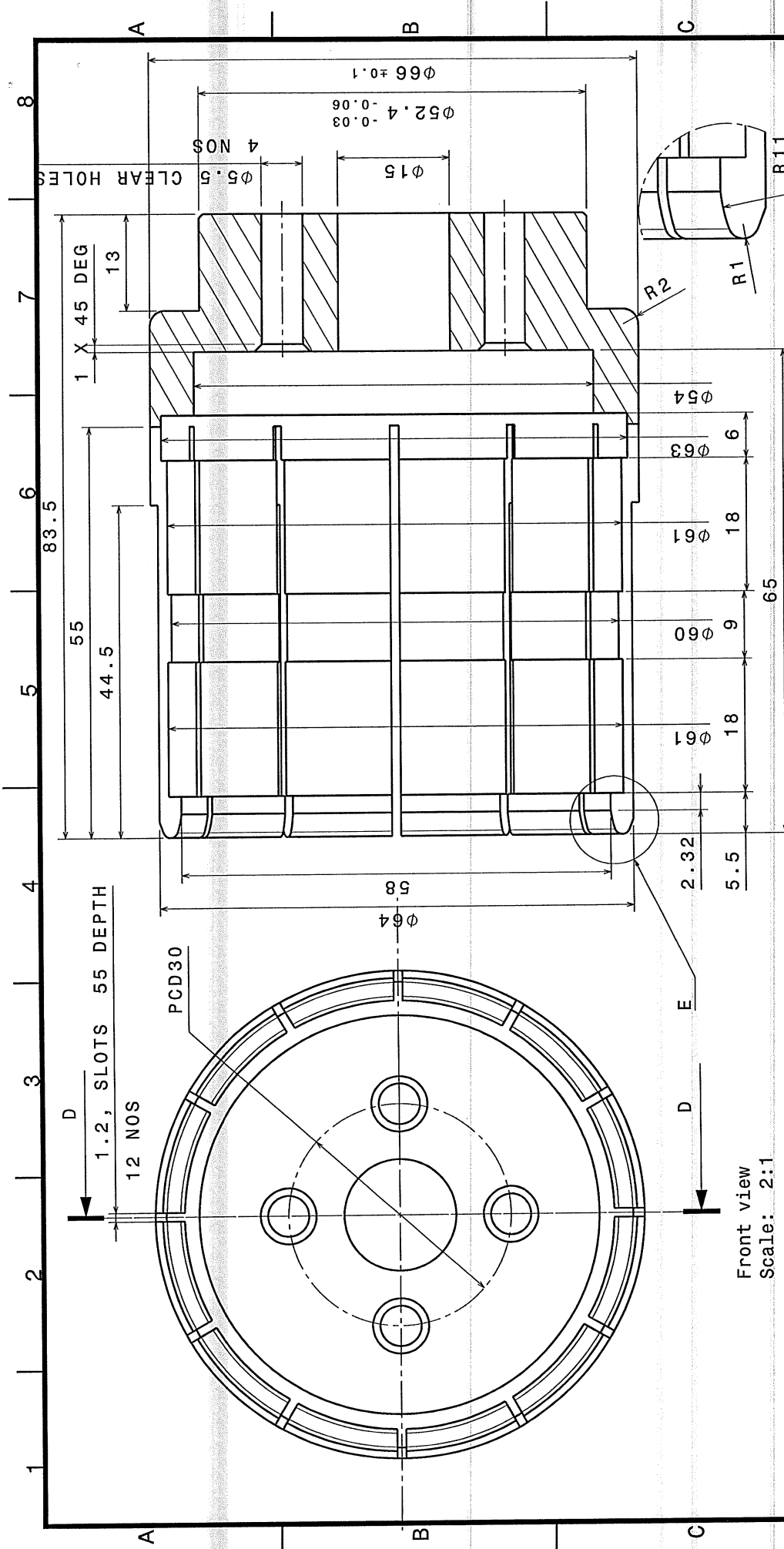


Section view A-A
Scale: 1:1

Front view
Scale: 1:1

| 3 | SCREW M5 X 30L WITH | SS 304 | 4 |
|---------|---------------------|----------------------|-----|
| 2 | WASHER | TEFLON | 1 |
| 1 | TEFLON DISK | BRASS (60:40) | 1 |
| | BULLET-2 | | |
| PART NO | PART NAME | DESCRIPTION/MATERIAL | QTY |

| | | | |
|---|------------------------|----------------------|--------------------------|
| ITER INDIA (IPR) GANDHINAGAR | | | |
| CONFIDENTIAL UNLESS AUTHORISED | | | |
| The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be transmitted to anyone who is not authorized to receive it. | | | |
| RELEASED BY | APPROVED BY | DRAWING TITLE | |
| | P AJESH | 6" IC JOINT ASSY | |
| CHECKED BY | CONTROLLED BY | DRAWING NUMBER | SHEET REVISION PR STATUS |
| | | 6-3 1/8 INCH REDUCER | 01 |
| REV DATE | PT MATURITY/PT VERSION | DRAWING NUMBER | |
| 01/12/2018 | | II/ICH/6_3" | |
| SHEET SIZE | SCALE | REDUCER/1MHZ/03 | |
| | NTS | 01 | |
| THIRD ANGLE PROJECTION | NO. OF SHYS | 03 | |



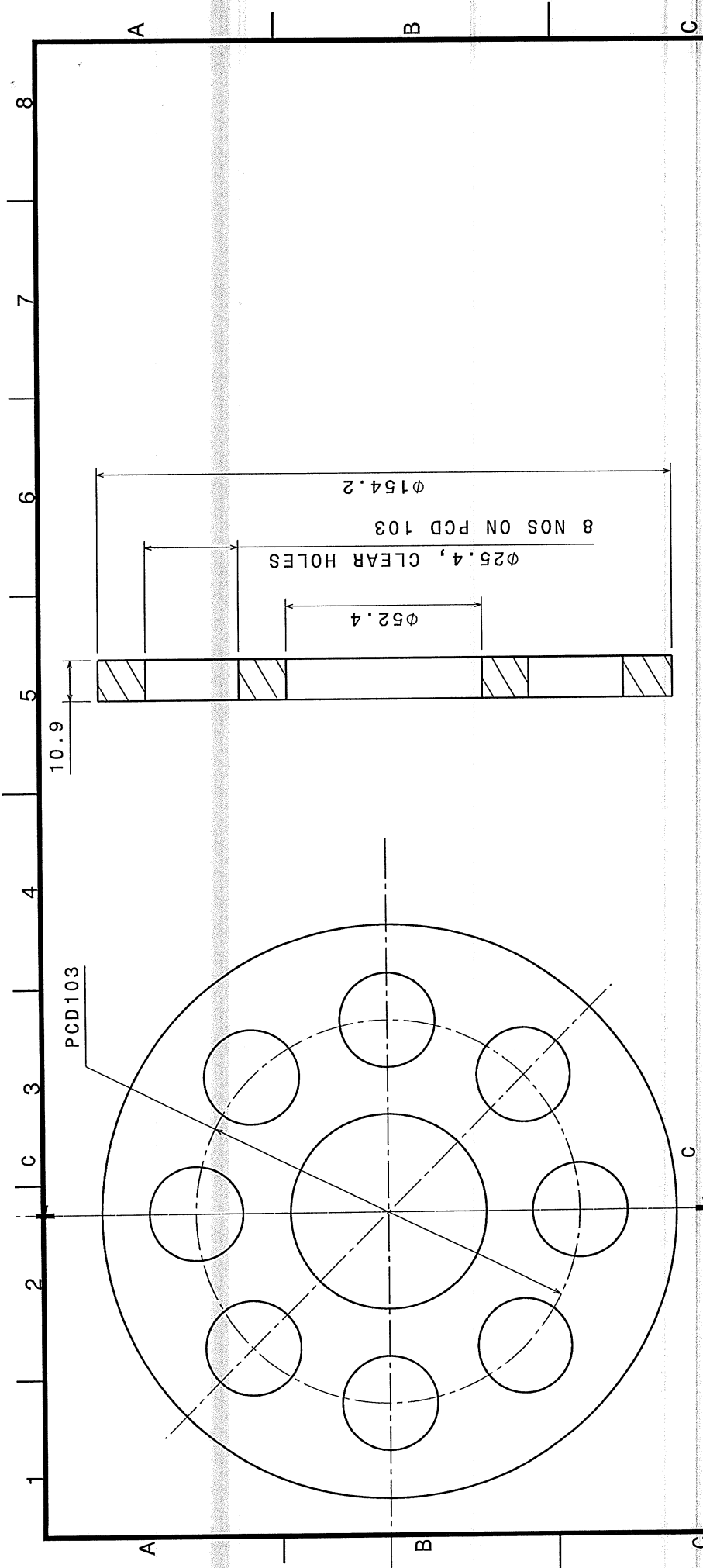
Section view D-D
Scale: 2:1

Detail E
Scale: 4:1

MATERIAL: BRASS (60:40)
QUANTITY: 01

- NOTE:
1. ALL THREADS SS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989
 6. FULL BODY SILVER PLATING TO BE DONE OF 30 MICRON THICKNESS

| | | | |
|--------------------------------------|------------------------|--|--|
| DRAWING TITLE BULLET - 2 | | RELEASED BY ITER INDIA (IPR) GANDHIMAGAR | |
| THIRD ANGLE PROJECTION | | APPROVED BY P. AJESH | |
| REV DATE 01/09/2017 | PT MATURITY/PT VERSION | CHECKED BY | |
| SHEET SIZE | SCALE NTS | CONTROLLED BY | |
| NO. OF SETS 03 | PT STATUS | DRAWN BY P. AJESH | |
| NO. OF SETS 03 | | PBS 3 LEVELS | |
| DRAWING NUMBER II/TCH/6.3" | | SHEET REVISION OR ERROR 02 | |
| REDUCER/1MMHz/03 | | | |



Section view C-C
Scale: 1:1

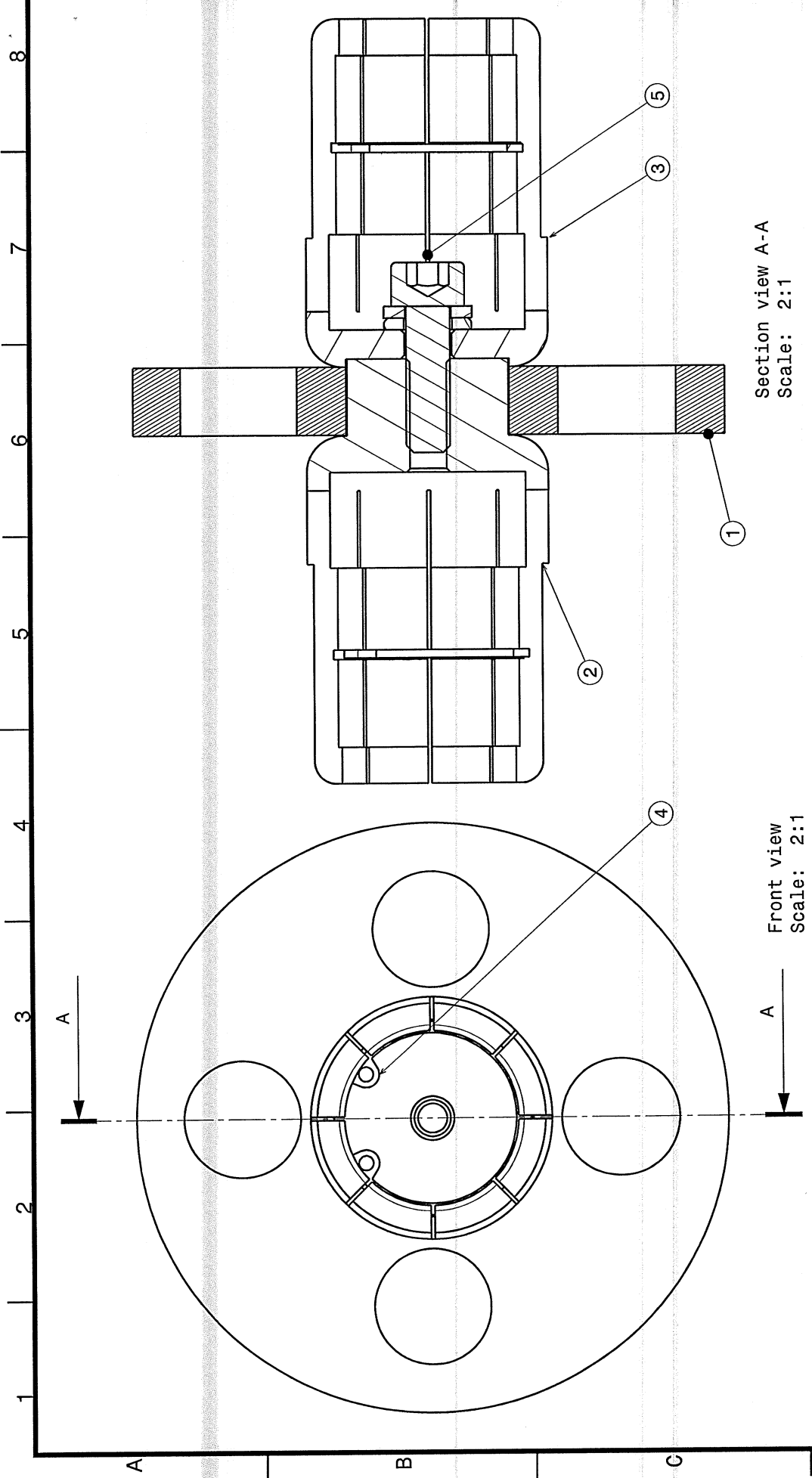
Front View
Scale: 1:1

MATERIAL: TEFLON ROD PTFE ASTM D1710-8, 11B/ TEFLON PLATE PTFE ASTM D3294-03, 11A
QUANTITY: 01

| | | | |
|---|----------------|---------------------------------------|----------------|
| ITER India | | ITER INDIA (IPR) GANDHIMAGAR | |
| CONFIDENTIAL UNLESS AUTHORIZED The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be transmitted to anyone who is not authorized to receive it. | | | |
| DRAWING TITLE TEFLON DISK | | | |
| DRAWING NUMBER 6-3 1/8 INCH REDUCER | | SHEET REVISION OR SECOND 03 | |
| RELEASED BY | APPROVED BY | CONTROLLED BY | DRAWN BY |
| | P AJESH | | P AJESH |
| CHECKED BY | PBS 3 LEVELS | | NO. OF SETS |
| | | | 03 |
| REV DATE | PT MATURITY | PT VERSION | PT STATUS |
| 01/12/2018 | | | |
| SHEET SIZE | SCALE | NTS | |
| | | | |
| THIRD ANGLE PROJECTION | | | |

Spacreservation for the banner

Spacreservation for the banner



Section view A-A
Scale: 2:1

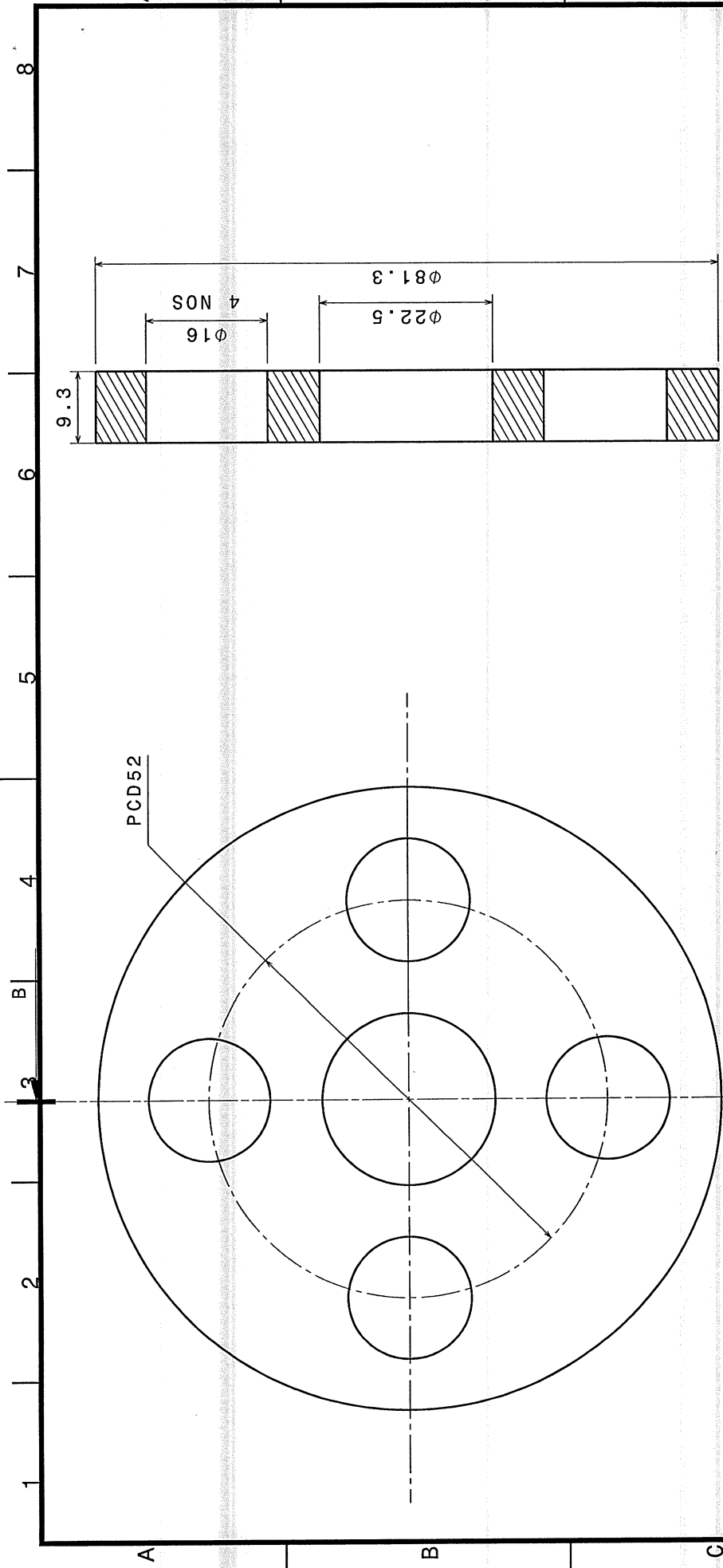
Front view
Scale: 2:1

| PART NO | PART NAME | DESCRIPTION / MATERIAL | QTY |
|---------|-----------------------------|------------------------|-----|
| 5 | M6X25L CAP SCREW AND WASHER | SS 304 | 4 |
| 4 | CIRCLEEP | SS 304 | 2 |
| 3 | IC JOINT FEMALE | BRASS 60:40 | 1 |
| 2 | IC JOINT MALE | BRASS 60:40 | 1 |
| 1 | TEFLON DISK | TEFLON | 1 |

| | | |
|--|---|--------------------------|
| REV DATE 01/12/18 | REV DESCRIPTION PT MATURITY/PT VERSION | NO. OF SETS 05 |
| SHEET SIZE - | SCALE NTS | THIRD ANGLE PROJECTION |
| RELEASED BY ITER INDIA (IPR) GANDHINAGAR | APPROVED BY P AJESH | CONTROLLED BY P AJESH |
| <p>CONFIDENTIAL UNLESS AUTHORIZED</p> <p>The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be transmitted to anyone who is not authorized to receive it.</p> | | |
| <p>ITER-India</p> | | |
| <p>DRAWING TITLE 3-1/8" INCH IC JOINT ASSEMBLY</p> | | |
| <p>DRAWING NUMBER REDUCER/04</p> | | |
| <p>SHEET REVISION OR SUPPLY 01</p> | | |

Spacereservation for the banner

Spacereservation for the banner



Section view B-B
Scale: 2:1

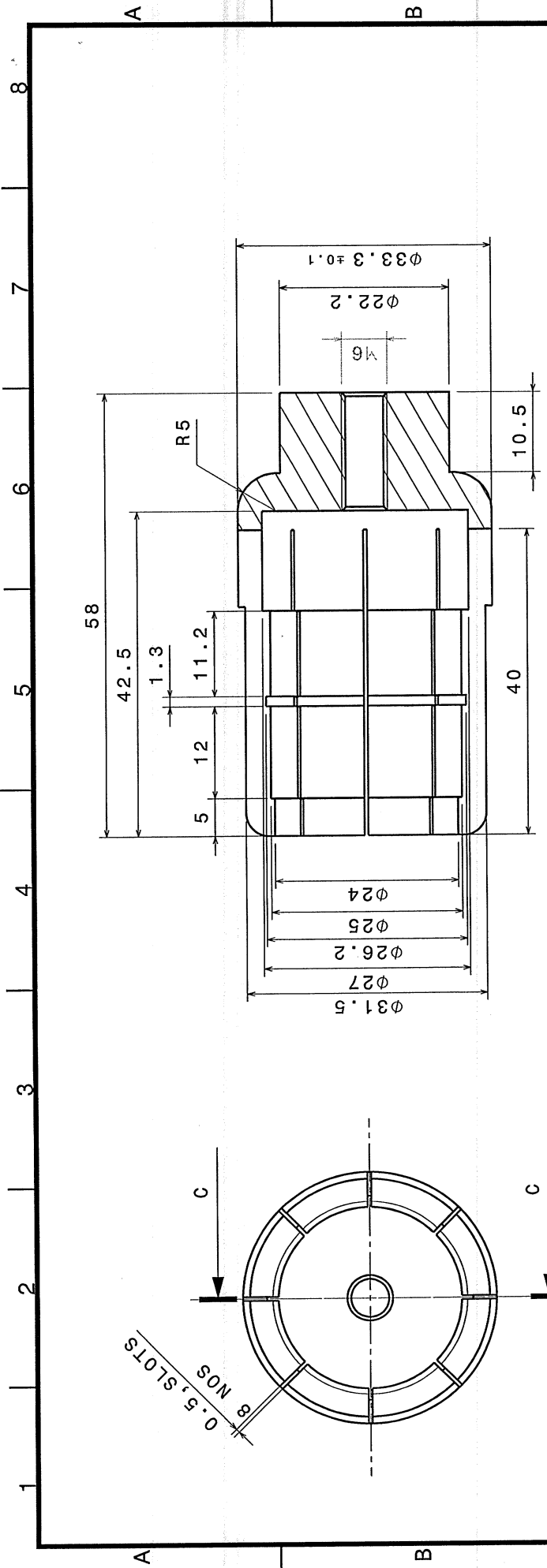
Front view
Scale: 2:1

MATERIAL: TEFLON ROD PTFE ASTM D1710-8, 11B/ TEFLON PLATE PTFE ASTM D3294-03, 11A
QTY: 01

| | | | |
|---|-------------|----------------------------|------------|
| ITER INDIA (IPR) GANDHINAGAR | | | |
| CONFIDENTIAL UNLESS AUTHORISED | | | |
| The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be transmitted to anyone who is not authorised to receive it. | | | |
| DRAWING TITLE | | | |
| TEFLON DISK | | 3-1/8" IC JOINT ASSEMBLY | |
| DRAWING NUMBER | | SUBREV. REVISION OR STATUS | |
| II/IC/6.3" | | 02 | |
| REDUCER/04 | | | |
| RELEASED BY | APPROVED BY | CONTROLLED BY | DRAWN BY |
| | P AJESH | | P AJESH |
| CHECKED BY | | | |
| | | | |
| REV DATE | PT MATURITY | PT VERSION | NO. OF SPS |
| 01/12/18 | | | 05 |
| SHEET SIZE | SCALE | PT STATUS | |
| | NTS | | |
| THIRD ANGLE PROJECTION | | | |

Spacereservation for the banner

Spacereservation for the banner



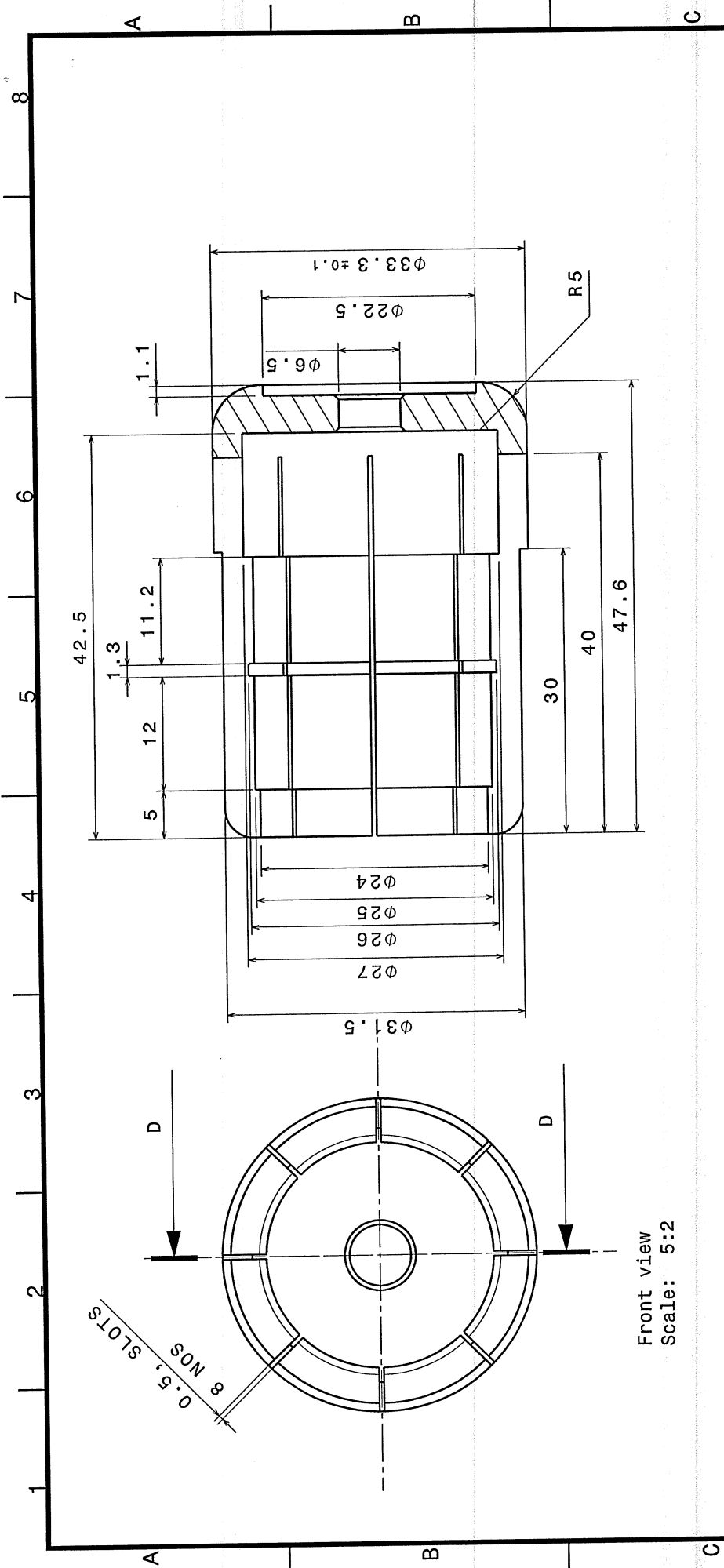
Section view C-C
Scale: 2:1

Front view
Scale: 2:1

MATERIAL : BRASS (60:40)
QTY: 01

- NOTE:
1. ALL THREADS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989
 6. AFTER FINGER CONTACT SOLDERING FULL BODY SLIVER PLATING TO BE DONE FOR 30µ

| | | | |
|---|--|---|--|
| ITER-India | | ITER INDIA (IPR) GANDHINAGAR | |
| CONFIDENTIAL UNLESS AUTHORIZED | | CONFIDENTIAL UNLESS AUTHORIZED | |
| The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be transmitted to anyone who is not authorized to receive it. | | The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be transmitted to anyone who is not authorized to receive it. | |
| DRAWING TITLE | | DRAWING TITLE | |
| IC JOINT MALE | | IC JOINT MALE | |
| 3-1/8" IC JOINT ASSEMBLY | | 3-1/8" IC JOINT ASSEMBLY | |
| SUBSET REVISION NO. 03 | | SUBSET REVISION NO. 03 | |
| DRAWING NUMBER II/1CH/6.3" REDUCER/04 | | DRAWING NUMBER II/1CH/6.3" REDUCER/04 | |
| PES 3 LEVELS | | PES 3 LEVELS | |
| RELEASED BY | | RELEASED BY | |
| ITER INDIA (IPR) GANDHINAGAR | | ITER INDIA (IPR) GANDHINAGAR | |
| APPROVED BY | | APPROVED BY | |
| P. AJESH | | P. AJESH | |
| CHECKED BY | | CHECKED BY | |
| P. AJESH | | P. AJESH | |
| CONTROLLED BY | | CONTROLLED BY | |
| P. AJESH | | P. AJESH | |
| DRAWN BY | | DRAWN BY | |
| P. AJESH | | P. AJESH | |
| REV DATE | | REV DATE | |
| 01/12/18 | | 01/12/18 | |
| SHEET SIZE | | SHEET SIZE | |
| NTS | | NTS | |
| SCALE | | SCALE | |
| PT STATUS | | PT STATUS | |
| NO. OF SPTS | | NO. OF SPTS | |
| 05 | | 05 | |
| THIRD ANGLE PROJECTION | | THIRD ANGLE PROJECTION | |



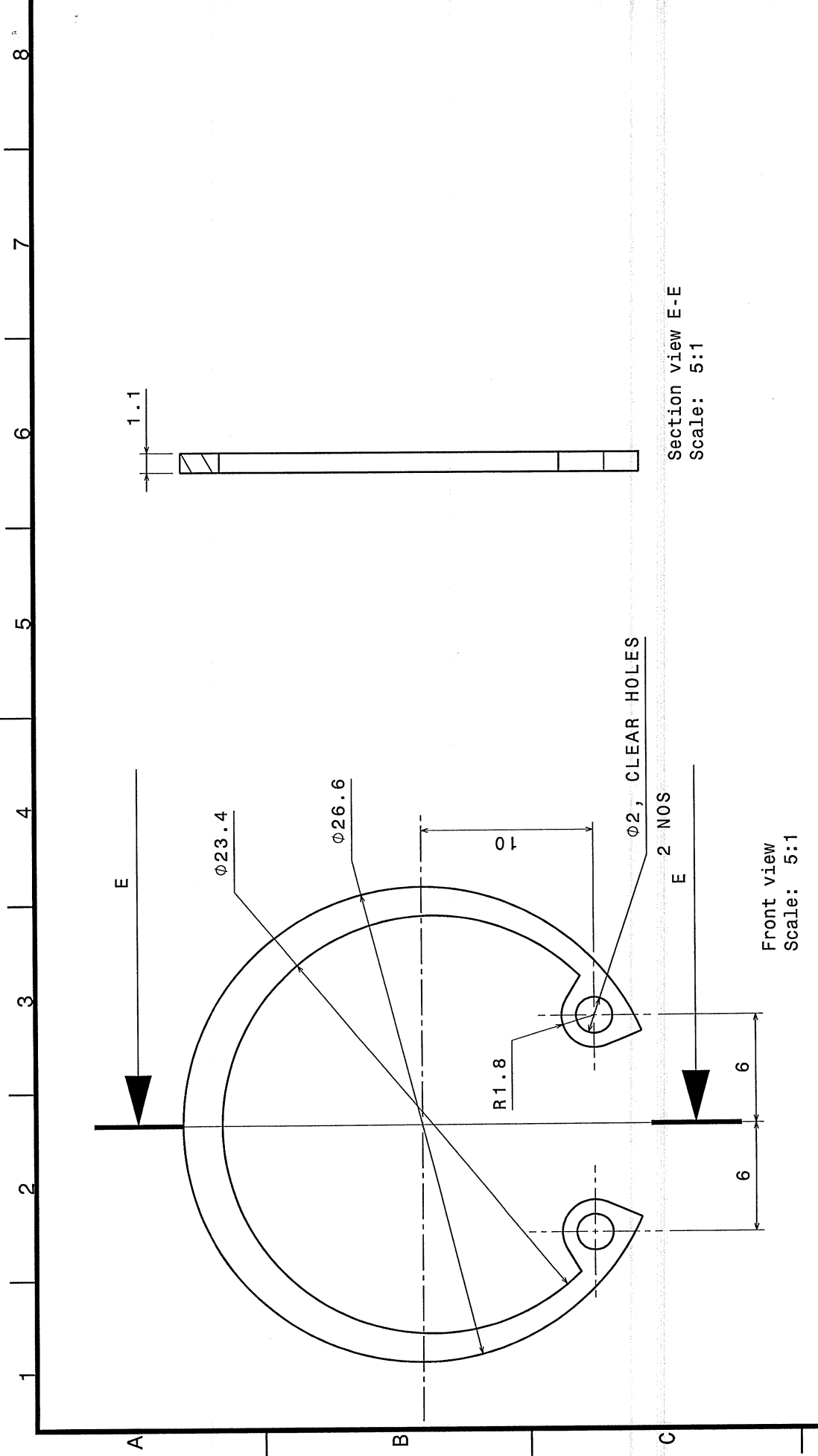
Section view D-D
Scale: 5:2

Front view
Scale: 5:2

MATERIAL : BRASS (60:40)
QTY: 01

- NOTE:
1. ALL THREADS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1x45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989
 6. AFTER FINGER CONTACT SOLDERING FULL BODY SLIVER PLATING TO BE DONE FOR 50µ

| | | | |
|------------|---|--------------------------|--------------------------------|
| ITER-India | ITER INDIA (IPR) GANDHINAGAR | RELEASED BY | ITER INDIA (IPR) GANDHINAGAR |
| | CONFIDENTIAL UNLESS AUTHORISED | APPROVED BY | CONFIDENTIAL UNLESS AUTHORISED |
| | The information on this drawing is confidential under the provisions of the Information Act. This information shall not be transmitted to anyone who is not authorised to receive it. | P AJESH | |
| | | CHECKED BY | |
| | | CONTROLLED BY | |
| | | DRAWN BY | |
| | | P AJESH | |
| | | FBS 3 LEVELS | |
| | | REV DATE | PT STATUS/PT VERSION |
| | | 07/12/18 | |
| | | SHEET SIZE | SCALE |
| | | NTS | PT STATUS |
| | | THIRD ANGLE PROJECTION | NO. OF SHYS |
| | | | 05 |
| | | DRAWING NUMBER | SHEET REVISION PR. START |
| | | II/ICH/6.3" | 04 |
| | | REDUCER/04 | |
| | | DRAWING TITLE | |
| | | IC JOINT FEMALE | |
| | | 3-1/8" IC JOINT ASSEMBLY | |



Section view E-E
Scale: 5:1

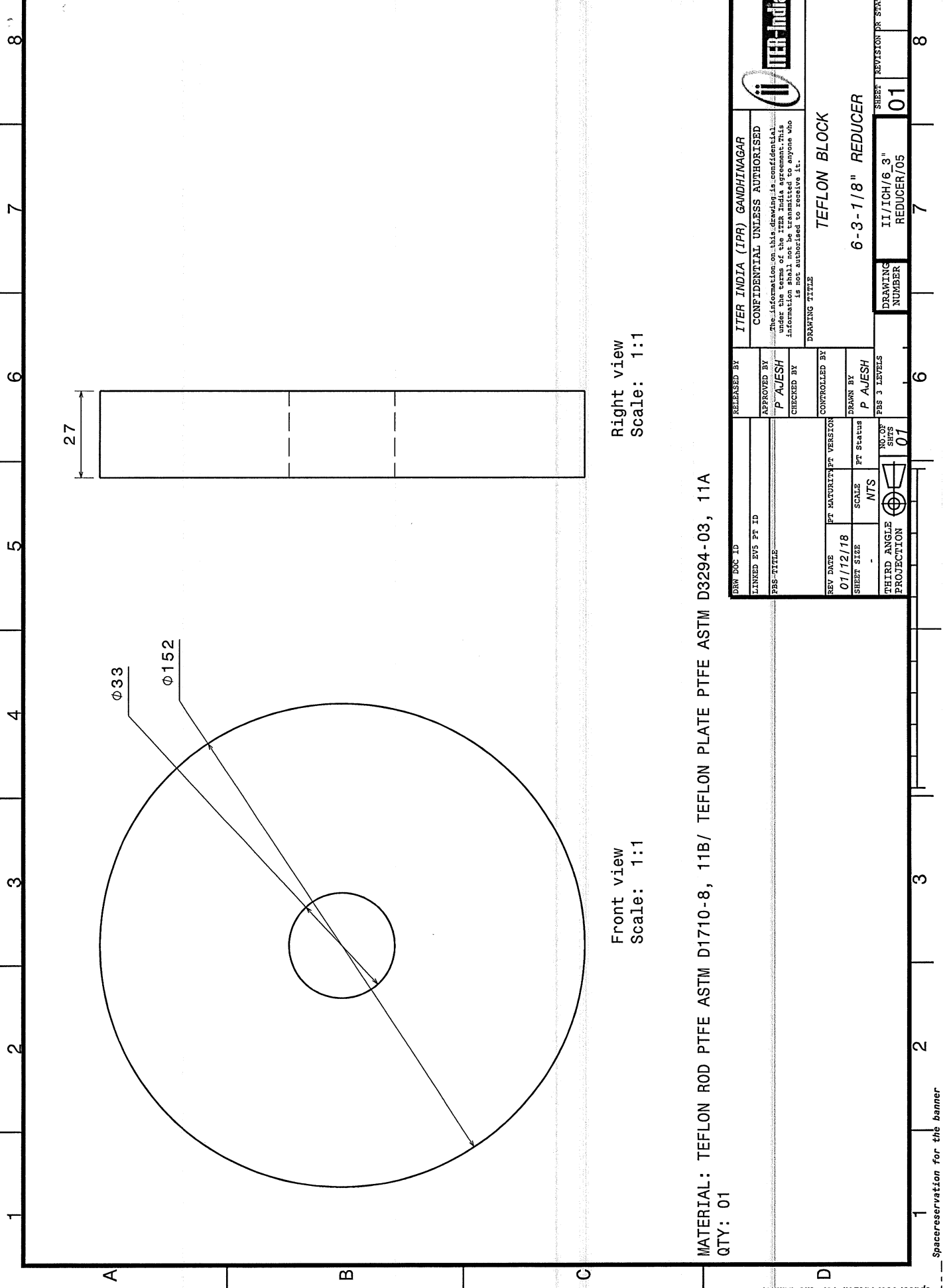
Front view
Scale: 5:1

MATERIAL : SS 304
QTY: 02

| | | | |
|------------------------|---------------|--------------------------------|--|
| DRW DOC ID | RELEASED BY | ITER INDIA (IPR) GANDHIMAGAR | |
| LINKED ENVS PT ID | APPROVED BY | CONFIDENTIAL UNLESS AUTHORIZED | |
| PT TITLE | PT Maturity | PT Version | The information on this drawing is confidential. Information shall not be transmitted to anyone who is not authorized to receive it. |
| REV DATE | 01/12/18 | PT Status | |
| SHEET SIZE | NTS | SCALE | DRAWING TITLE |
| THIRD ANGLE PROJECTION | NO. OF SHEETS | 05 | CIRCLIP |
| | | | 3-1/8" IC JOINT ASSEMBLY |
| | | | DRAWING NUMBER |
| | | | II/ICH/6_3" |
| | | | REDUCER/04 |
| | | | SHEET REVISION DR STATUS |
| | | | 05 |

Spacereservation for the banner

Spacereservation for the banner



27

$\phi 33$

$\phi 152$

Front view
Scale: 1:1

Right view
Scale: 1:1

MATERIAL: TEFLON ROD PTFE ASTM D1710-8, 11B/ TEFLON PLATE PTFE ASTM D3294-03, 11A
QTY: 01

| | | | | | | | |
|------------------------|--|-----------------------|--|--------------------------------|--|---|--|
| DRAW DOC ID | | RELEASED BY | | ITER INDIA (IPR) GANDHINAGAR | | | |
| LINKED EV5 PT ID | | APPROVED BY | | CONFIDENTIAL UNLESS AUTHORIZED | | <p>The information on this drawing is confidential for the use of the ITER organization. This information shall not be transmitted to anyone who is not authorized to receive it.</p> | |
| PES-TITLE | | P. AJESH | | CHECKED BY | | DRAWING TITLE | |
| REV DATE | | PT MATURIL/PT VERSION | | CONTROLLED BY | | TEFLON BLOCK | |
| 01/12/18 | | SCALE | | DRAWN BY | | 6-3-1/8" REDUCER | |
| SHEET SIZE | | NTS | | P. AJESH | | ITER/ICH/6_3" REDUCER/05 | |
| THIRD ANGLE PROJECTION | | NO. OF SHTS | | PBS 3 LEVELS | | SHEET REVISION DR STATUS | |
| | | 01 | | 6 | | 01 | |

1 2 3 4 5 6 7 8

Spacereservation for the banner

Spacereservation for the banner