



www.iter-india.org

ITER-India, Institute for Plasma Research

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Email : toc@iter-india.org

ENQUIRY - LOCAL

OFFICE COPY ENQUIRY NO : I-IEN20014
Date : 16/06/2020
Due Date : 07/07/2020 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	12 TO 3 1/8 INCH REDUCER	4	NOS
2	3 3/8 INCH TO TYPE N COAXIAL REDUCER	4	NOS

Note :

- (1) Submit your quotation duly signed and stamped in a sealed envelope AT THE ABOVE ADDRESS. You can also submit quotation duly stamped and signed in soft copy through email sent to toc@iter-india.org only. The quotation submitted should be password protected. Our representative from Tender Opening Committee will call you for password so as to open the document. It is mandatory to mention the mobile no. of your contact person in your quotation.
- (2) Any clarification on this enquiry may be sought from the Purchase Officer, ITER-India (purchase@iter-india.org)
- (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 44)
- (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) Bidder under the category of Micro & Small Enterprise (MSE) for the quoted item shall attach MSE certificate. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible under the policy. Traders are excluded from the purview of this Policy.
- (9) Lowest bidder will be decided by total landed cost (including taxes, duties & any other charges) of both the items together.

Encl:- 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 superscripting 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-IEN20014
Name Of Party : OFFICE COPY
Quotation No. & Date :
Due on : 07/07/2020 by 5:00 PM(IST)

Sr No.	Material Description	Qty	Unit	Rate	Total
1	12 TO 3 1/8 INCH REDUCER	4	NOS		
2	3 1/8 INCH TO TYPE N COAXIAL REDUCER	4	NOS		
				Grand Total	

COMMERCIAL TERMS & CONDITIONS *

Sr.No	Description	Bidder's Compliance
1	Free Door delivery	
2	Packing & Forwarding (To Specify, if any)	
3	Safe Delivery Charges (Please mention if not included in rate mention above)	
4	Delivery Period (3 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	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 Enterprise)	
13	Discount (If any)	
14	Remarks	

* Fill in the applicable details

Place:

Authorised Signatory:

Date:

Company Seal

Fabrication, Assembly, Testing of 12 to 3 1/8 inch and 3 1/8 inch to N type reducers**Technical specifications & terms****1. Introduction**

RF reducer are the components of Transmission Line. RF reducers are a mechanical component which contains coaxial cylinder/conductor, which 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	12 to 3-1/8 inch Reducer (Drawing no : II/ICH/12_3"REDUCER/00)	4	Annexure-I
2	3-1/8 inch to N type Reducer (Drawing no : II/ICH/REDUCER/3-N/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.

	Annexure-A Technical Specifications & Terms - Conditions	Enq.No. : I-IEN20014
		Date: 16.06.2020

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 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.

	Annexure-A Technical Specifications & Terms - Conditions	Enq.No. : I-IEN20014
		Date: 16.06.2020

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

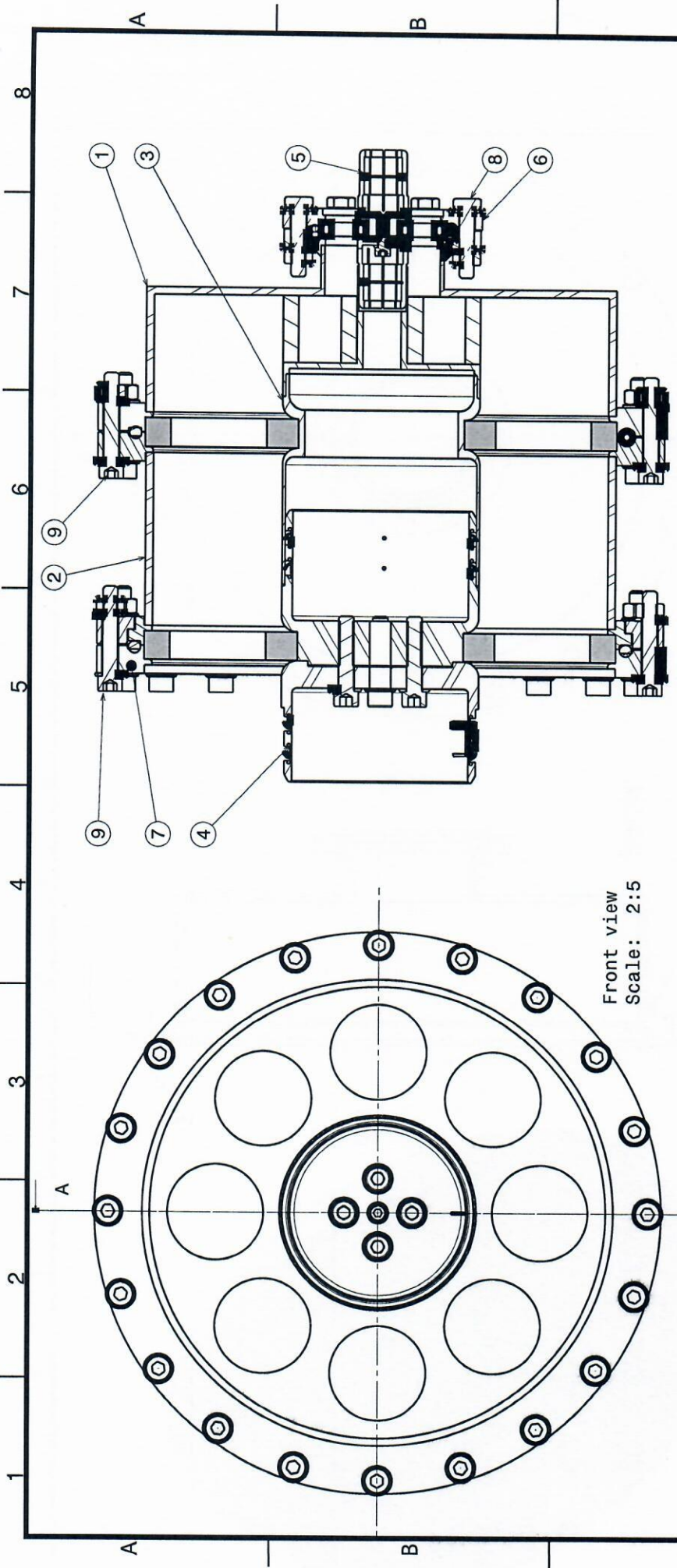
Table-III

Sr. Nos.	ITER-India 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 Reducers 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		
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.		

Name of Bidder:	
Sign of Bidder:	
Date:	
Seal	

Annexure-I Engineering drawings



Front view
Scale: 2:5

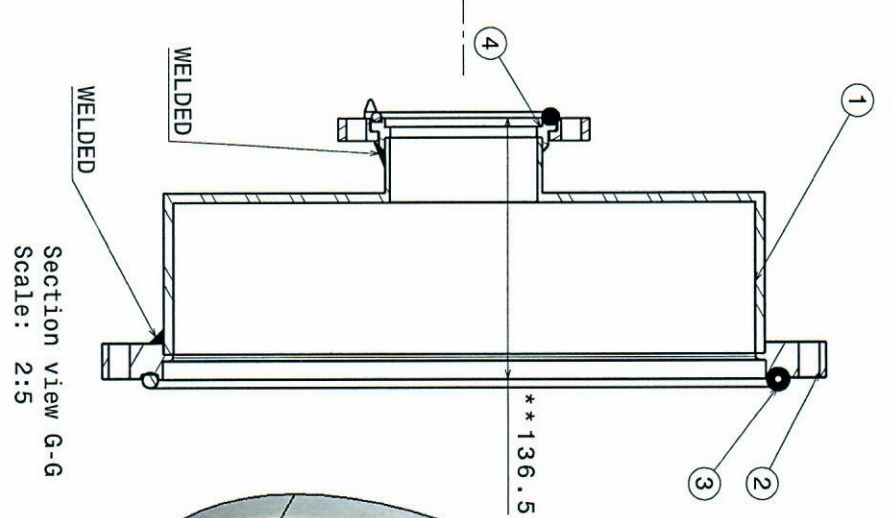
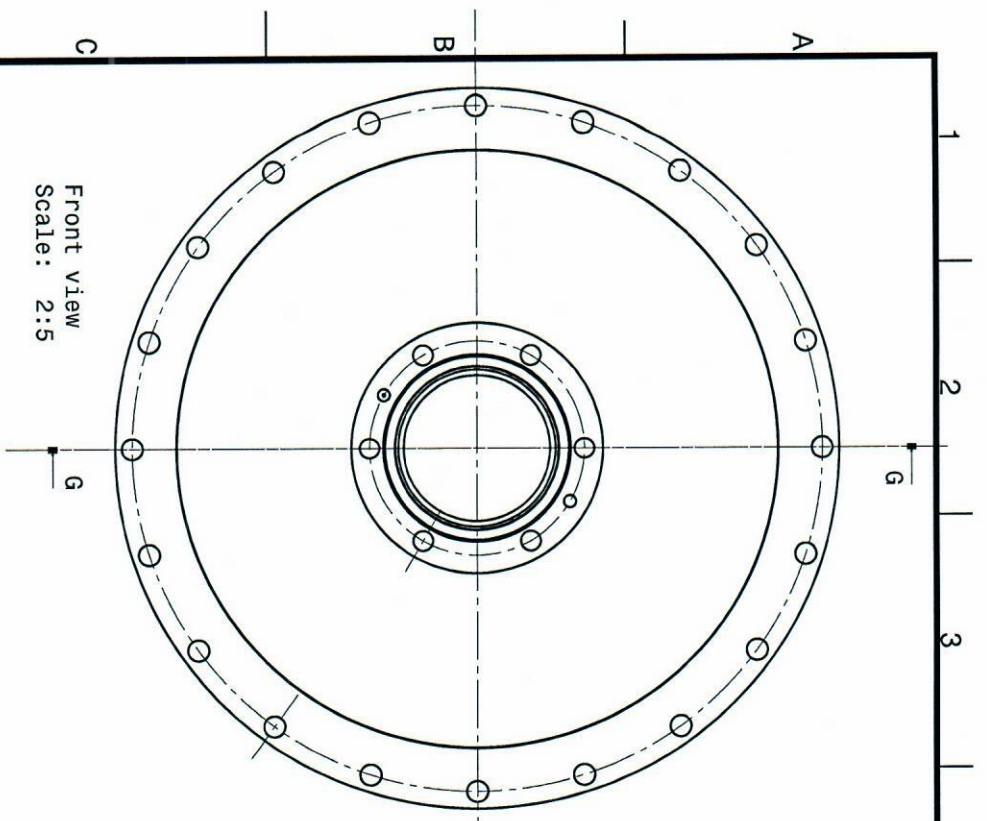
Section view A-A
Scale: 2:5

9	M10X50L HEX CAP SCREW WITH NUT , PLAN & SPRING WASHERS	SS 304	40
8	M10X25L HEX CAP SCREW WITH NUT , PLAN & SPRING WASHERS	SS 304	06
7	12 INCH FIX FLANGE	ALUMINIUM 6061 T6	1
6	3 1/8 INCH FIX FLANGE	BRASS (60:40)	1
5	3 1/8 INCH IC JOINT ASSY		1
4	12 INCH IC JOINT ASSY		1
3	INNER CONDUCTOR ASSY		1
2	OUTER CONDUCTOR ASSY-2	II/1CH/12_3" REDUCER/02	1
1	OUTER CONDUCTOR ASSY-1	II/1CH/12_3" REDUCER/01	1
PART NO	PART NAME	DESCRIPTION / MATERIAL	QTY

REV DATE 10/06/20	PT MAURITIUS PT VERSION	REV DATE 10/06/20	PT MAURITIUS PT VERSION
SHEET SIZE NTS	SCALE PT STATUS	SHEET SIZE NTS	SCALE PT STATUS
THIRD ANGLE PROJECTION	NO. OF SETS	THIRD ANGLE PROJECTION	NO. OF SETS
LINKED BY PT ID	APPROVED BY P AJESH	LINKED BY PT ID	APPROVED BY P AJESH
PBS TITLE	CHECKED BY	PBS TITLE	CHECKED BY
RELEASED BY	CONTROLLED BY	RELEASED BY	CONTROLLED BY
ITER INDIA (IPR) GANDHINAGAR CONFIDENTIAL UNLESS AUTHORISED		ITER INDIA (IPR) GANDHINAGAR CONFIDENTIAL UNLESS AUTHORISED	
The information on this drawing is confidential and shall not be transmitted to anyone who is not authorised to receive it.		The information on this drawing is confidential and shall not be transmitted to anyone who is not authorised to receive it.	
DRAWING TITLE		DRAWING TITLE	
12_3 INCH REDUCER		12_3 INCH REDUCER	
DRAWING NUMBER	REDUCER/00	DRAWING NUMBER	REDUCER/00
SHEET REVISION PR STATUS	01	SHEET REVISION PR STATUS	01

Spacereservation for the banner

Spacereservation for the banner



NOTE: ** IMPORTANT DIMENSION

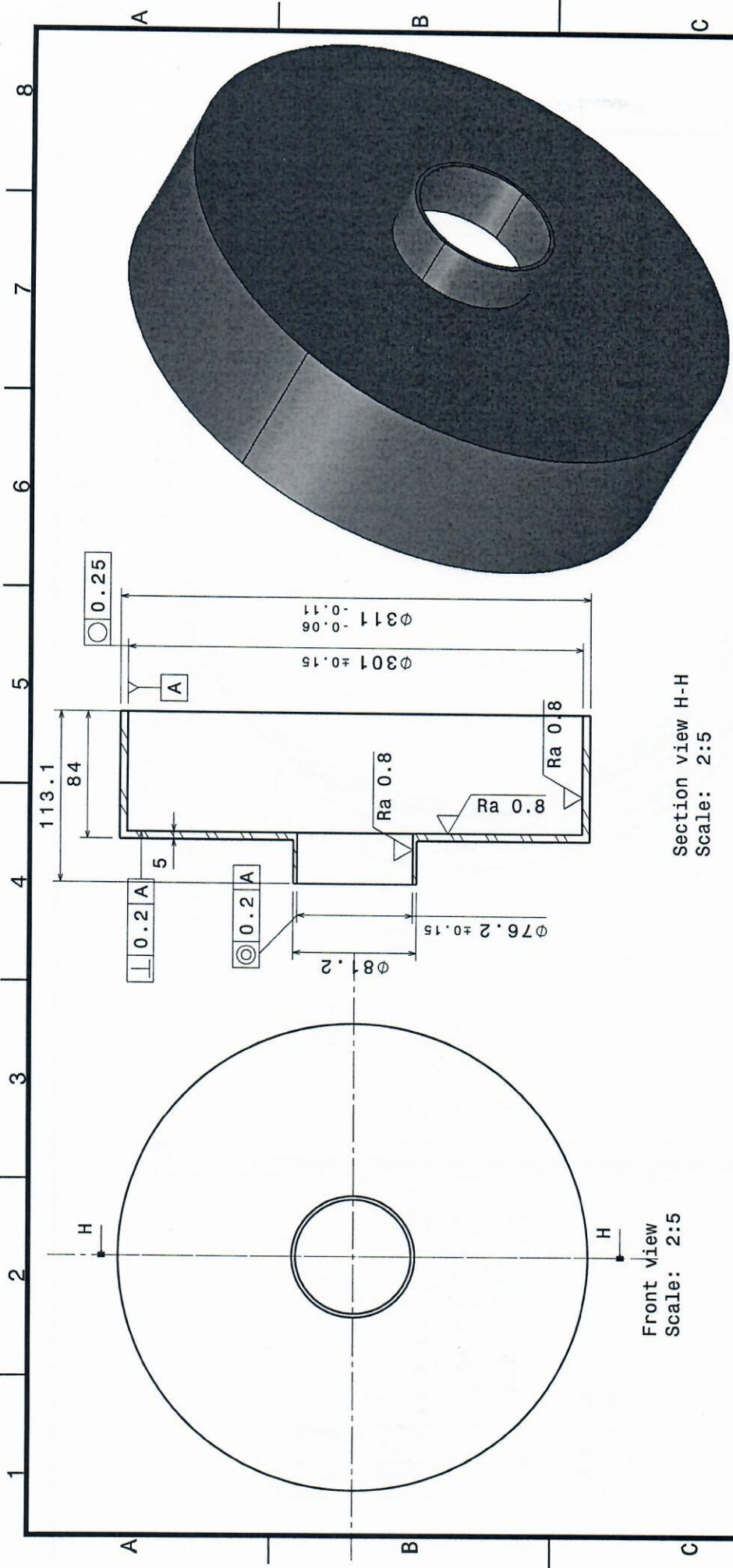
PART NO	PART NAME	DESCRIPTION / MATERIAL	QTY
4	3" SWIVEL FLANGE ASSEMBLY	II/ICH/12.3" REDUCER/01/01	1
3	12 INCH O RING	RUBBER SILICON	1
2	12 INCH FIX FLANGE	ALUMINIUM 6061 T6	1
1	12.3 INCH OC	ALUMINIUM 6061 T6	1

DESIGN NO. & ID	LINKED EVS PT ID	RELEASED BY	ITER INDIA (IPR) GAUNDHINAGAR
PS TITLE	PS TITLE	APPROVED BY	CONFIDENTIAL UNLESS AUTHORISED
REV DATE	PT MATURITY	CHECKED BY	The information on this drawing is confidential and its use for any purpose other than that for which it is intended is not authorized to receive it.
SHEET SIZE	SCALE	CONTROLLED BY	OUTER CONDUCTOR ASSEMBLY - 1
THIRD ANGLE PROJECTION	NOTES	DRAWN BY	12.3 INCH REDUCER
05	05	PS 3 LEVELS	DRAWING NUMBER
			II/ICH/12.3" REDUCER/01
			01
			SHEET REVISION PR STATUS

Spacereservation for the banner

Spacereservation for the banner





Front View
Scale: 2:5

Section view H-H
Scale: 2:5

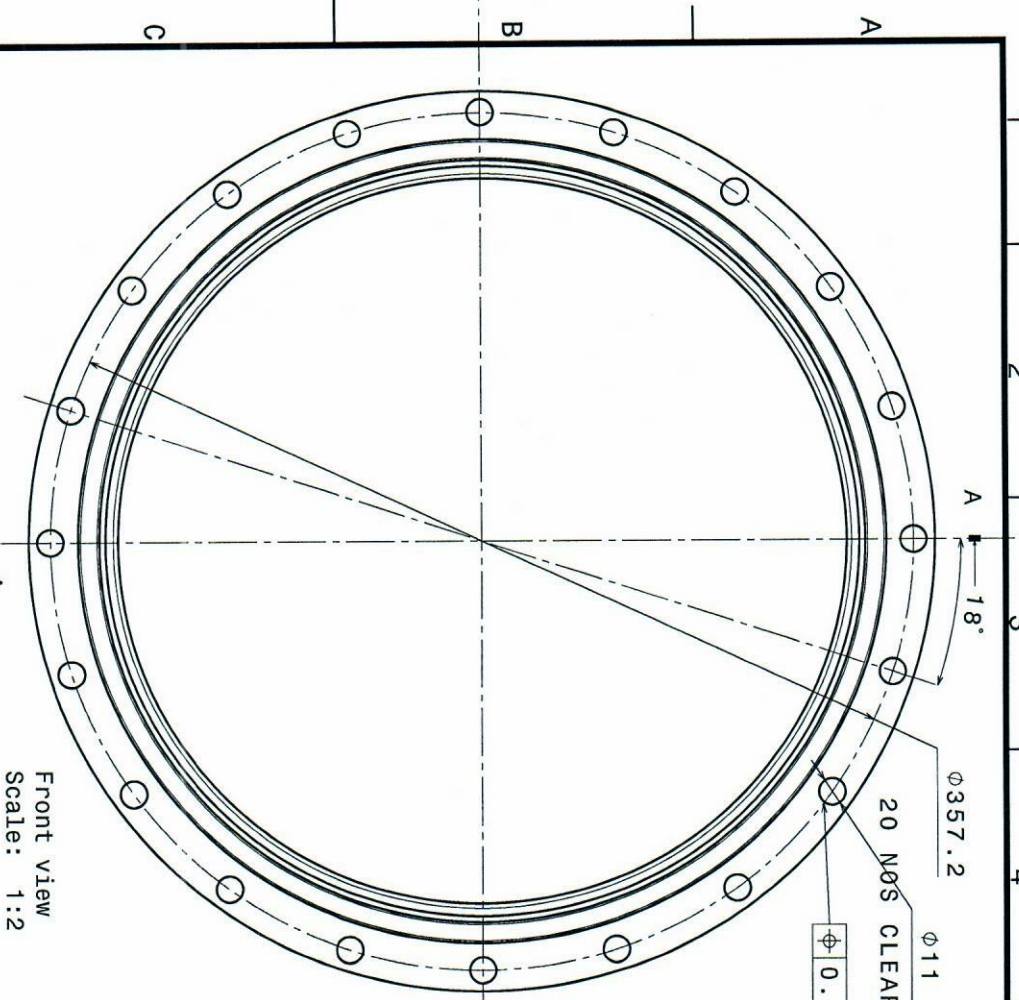
Isometric view
Scale: 1:2

Spacereservation for the banner

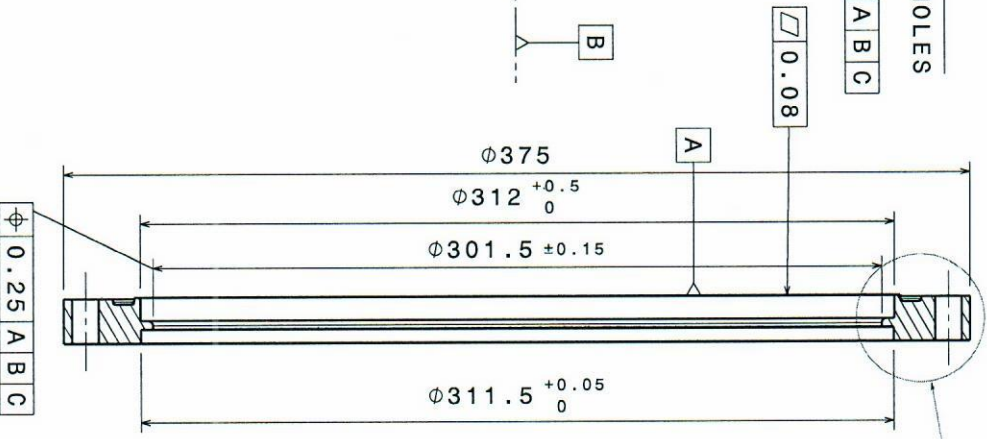
MATERIAL: ALUMINIUM 6061 -T6
QTY: - 01

DRW DOC ID	RELEASED BY	ITER INDIA (IPR) GANDHINAGAR		ITER-India
LINKED EVS PT ID	APPROVED BY	CONFIDENTIAL UNLESS AUTHORISED		
PES TITLE	10/06/20	12_3 INCH OC	The information on this drawing is confidential under the terms of the ITER India agreement. This information is not to be released to anyone who is not authorized to receive it.	
REV DATE	PT MATURED	PT VERSION	DRAWING TITLE	
SHEET SIZE	SCALE	PT STATUS	12_3 INCH REDUCER	
THIRD ANGLE PROJECTION	NTS	NO OF SHEETS	ITER INDIA (IPR) GANDHINAGAR	
		05	DRAWING NUMBER	
			ITER INDIA (IPR) GANDHINAGAR	
			SHEET REVISION OR STATUS	
			02	

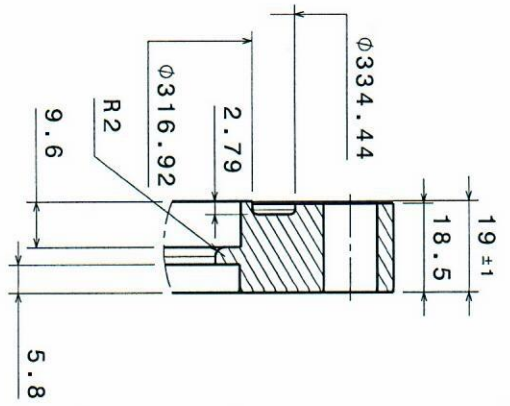
Spacereservation for the banner



Front view
Scale: 1:2



Section view A-A
Scale: 1:2



Detail B
Scale: 1:1

MATERIAL: ALUMINIUM 6061 T6
QTY.: 01 NOS

- NOTE:
1. ALL THREADS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1 X 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 8.3 μm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

DRAWING NO: 12		REVISED BY: P A/ESH		ITER INDIA (IPR) GANDHINAGAR		CONFIDENTIAL UNLESS AUTHORIZED		ITER-India	
DRAWING TITLE: 12_3 INCH REDUCER		DRAWN BY: P A/ESH		CHECKED BY: P A/ESH		APPROVED BY: P A/ESH		SHEET NO: 03	
SHEET NO: 03		DATE: 10/06/2020		SCALE: NTS		PROJECTION: THIRD ANGLE		SHEET TOTAL: 03	
SHEET NO: 03		SHEET SIZE: 10/06/2020		SCALE: NTS		PROJECTION: THIRD ANGLE		SHEET TOTAL: 03	
SHEET NO: 03		SHEET SIZE: 10/06/2020		SCALE: NTS		PROJECTION: THIRD ANGLE		SHEET TOTAL: 03	

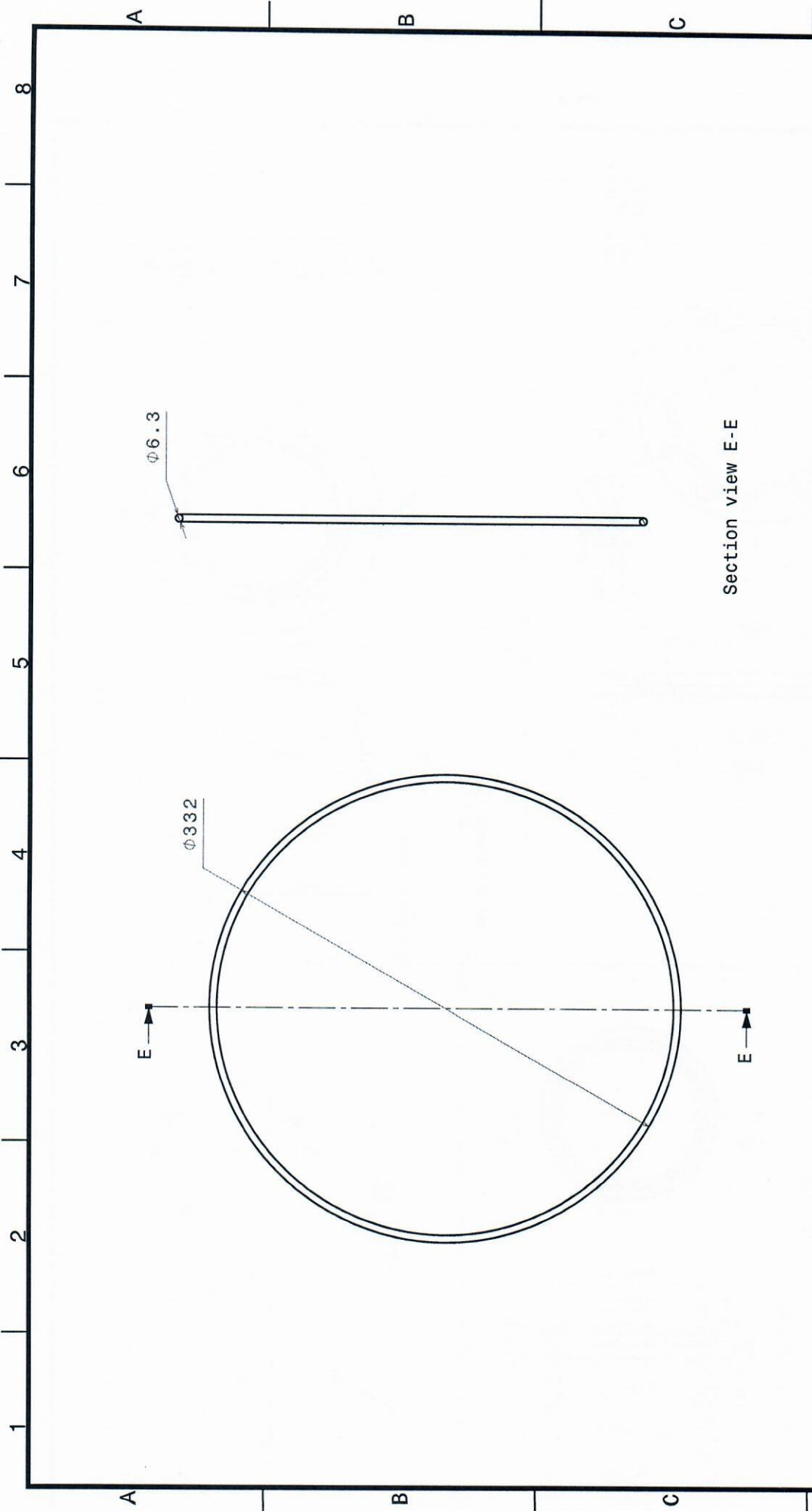
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Section view E-E

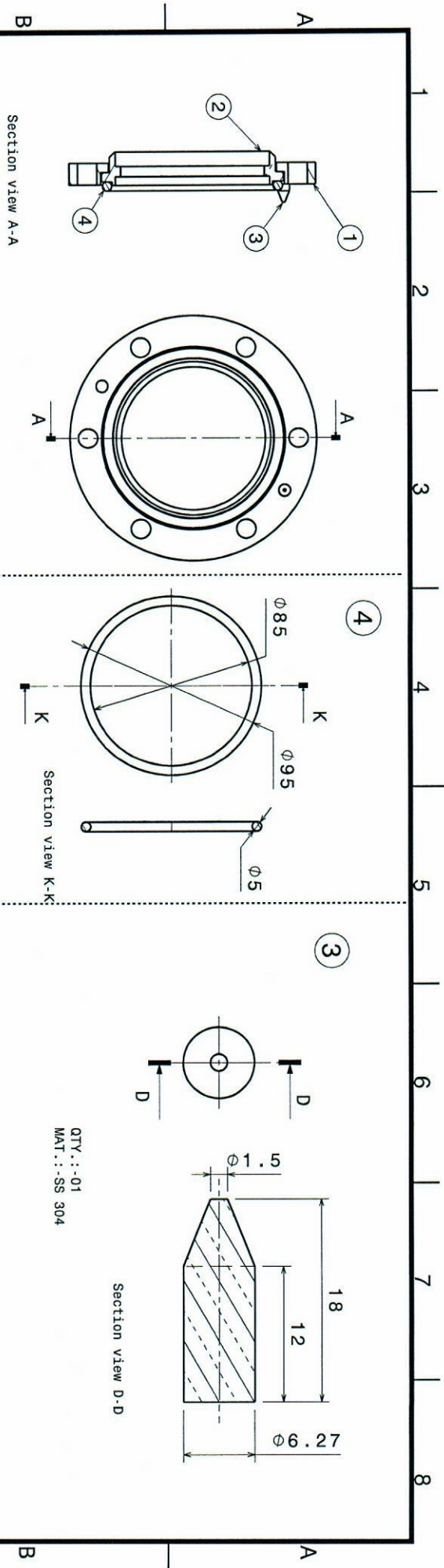
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MATERIAL:- RUBBER SILICON
QTY. :- 1

- NOTE:- (1) ALL DIMENSIONS ARE IN MM.
(2) INSPECTION AT VENDOR SITE BEFORE DELIVERY.

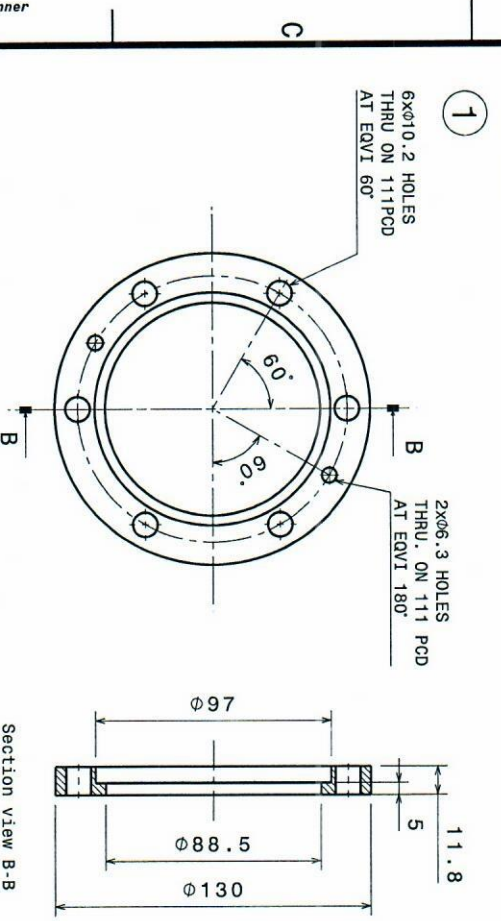
DSW DOC ID	RELEASED BY	ITER INDIA (IPR) GANDHINAGAR		
LINKED ENVS PT ID	APPROVED BY	CONFIDENTIAL UNLESS AUTHORIZED		
PBS TITLE	P AJESH	The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be disclosed to anyone who is not authorized to receive it.		
REV DATE	CHECKED BY	DRAWING TITLE		
10/06/20	PES 3 LEVELS	O-RING FOR FIX FLANGE		
SHEET SIZE	NO OF SHEETS	12.3 INCH REDUCER		
NTS	05	II/ICH/12_3"		
THIRD ANGLE PROJECTION		DRAWING NUMBER		
		04		
		SHEET REVISION OR STATUS		
		01		

Spacereservation for the banner



QTY.: -01
MAT.: -RUBBER SILICON

QTY.: -01
MAT.: -SS 304



QTY.: -01
MAT.: -ALUMINIUM 6061-T6

QTY.: -01
MAT.: -ALUMINIUM 6061-T6

NOTE:- (1) ALL DIMENSIONS ARE IN MM.
(2) INSPECTION AT VENDOR SITE BEFORE DELIVERY.

DRW DOC ID		RELEASED BY		ITER INDIA (IPR) GANDHINAGAR	
LINKED EVS PT ID		APPROVED BY		CONFIDENTIAL UNLESS AUTHORIZED	
PSS TITLE		CHECKED BY		The information on this drawing is confidential and its use without the written permission of ITER-India shall not be transmitted to anyone who is not authorized to receive it.	
REV DATE		PT Maturity		DRAWING TITLE	
20/07/15		NTS		12_3 INCH OC_ASSEMBLY	
SHEET SIZE		PT Status		DRAWING NUMBER	
NTS		ALAY WALA		II/ICH/12_3	
THIRD ANGLE PROJECTION		NO. OF SHEETS		REDUCER/01/01	
05		PAS 3 LEVELS		SHEET REVISION PR STAND	
05				05	

Spacereservation for the banner

Spacereservation for the banner

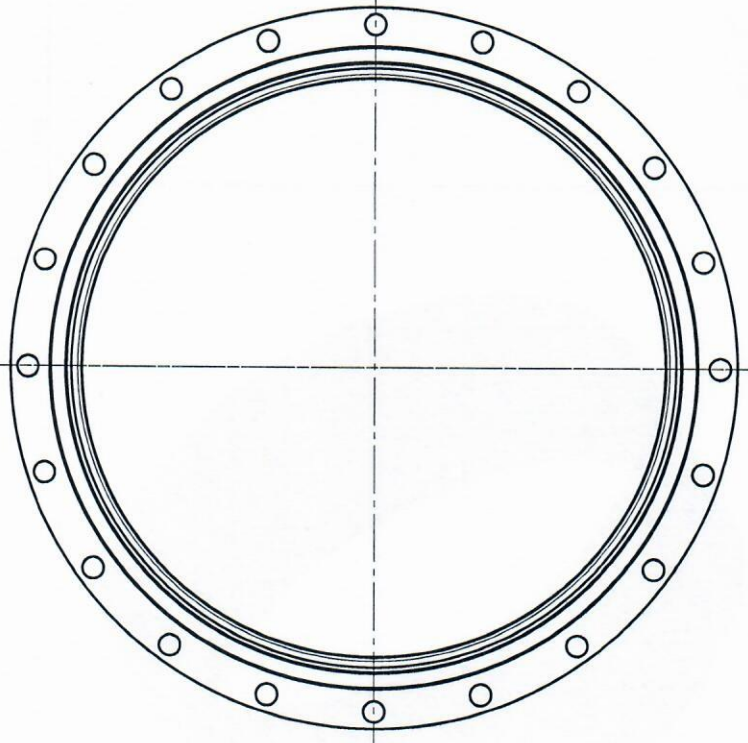
1 2 3 4 5 6 7 8

A

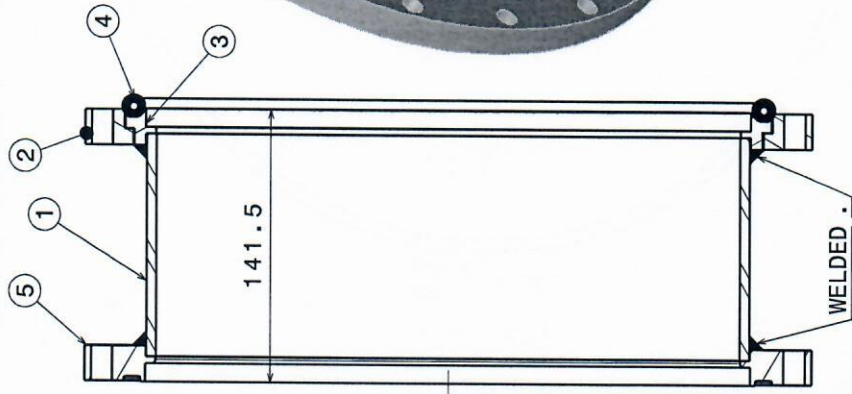
B

C

D



Front view
Scale: 2:5



Section view G-G
Scale: 2:5



Isometric view
Scale: 2:5

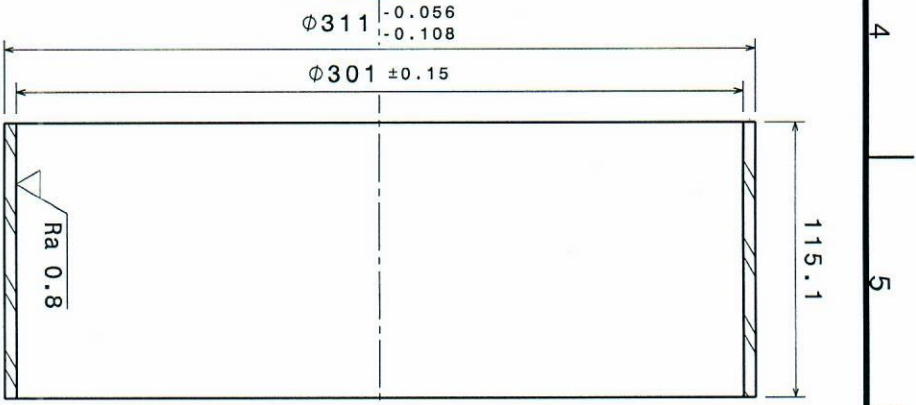
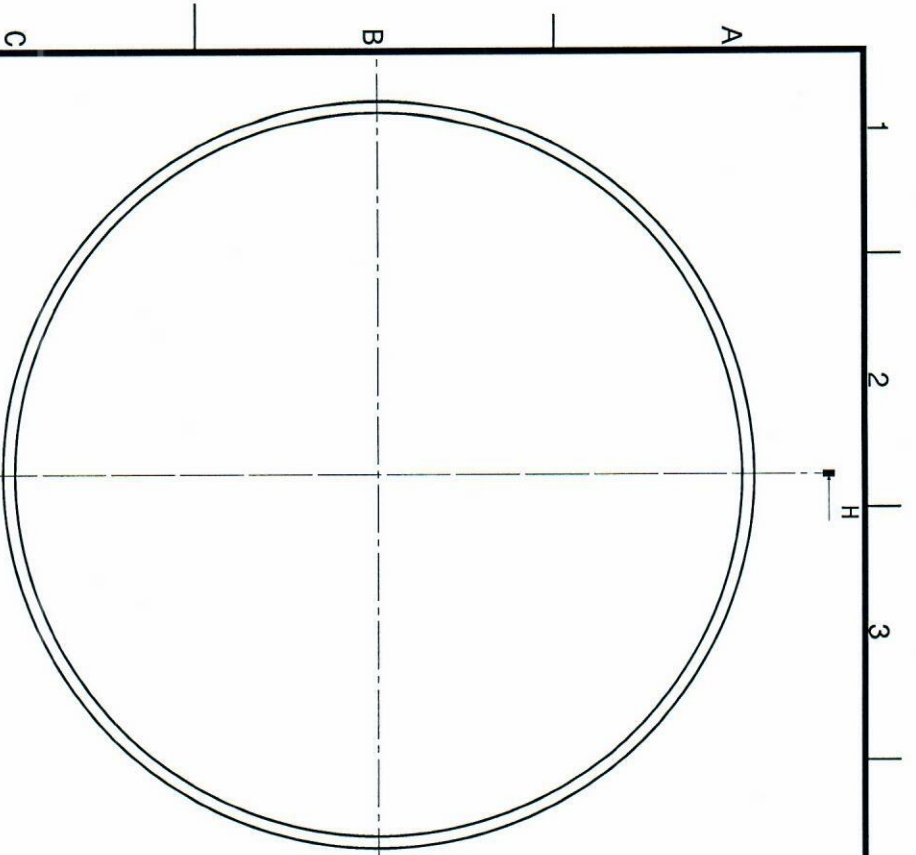
PART NO	PART NAME	DESCRIPTION / MATERIAL	QTY
5	12 INCH FIX FLANGE	ALUMINIUM 6061 T6	1
4	O-RING FOR SWIVEL FLANGE	RUBBER SILICON	1
3	SWIVEL_FLANGE_PART_2	ALUMINIUM 6061 T6	1
2	SWIVEL_FLANGE_PART_1	ALUMINIUM 6061 T6	1
1	12 INCH OC	ALUMINIUM 6061 T6	1

DRW EXC ID	LINKED EVS FT ID	RELEASED BY	ITER INDIA (IPR) GANDHINAGAR	
PBS TITLE	APPROVED BY	P. AJESH	CONFIDENTIAL UNLESS AUTHORISED	
REV DATE	10/06/20	CHECKED BY	The information on this drawing is confidential and shall not be transmitted to anyone who is not authorized to receive it.	
PT MATURITY	PT VERSION	CONTROLLED BY		DRAWING TITLE
SCALE	NTS	DRAWN BY	P. AJESH	OUTER CONDUCTOR ASSY-2
THIRD ANGLE PROJECTION	NO. OF SETS	06		12_3 INCH REDUCER
				DRAWING NUMBER
				II/ICH/12_3 REDUCER/02
				SHEET REVISION OR STATUS
				01

1 2 3 4 5 6 7 8

Spacereservation for the banner

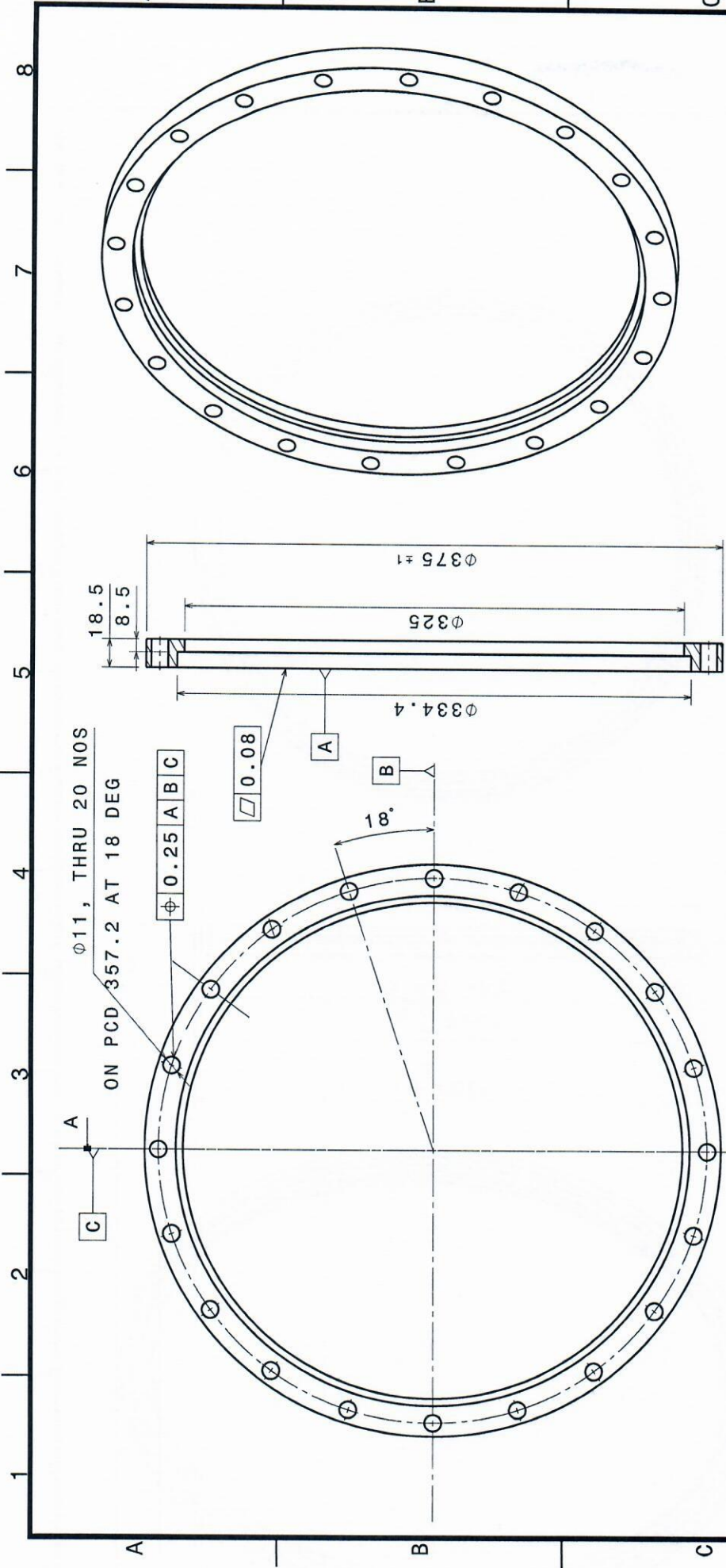
Spacereservation for the banner



MATERIAL: ALUMINIUM 6061 T6
QTY.: 01

DRAWING TITLE		ITER INDIA (IPR) GANDHINAGAR	
LINED EWS PR ID		CONFIDENTIAL UNLESS AUTHORISED	
PDS TITLE		APPROVED BY P ALESH	
REV DATE		CHECKED BY	
SHEET SIZE		CONTROLLED BY	
10/06/20		DRAWN BY P ALESH	
SCALE		DRAFTER	
NTS		12_3 INCH OC	
PT NATUR/PT VERSION		DRAWING NUMBER	
PT STATUS		11/ICH/12_3"	
NOT OF SHS		REDUCER/02	
06		SHEET REVISION PR SHARD	
		02	

Spacereservation for the banner
Spacereservation for the banner



Section View A-A

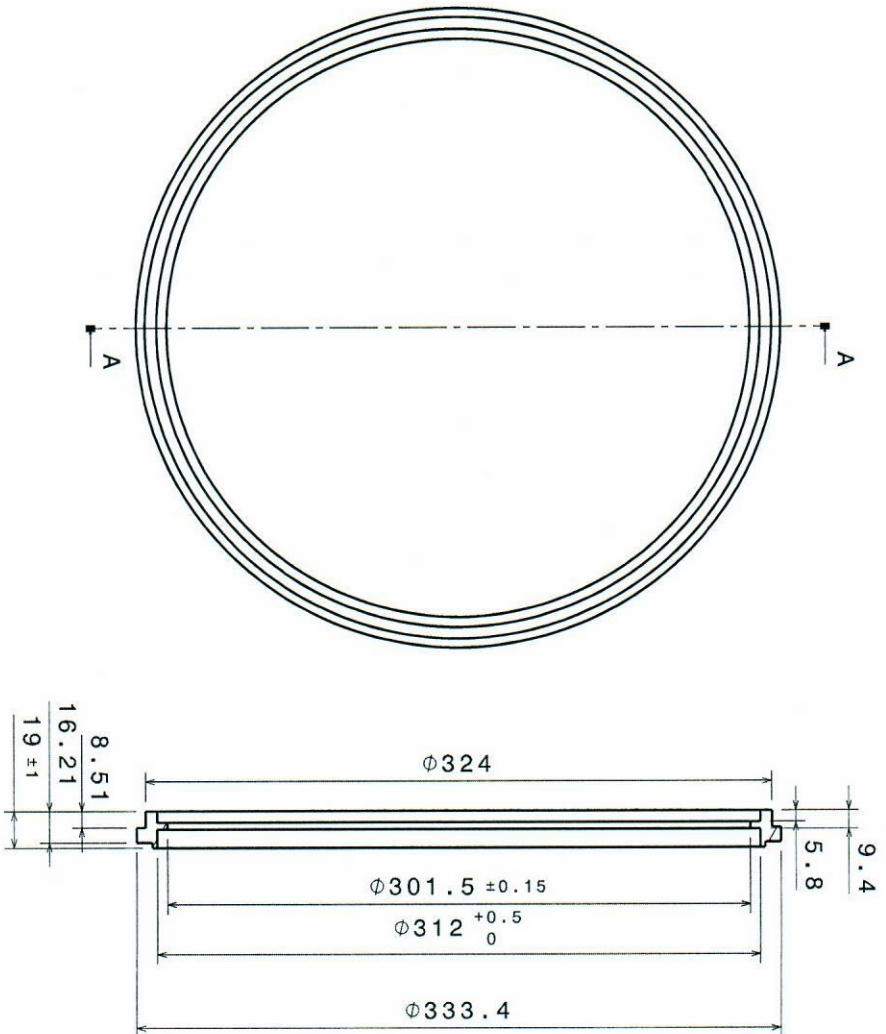
MATERIAL:-ALUMINIUM 6061-T6
 QTY.:- 1

NOTE:- (1) ALL DIMENSIONS ARE IN MM.
 (2) INSPECTION AT VENDOR SITE BEFORE DELIVERY.

DRW DOC ID	RELEASED BY	ITER INDIA (IPR) GANDHINAGAR	
LINKED EVS PT ID	CONFIDENTIAL UNLESS AUTHORIZED	The information on this drawing is confidential under the terms of the ITER India agreement. This information is not to be disclosed to anyone who is not authorized to receive it.	
PT TITLE	APPROVED BY	P AJESH	DRAWING TITLE SWIVEL_FLANGE_PART_1 12_3 INCH REDUCER
REV DATE	CHECKED BY		
PT MATURITY/PT VERSION	CONTROLLED BY		SHEET REVISION FOR SWIVEL REDUCER/02 03
SCALE	PT STATUS	NTS	
SHEET SIZE	NO OF SHEETS	06	DRAWING NUMBER II/ICH/12_3" REDUCER/02
THIRD ANGLE PROJECTION	NO OF SPTS	06	

Spacereservation for the banner

Spacereservation for the banner



Section View A-A

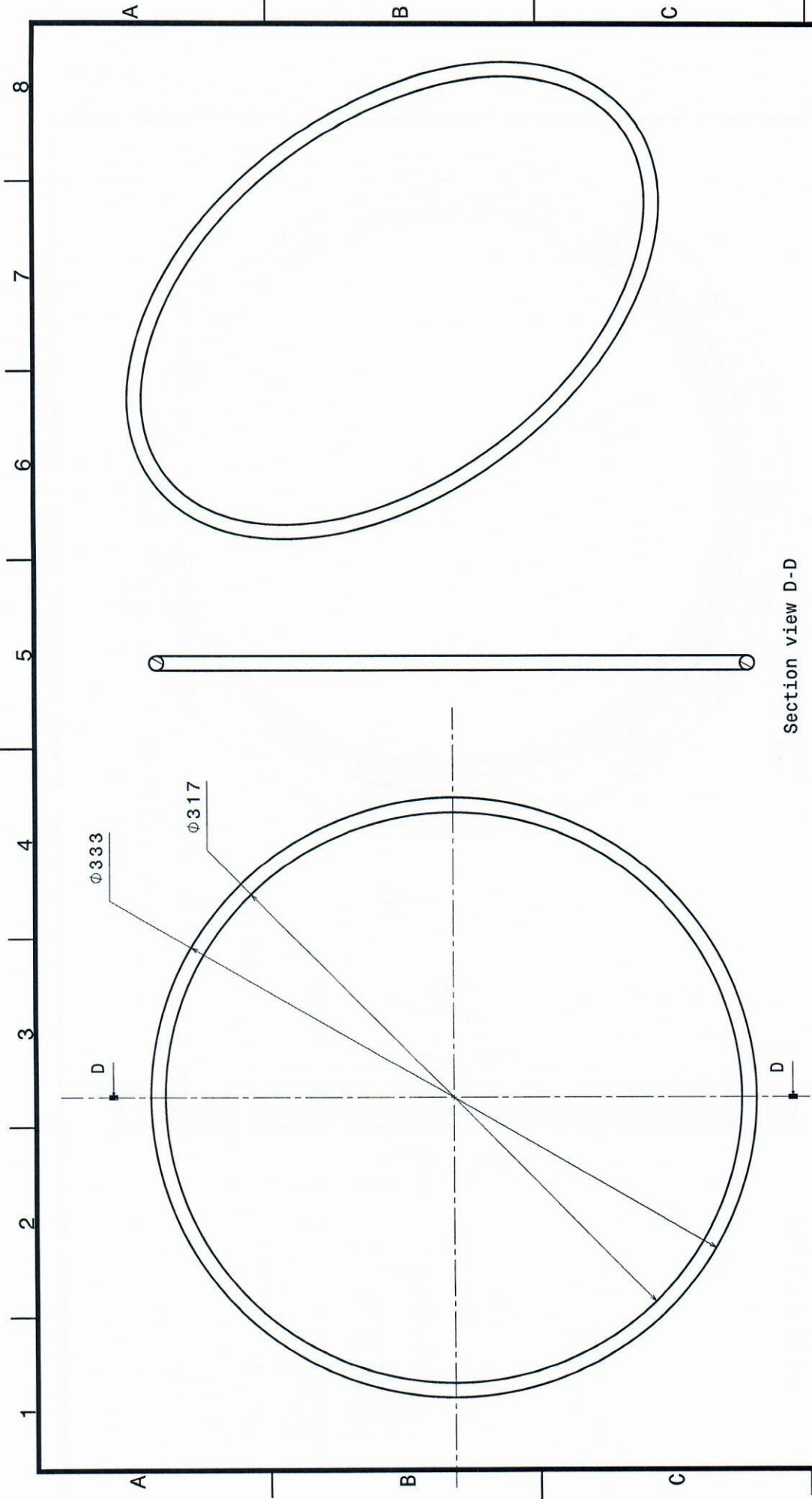
NOTE: - (1) ALL DIMENSIONS ARE IN MM.
 (2) INSPECTION AT VENDOR SITE BEFORE DELIVERY.

MATERIAL :- ALUMINIUM 6061-T6
 QTY. :- 1

DRAWING TITLE		ITER INDIA (IPR) GANDHINAGAR	
LINKED BVS PT ID		CONFIDENTIAL UNLESS AUTHORIZED	
PDS TITLE		APPROVED BY P AJESH	
REV DATE		CHECKED BY	
10/06/20		P AJESH	
SHEET SIZE		DRAWN BY	
NTS		P AJESH	
THIRD ANGLE PROJECTION		CONTROLLED BY	
NO. OF SHEETS		SHEET NO.	
06		04	
PROJECT NO.		DRAWING NUMBER	
12_3 INCH REDUCER		II/IOH/12_3"	
ITER-India		REDUCER/02	

Spacereservation for the banner

Spacereservation for the banner



Section view D-D

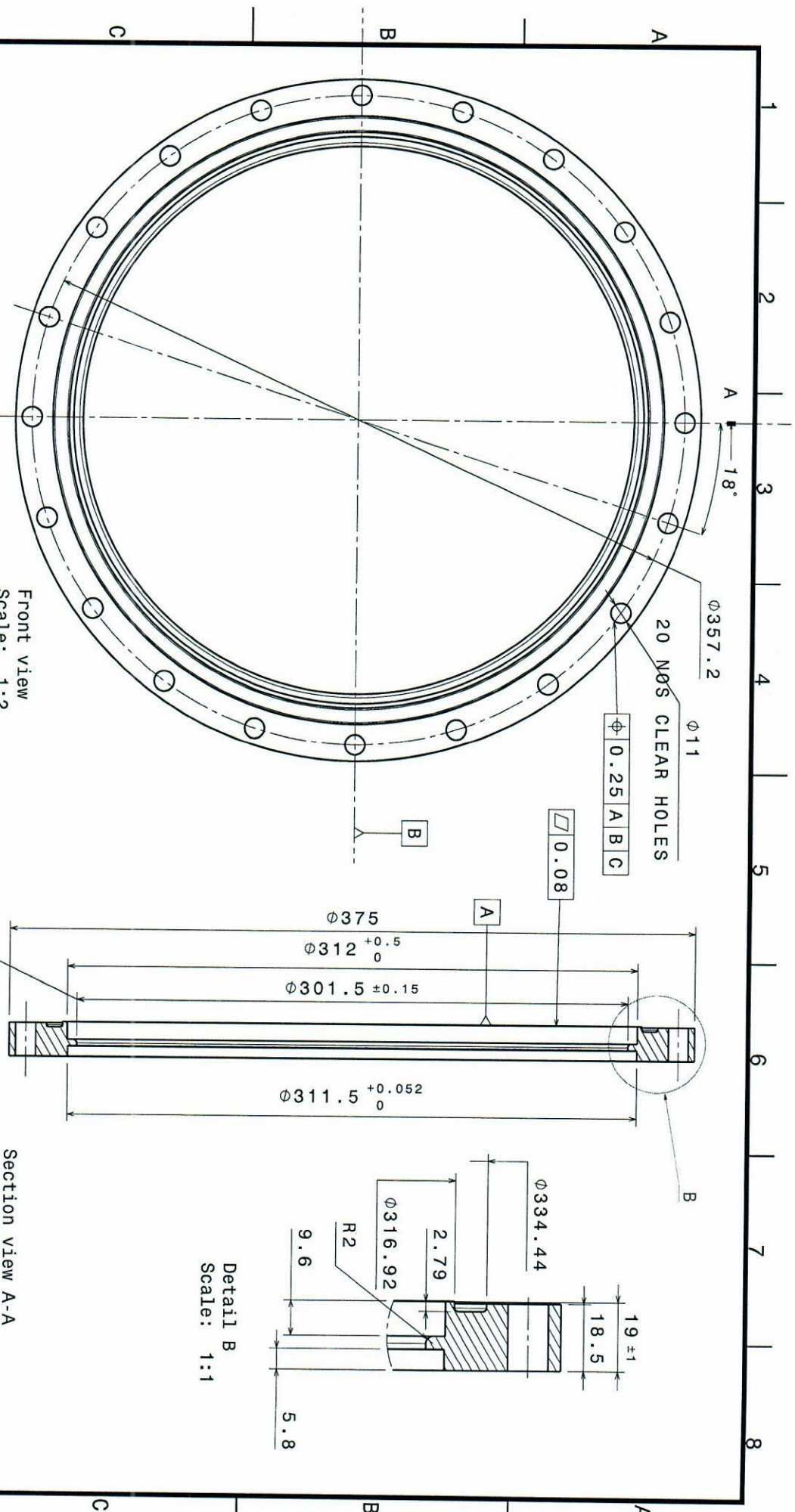
MATERIAL:-RUBBER SILICON
 QTY.:- 1

NOTE:- (1) ALL DIMENSIONS ARE IN MM.
 (2) INSPECTION AT VENDOR SITE BEFORE DELIVERY.

DRAWING TITLE		ITER INDIA (IPR) GANDHINAGAR	
LINKED B/S PT ID		CONFIDENTIAL UNLESS AUTHORISED	
SHEET TITLE		The information on this drawing is confidential under the terms of the ITER India agreement. This information is not to be disclosed to anyone who is not authorized to receive it.	
REV DATE	PT MAJORITY	PT VERSION	ITER-India
10/06/20			
SHEET SIZE	SCALE	PT STATUS	DRAWING NUMBER
-	NTS		II/ICH/12.3"
THIRD ANGLE PROJECTION	SECTION SHOTS	ITER INDIA (IPR) GANDHINAGAR	REDUCER/02
	06		05
DRAWING NUMBER		SHEET REVISION DR STATUS	
II/ICH/12.3"		REDUCER/02	
ITER INDIA (IPR) GANDHINAGAR		O-RING FOR SWIVEL FLANGE D	
CONFIDENTIAL UNLESS AUTHORISED		12_3 INCH REDUCER	
The information on this drawing is confidential under the terms of the ITER India agreement. This information is not to be disclosed to anyone who is not authorized to receive it.			

Spacereservation for the banner

Spacereservation for the banner



Front view
Scale: 1:2

Section view A-A
Scale: 1:2

Detail B
Scale: 1:1

MATERIAL: ALUMINIUM 6061 T6
QTY.: 01 NOS

- NOTE:
1. ALL THREADS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1 X 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 8.3 µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

Spacereservation for the banner

Spacereservation for the banner

2

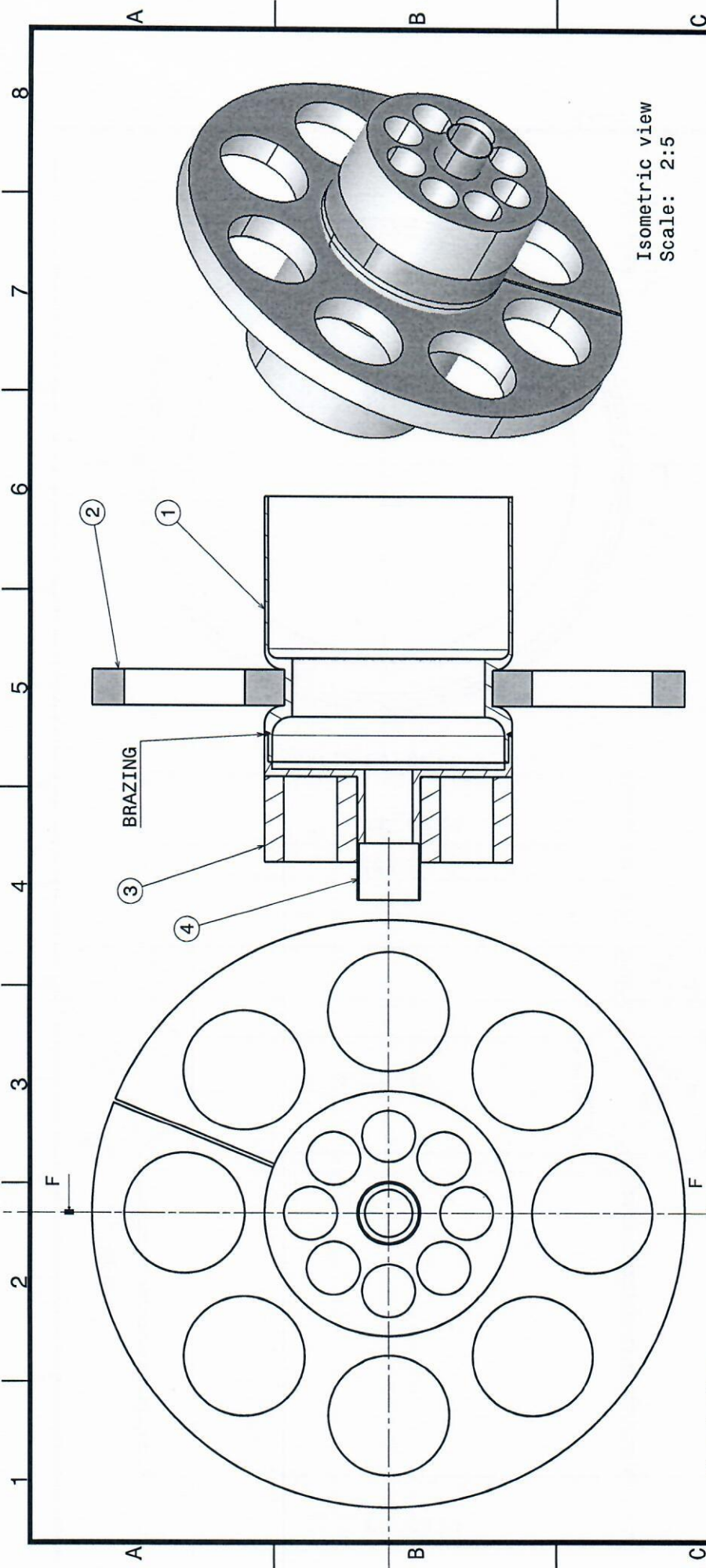
3

6

7

8

DESIGN NO. / REV. NO.	ITR INDIA (IPR) GANDHINAGAR	CONFIDENTIAL UNLESS AUTHORIZED	ITR-India
DESIGNED BY: P. A. JESH	APPROVED BY: P. A. JESH	The information on this drawing is confidential under the provisions of the Information Act. Information shall not be transmitted to anyone who is not authorized to receive it.	
DRAWN BY: P. A. JESH	CHECKED BY:	DRAWING TITLE: 12 INCH FIX FLANGE	
CONTROLLED BY:	REVISIONS:	DRAWING NUMBER: II/ICH/12_3"	
REV. DATE: 10/06/2020	PT. MATUR/PT. VERSION	SHEET NUMBER: 06	
SHEET SIZE: M/S	PT. STATUS	SHEET REVISION PR. SYMBO: 06	
SCALE: N/S	NO. OF SHEETS: 06	TOTAL SHEETS: 06	
THIRD ANGLE PROJECTION			



Isometric view
Scale: 2:5

Section view F-F
Scale: 1:2

Front view
Scale: 1:2

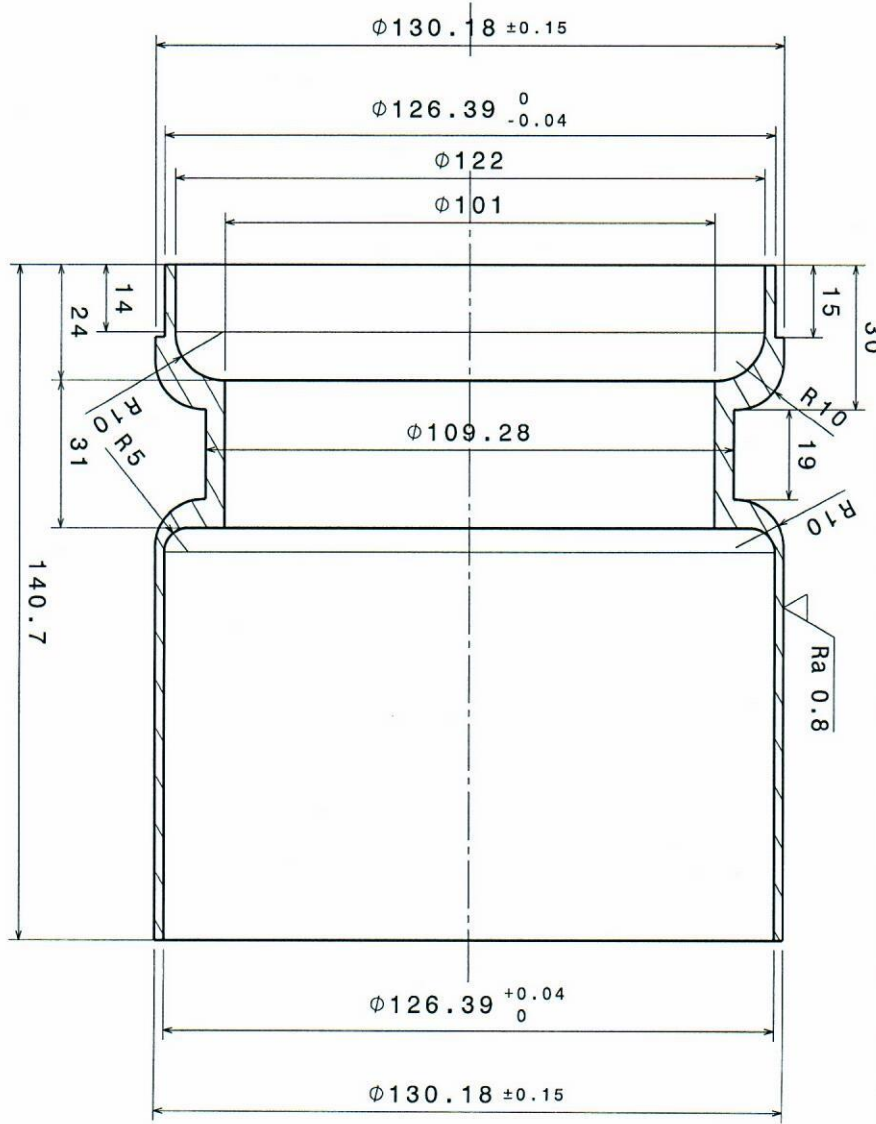
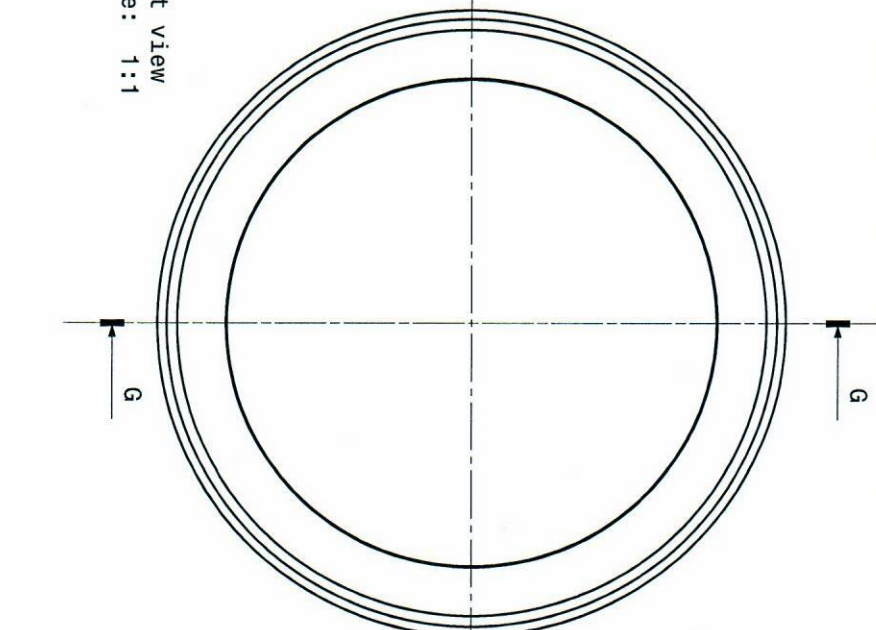
PART NO	PART NAME	DESCRIPTION / MATERIAL	QTY
4	IC REDUCER	ETP COPPER	1
3	BLOCK	TEFLON	1
2	DISK	TEFLON	1
1	IC	ETP COPPER	1

ORW DOC ID	RELEASED BY	ITER INDIA (IPR) GANDHINAGAR	
LINKED EVS FT ID	APPROVED BY	P AJESH	
PBS TITLE	CHECKED BY		CONFIDENTIAL UNLESS AUTHORIZED The information on this drawing is confidential unless otherwise stated. This information shall not be transmitted to anyone who is not authorized to receive it.
REV DATE	CONTROLLED BY		
10/06/20	PT MAJORITY	PT VERSION	DRAWING TITLE
	SCALE	PT STATUS	INNER CONDUCTOR ASSEMBLY
	NTS		12 3 INCH REDUCER
			DRAWING NUMBER
			II/ICH/12_3"
			REDUCER/03
			SHEET REVISION DR STATUS
			01
			05

Spacereservation for the banner

Spacereservation for the banner

Front view
Scale: 1:1



Section view G-G
Scale: 1:1

MATERIAL: ETP COPPER
QTY.: 01

DRAWING NO. 12_3		RELEASED BY	
LINKED ENVS. FILE ID		ITER INDIA (IPR) GANDHINAGAR	
PART TITLE		CONFIDENTIAL UNLESS AUTHORIZED	
SHEET SIZE		The information on this drawing is confidential under the terms of the IPR India agreement. This information is not authorized to be released to anyone who is not authorized to receive it.	
SCALE		DRAWING TITLE	
NTS		IC	
REV. DATE		DRAWING NUMBER	
10/06/20		11/ICH/12_3"	
SHEET STATUS		REDUCER/03	
NO. OF SHEETS		SHEET REVISION PR. SYMBO	
05		02	



Spacereservation for the banner

Spacereservation for the banner

2

3

6

7

8

1

2

3

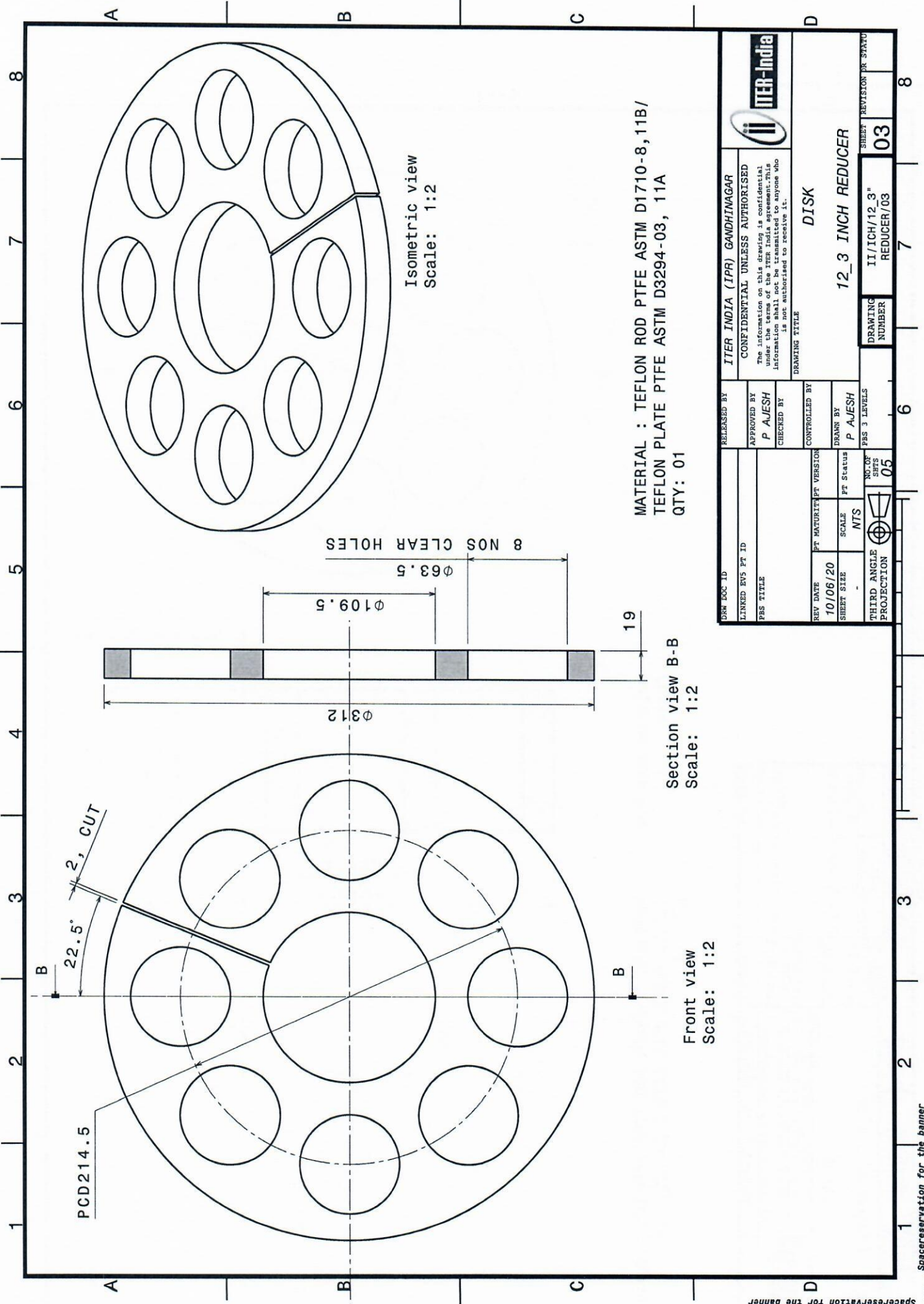
4

5

6

7

8



Isometric view
Scale: 1:2

Section view B-B
Scale: 1:2

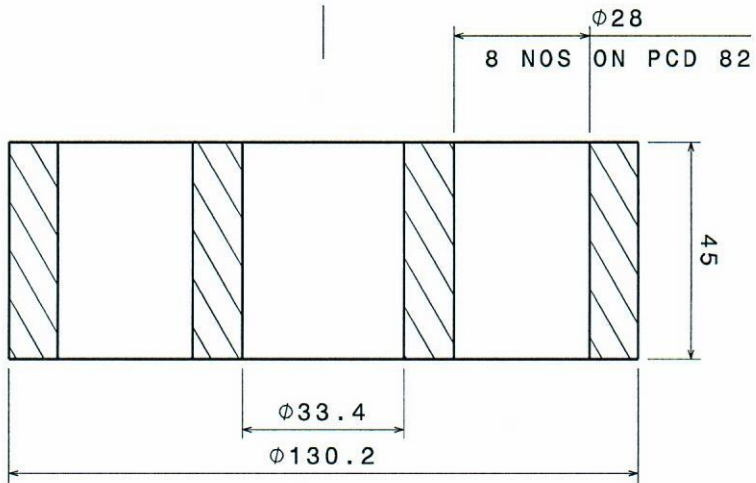
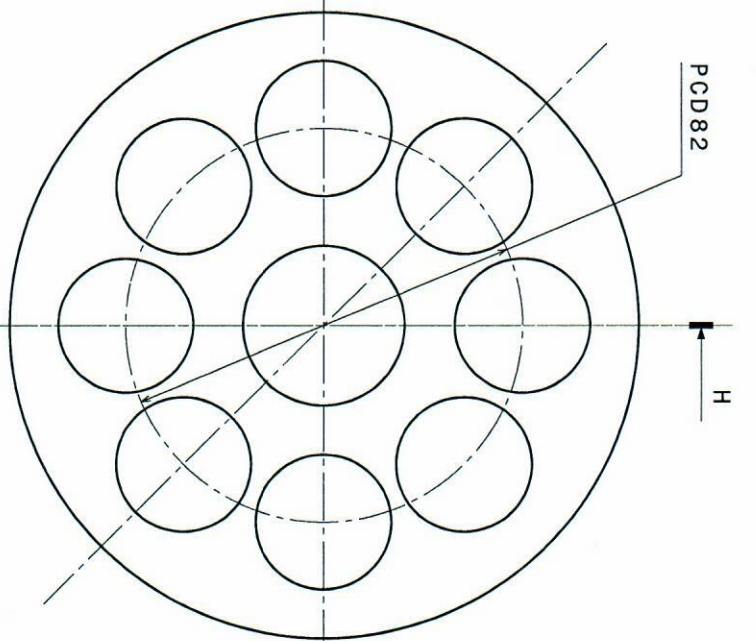
Front view
Scale: 1:2

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

DRW DOC ID	RELEASED BY	ITER INDIA (IPR) GANDHINAGAR	ITER-India	
LINKED EVS FT ID	APPROVED BY	CONFIDENTIAL UNLESS AUTHORIZED	The information on this drawing is confidential under the terms of the IPR India license. This information shall not be transmitted to anyone who is not authorized to receive it.	
PBS TITLE	CHECKED BY	P AJESH	DRAWING TITLE	
REV DATE	CONTROLLED BY	PBS 3 LEVELS	DISK	
10/06/20	PT MATURITY	PT VERSION	12_3 INCH REDUCER	
SHEET SIZE	SCALE	FT STATUS	DRAWING NUMBER	
-	NTS	-	II/ICH/12_3"	
THIRD ANGLE PROJECTION	NO. OF SETS	05	REDUCER/03	
			SHEET REVISION R STATUS	
			03	

Spacereservation for the banner

Spacereservation for the banner



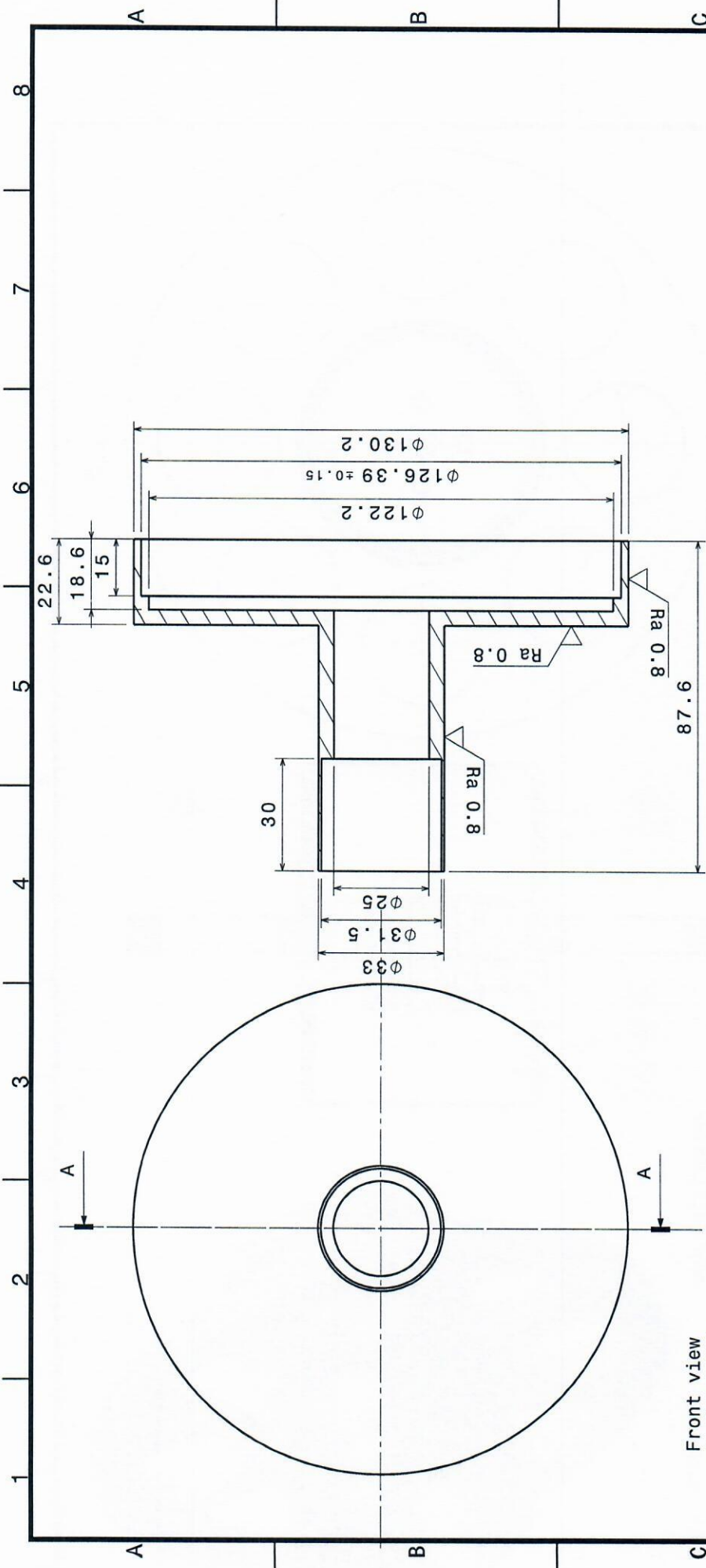
Section view H-H
Scale: 1:1

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

Spacereservation for the banner
Spacereservation for the banner

DRAWING TITLE		12_3 INCH REDUCER	
LINKED EWS PT ID		P A/ESH/	
APPROVED BY		P A/ESH/	
CHECKED BY		P A/ESH/	
CONTROLLED BY		P A/ESH/	
REV DATE		10/06/20	
SHEET SIZE		NTS	
THIRD ANGLE PROJECTION		NO. OF SHTS	
PT MATERIAL		PT STATUS	
PT VERSION		PT LEVELS	
DRAWN BY		DRAWING NUMBER	
CHECKED BY		REDUCER/03	
CONTROLLED BY		SHEET REVISION PR STATUS	
DRAWING TITLE		04	
BLOCK			
ITER INDIA (IPR) GANDHINAGAR			
CONFIDENTIAL UNLESS AUTHORISED			
The information on this drawing is confidential under the terms of the IPR India agreement. This information is not to be disclosed to anyone who is not authorized to receive it.			
ITER-India			

1 2 3 4 5 6 7 8



Front view
Scale: 1:1

Section view A-A
Scale: 1:1

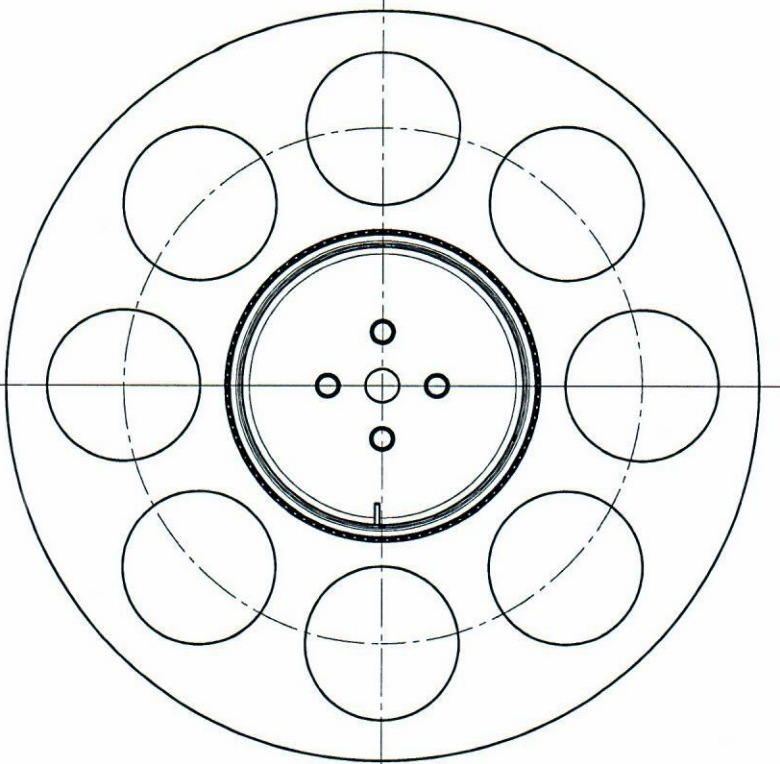
MATERIAL: ETP COPPER
QTY.:01

ITER-India		ITER INDIA (IPR) GANDHINAGAR	
CONFIDENTIAL UNLESS AUTHORISED			
The information on this drawing is confidential and shall not be transmitted to anyone who is not authorised to receive it.			
DRAWING NUMBER		DRAWING TITLE	
II/ICH/12_3" REDUCER/03		IC REDUCER	
SHEET REVISION PK STATUS		12_3 INCH REDUCER	
05			
REV DATE	PT MATURITY	PT STATUS	NO. OF SHEETS
10/06/20			05
SCALE		THIRD ANGLE PROJECTION	
NTS		NO. OF SHEETS	
		05	
REV DATE	PT MATURITY	PT STATUS	NO. OF SHEETS
10/06/20			05
SCALE		THIRD ANGLE PROJECTION	
NTS		NO. OF SHEETS	
		05	
REV DATE	PT MATURITY	PT STATUS	NO. OF SHEETS
10/06/20			05
SCALE		THIRD ANGLE PROJECTION	
NTS		NO. OF SHEETS	
		05	

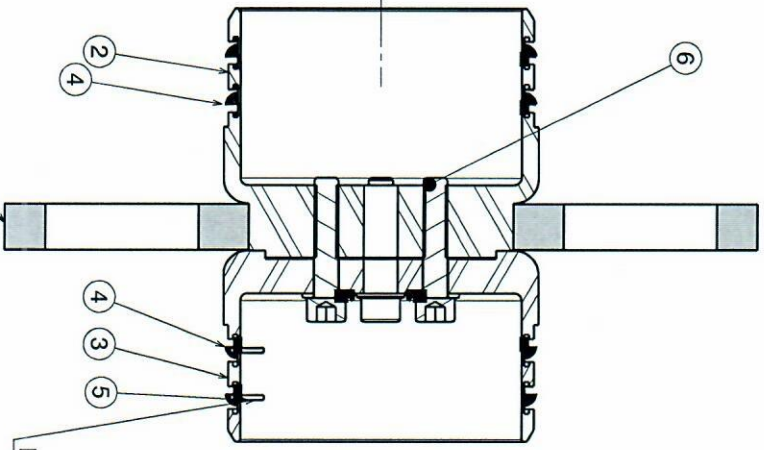
Spacereservation for the banner

Spacereservation for the banner

Front view
Scale: 1:2



Section view A-A
Scale: 1:2



Isometric view
Scale: 1:2

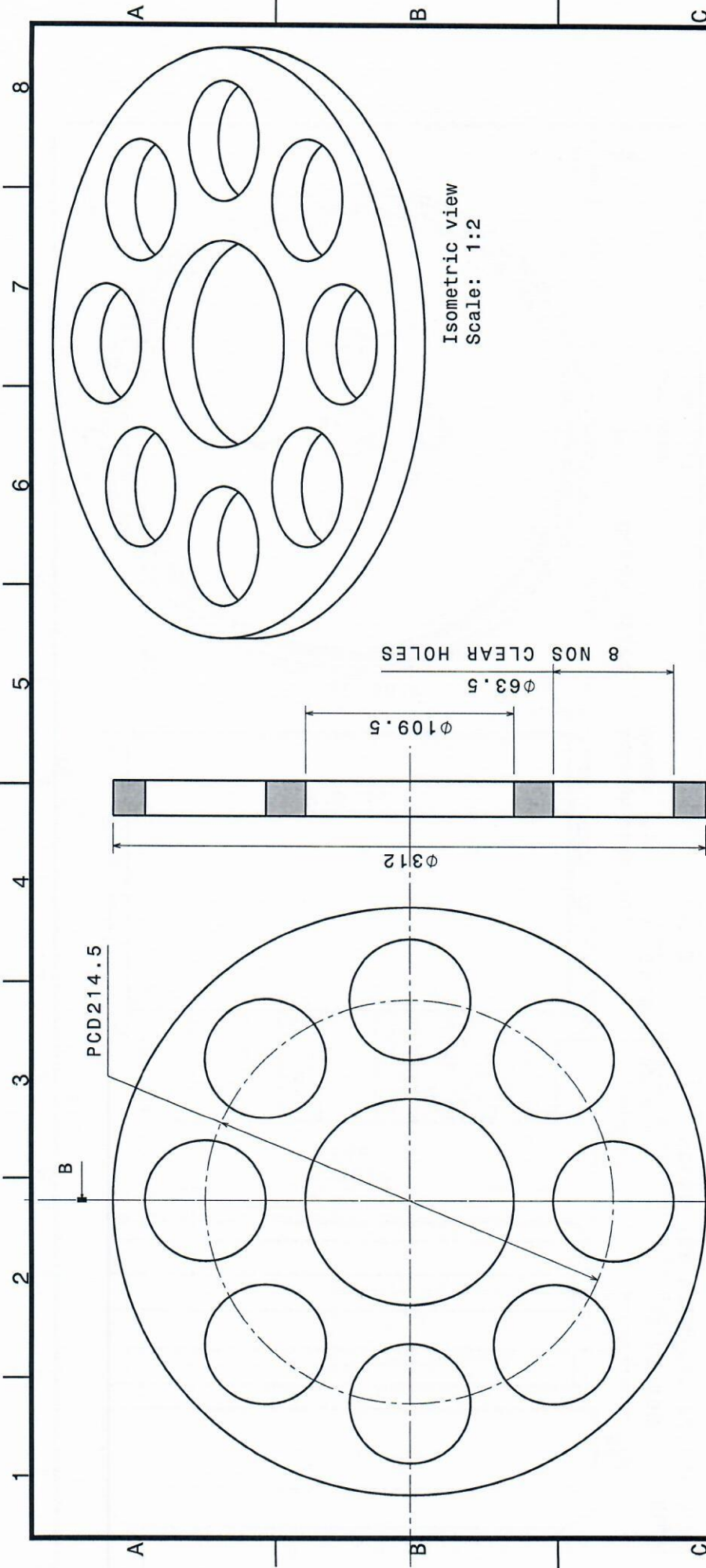


PART NO	PART NAME	DESCRIPTION / MATERIAL	QTY
6	BOLT AND WASHER M10 X 50L	SS 304	4
5	PIN DIAMETER 2 X 10 LENGTH	SS 304	4
4	IC FINGER CONTACT	FREE ISSUE	4
3	IC FEMALE	BRASS 60:40	1
2	IC MALE	BRASS 60:40	1
1	TEFLON DISK	TEFLON	1

ITER INDIA (IPR) GANDHINAGAR CONFIDENTIAL UNLESS AUTHORIZED The information on this drawing is confidential under the terms of the ITER India agreement. This information is not authorized to be used by anyone who is not authorized to receive it.		RELEASED BY APPROVED BY P A/ESH CHECKED BY	
ITER DOC ID LINKED REV PT ID PDS TITLE		DRAWN BY P A/ESH SHEET 3 LEVELS	
REV DATE 01/06/19 SHEET SIZE NTS THIRD ANGLE PROJECTION		PER MANUFACTURE PT STATUS NO. OF SHEETS 04	
DRAWING NUMBER II/ICH/12_3" REDUCER/04		SHEET REVISION NO. 01	
12 INCH IC JOINT ASSEMBLY			

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

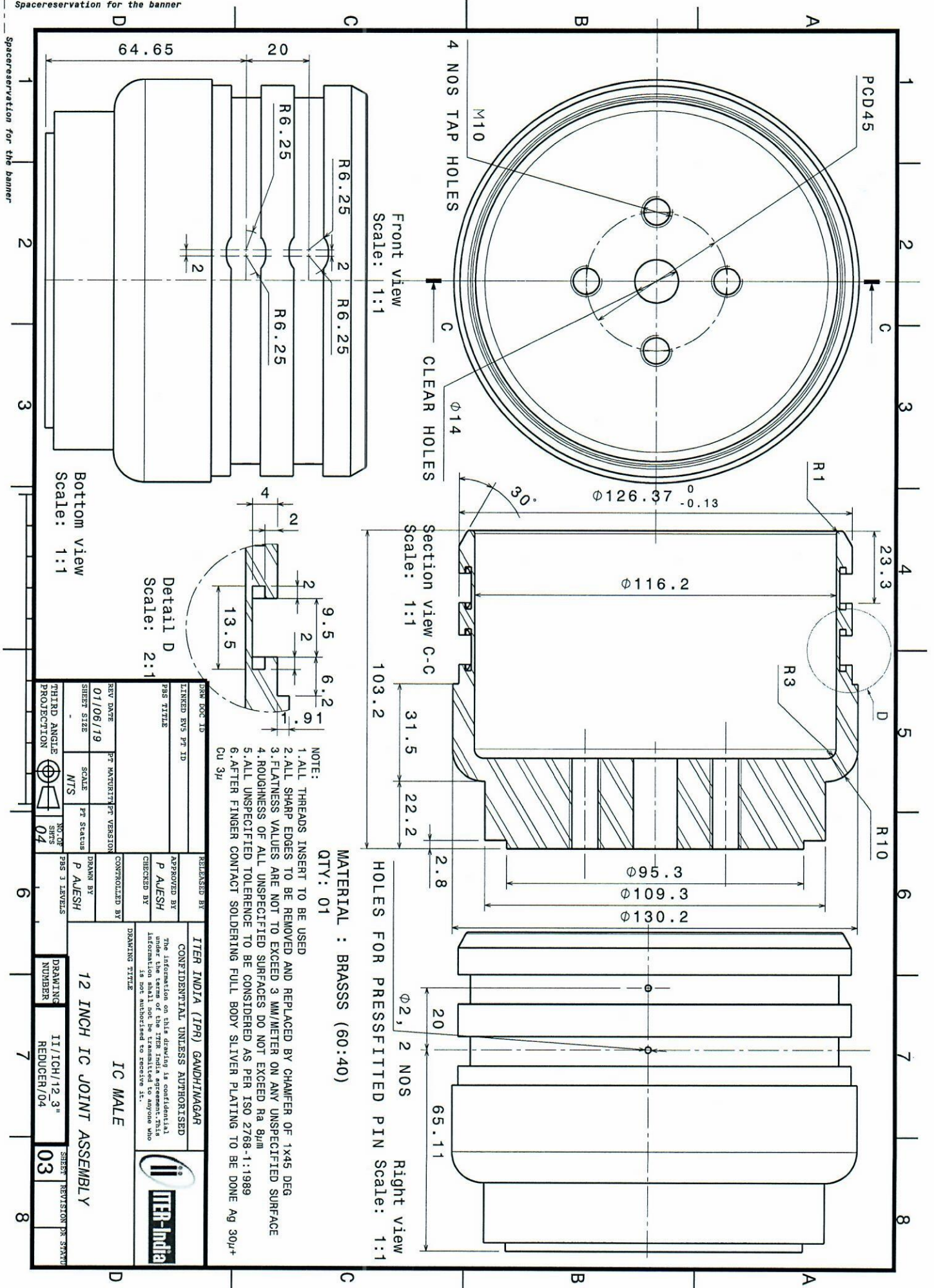
Spacereservation for the banner

LINKED ENVS FT ID	RELEASED BY ITER INDIA (IPR) GANDHINAGAR	CONFIDENTIAL UNLESS AUTHORIZED		
PBS TITLE	APPROVED BY P AJESH	The information on this drawing is confidential and shall not be transmitted to anyone who is not authorized to receive it.		
REV DATE	FT MATURITY	FT VERSION	CONTROLLED BY	TEFLON DISK
01/06/19			DRAWN BY P AJESH	
SHEET SIZE	SCALE	FT STATUS	CHECKED BY	12 INCH IC JOINT ASSEMBLY
	NTS			
THIRD ANGLE PROJECTION	NOT OF SHS	04	PBS 3 LEVELS	DRAWING NUMBER II/ICH/12_3 REDUCER/04
				SHEET REVISION DR STATUS 02

1 2 3 4 5 6 7 8

Spacereservation for the banner

Spacereservation for the banner



Front view
Scale: 1:1

Section view C-C
Scale: 1:1

Detail D
Scale: 2:1

Bottom view
Scale: 1:1

Right view
Scale: 1:1

MATERIAL : BRASSSS (60:40)
QTY: 01

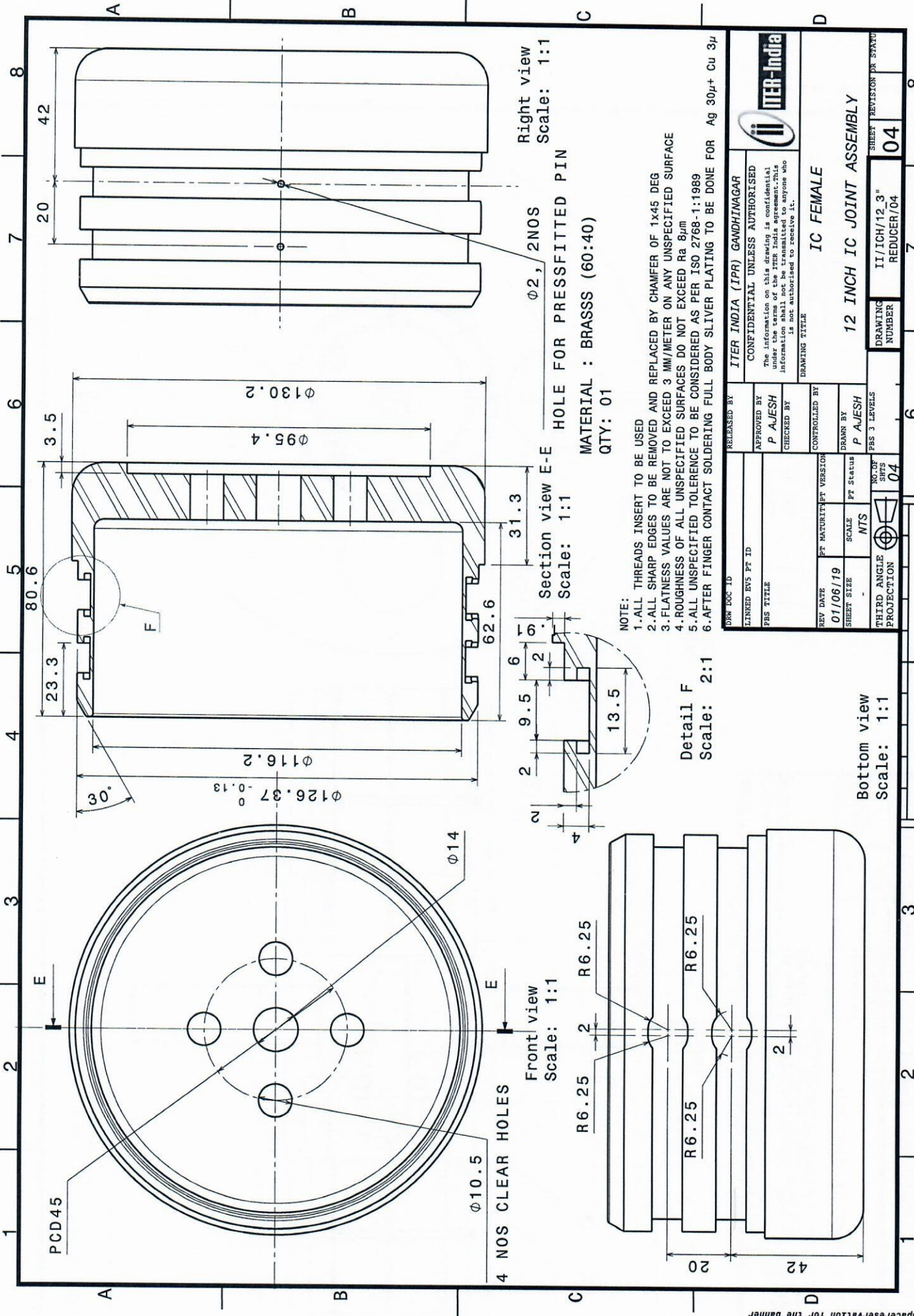
- NOTE:
1. ALL THREADS INSERT TO BE USED
 2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1X45 DEG
 3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
 4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8µm
 5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989
 6. AFTER FINER CONTACT SOLDERING FULL BODY SLIVER PLATING TO BE DONE Ag 30µ+

DRAWN BY P. AJESH		CHECKED BY P. AJESH		CONTROLLED BY		RELEASED BY ITER INDIA (IPR) GAWDHINAGAR	
REV DATE 01/06/19		PT. MAJORITY NTS		PT. STATUS P. AJESH		CONFIDENTIAL UNLESS AUTHORIZED	
SHEET SIZE NTS		SCALE NTS		DRAWING NUMBER 12 INCH IC JOINT ASSEMBLY		ITER India	
THIRD ANGLE PROJECTION		NO. OF SHEETS 04		DRAWING REDUCER/04		SHEET REVISION NO. 03	

IC MALE

12 INCH IC JOINT ASSEMBLY

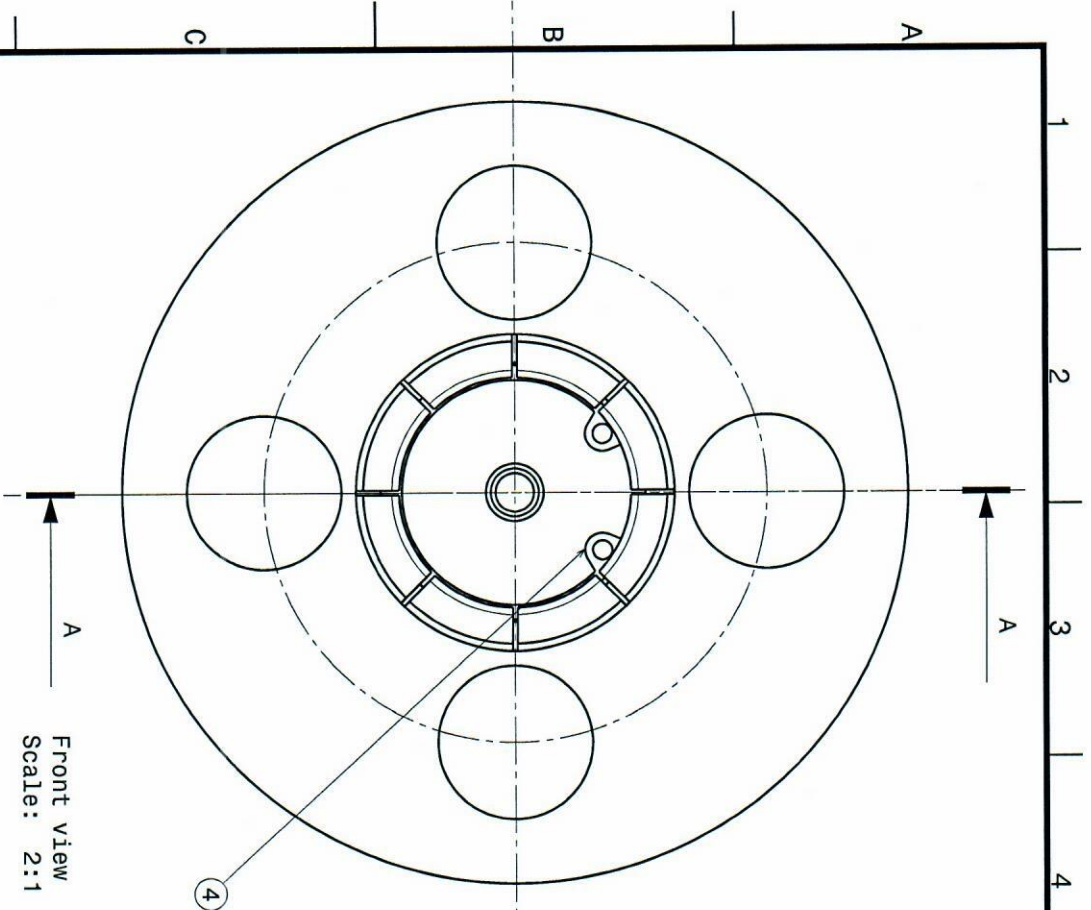




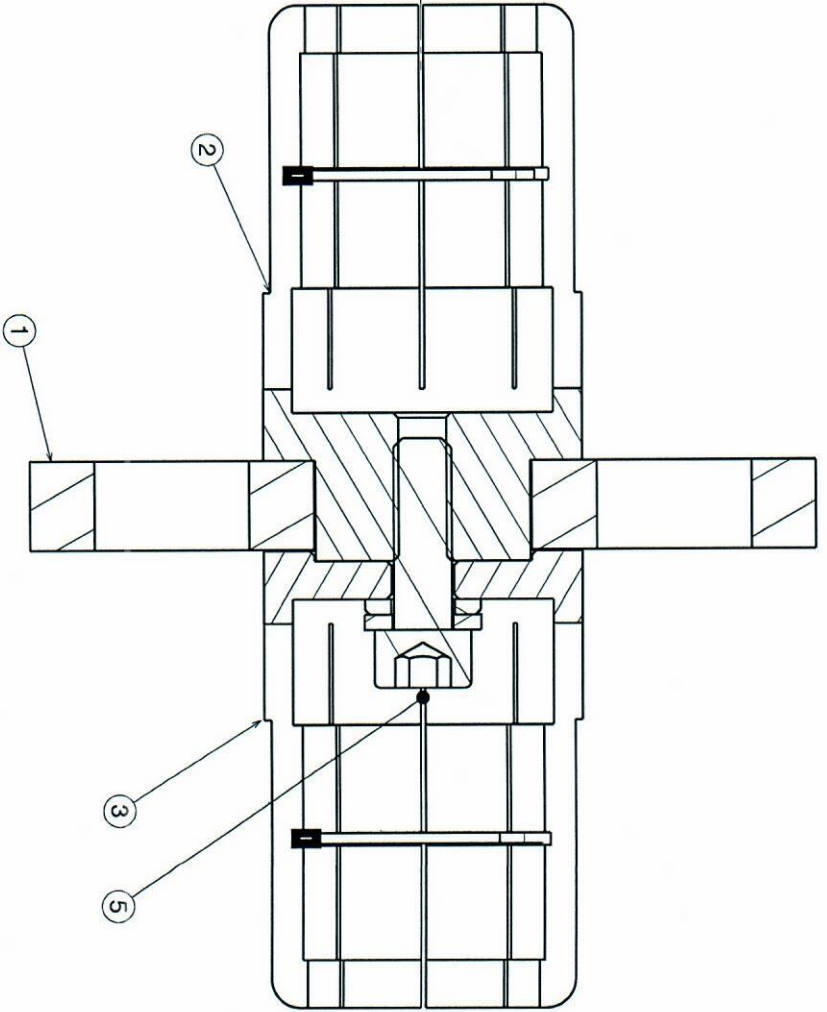
Spacereservation for the banner

Spacereservation for the banner

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



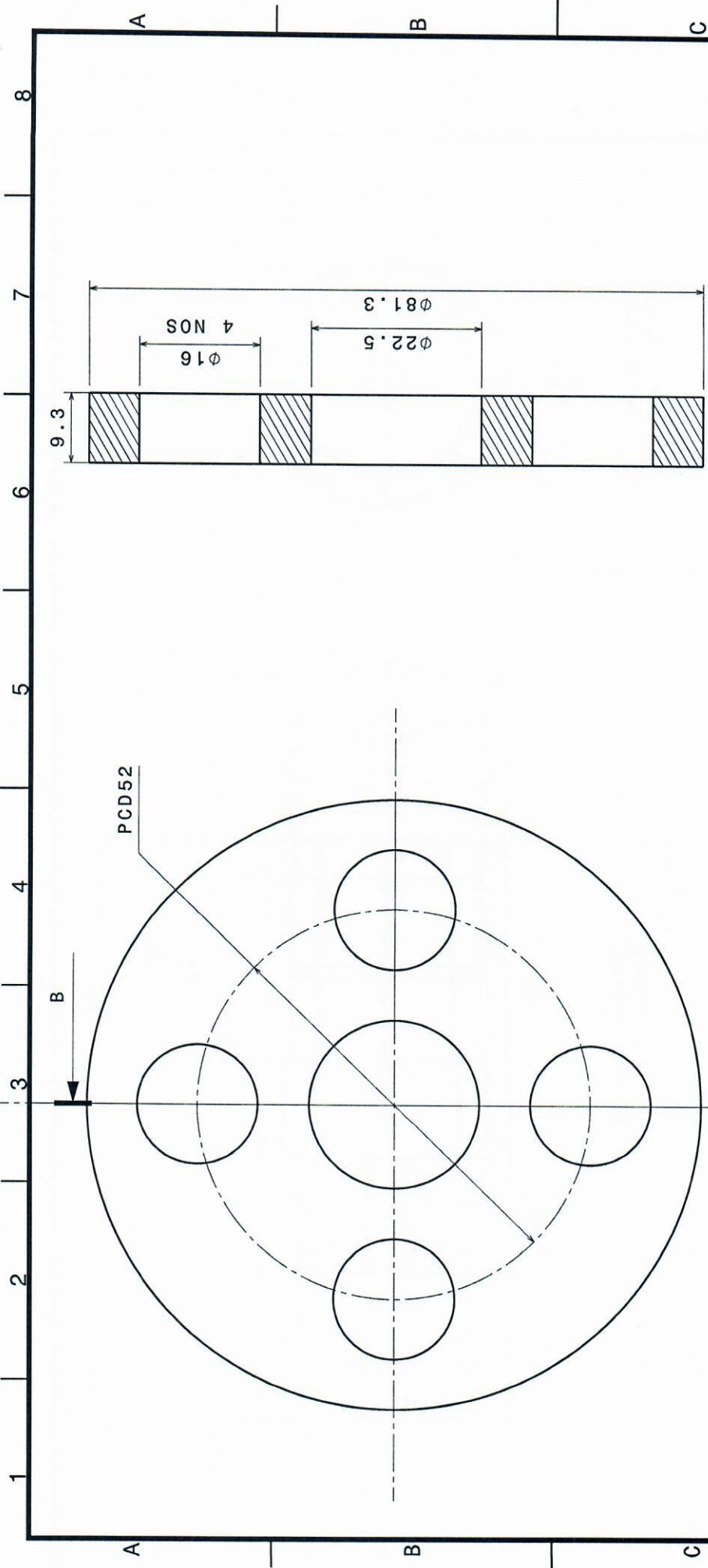
Front view
Scale: 2:1



Section view A-A
Scale: 2:1

DRW NO: 10	RELEASED BY	ITER INDIA (IPR) GANDHINAGAR
LINERD RV5 PT ID	APPROVED BY	P. A. JESH
PBS TITLE	CHECKED BY	P. A. JESH
REV DATE	PT MATURITY	PT VERSION
01/10/17	SCALE	PT STATUS
SHEET SIZE	NTS	NO. OF SHEETS
05	05	05
THIRD ANGLE PROJECTION	NO. OF SHEETS	05
ITER INDIA (IPR) GANDHINAGAR	CONFIDENTIAL UNLESS AUTHORIZED	
The information on this drawing is confidential and its disclosure to anyone who is not authorized to receive it.		
DRAWING TITLE		
3-1/8" INCH IC JOINT ASSEMBLY		
DRAWING NUMBER	II/TCH/12_3"	SHEET REVISIONS PER DRAWING
REDUCER/05	01	

Spacereservation for the banner



Section view B-B
Scale: 2:1

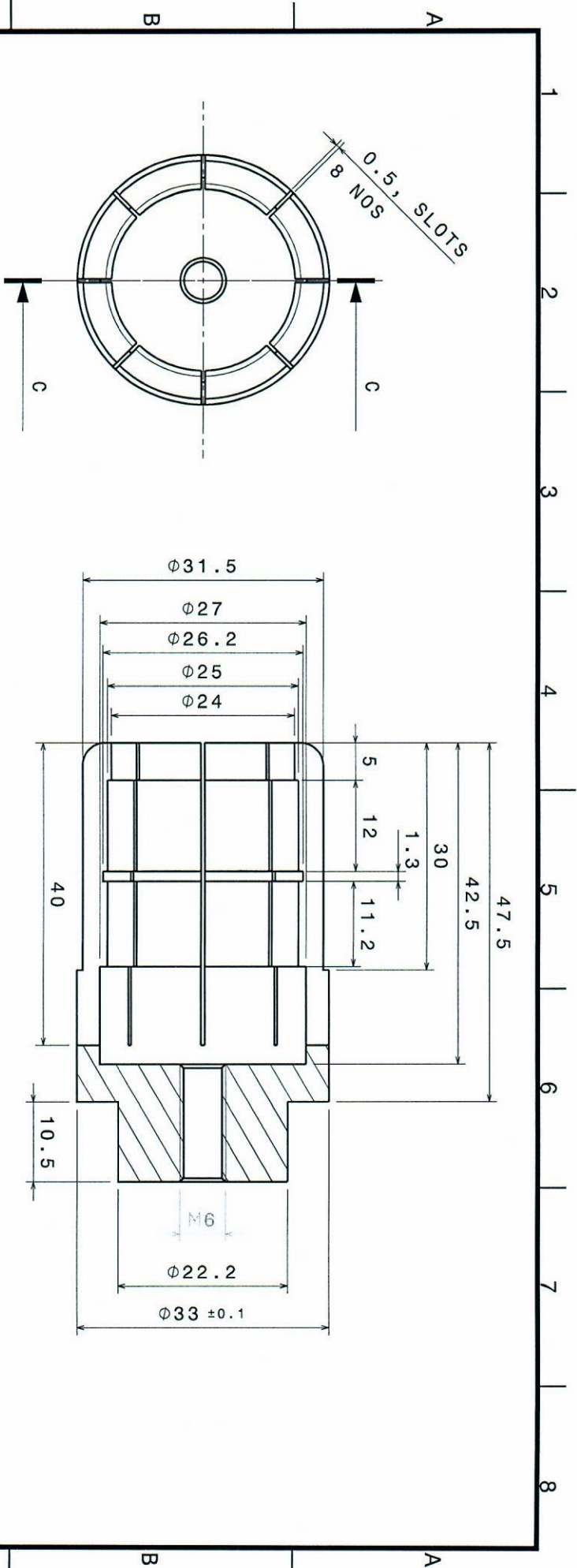
Front view
Scale: 2:1

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

CSW DOC ID LINKED EV5 FT ID PDS TITLE		RELEASED BY ITER INDIA (IPR) GANDHINAGAR CONFIDENTIAL UNLESS AUTHORISED The information on this drawing is confidential under the terms of the license agreement. This information shall not be disseminated to anyone who is not authorized to receive it.			
REV DATE 01/10/17		APPROVED BY P AJESH		DRAWING TITLE TEFLON DISK	
SHEET SIZE NTS		CHECKED BY		3-1/8" IC JOINT ASSEMBLY	
THIRD ANGLE PROJECTION		CONTROLLED BY		SHEET REVISION DR STATUS 02	
NO. OF SPTS 05		DRAWN BY P AJESH		REDUCER/05	
FT MAJORITY FT VERSION		PBS 3 LEVELS			
SCALE FT STATUS					

Spacreservation for the banner

Spacreservation for the banner



Front view
Scale: 2:1

Section view C-C
Scale: 2:1

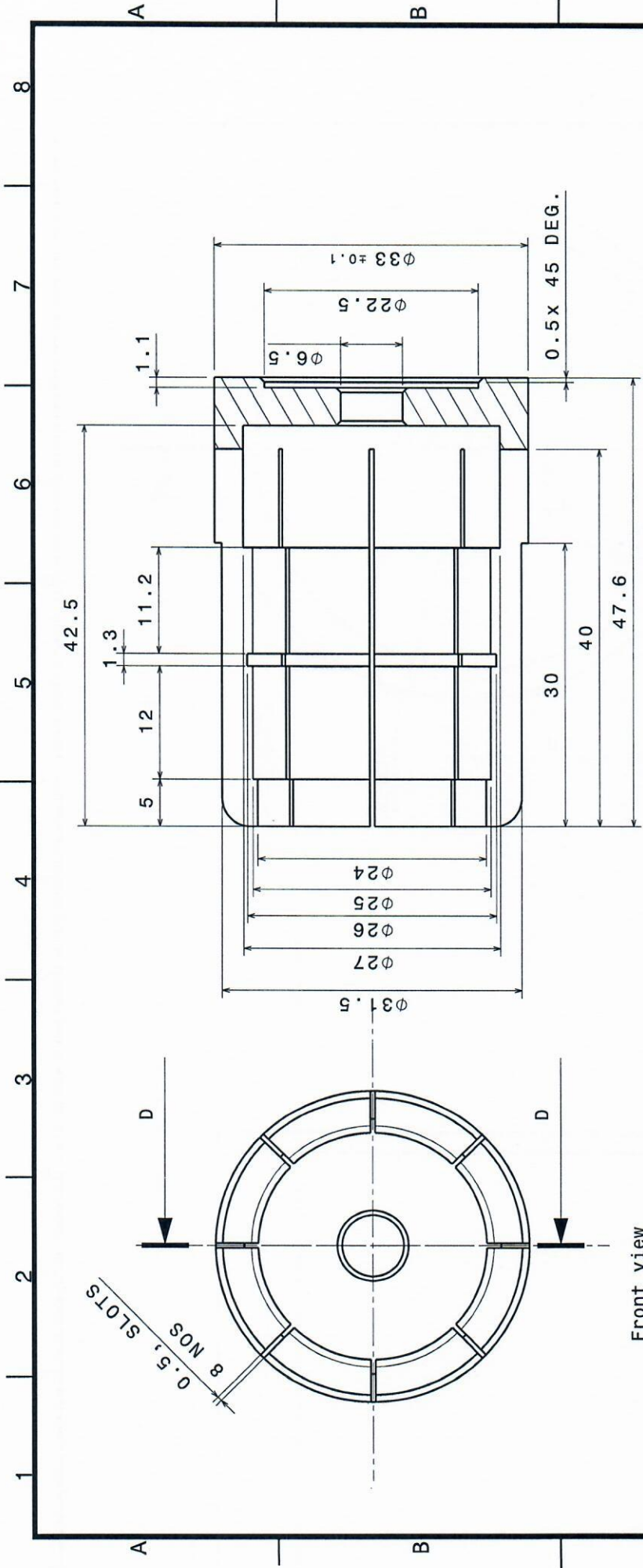
MATERIAL : BRASS (60:40)
QTY: 01

- 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 SILVER PLATING TO BE DONE FOR 50µ

DWG DOC ID		RELEASED BY		ITER INDIA (IPR) GANDHINAGAR		
LINED EWS PR ID		APPROVED BY		CONFIDENTIAL UNLESS AUTHORIZED		
PDS TITLE		CHECKED BY		The information on this drawing is confidential. Information shall not be transmitted to anyone who is not authorized to receive it.		
REV DATE		CONTROLLING BY		DRAWING TITLE		
SHEET SIZE		DRAWN BY		3-1/8" IC JOINT ASSEMBLY		
SCALE		PDS 3 LEVELS		DRAUGHT NUMBER		
PT MATURITY		PDS 3 LEVELS		II/ICH/12_3"		
PT VERSION		PDS 3 LEVELS		REDUCER/05		
NO OF SHTS		05		SHEET REVISION DR STATUS		
THIRD ANGLE PROJECTION				03		

Spacereservation for the banner

Spacereservation for the banner

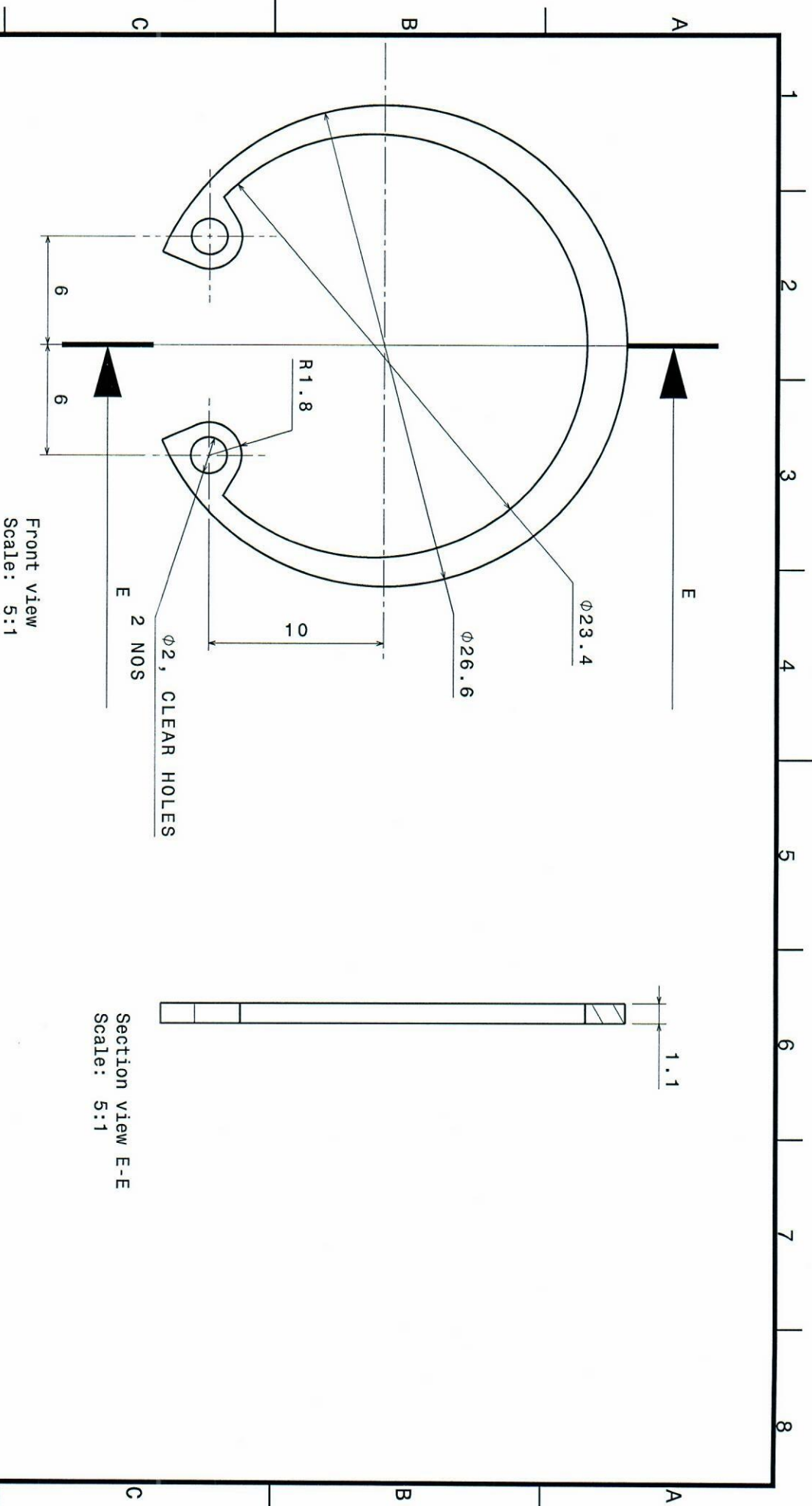


Section view D-D
Scale: 5:2

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		ITER-India	
CONFIDENTIAL UNLESS AUTHORISED		CONFIDENTIAL UNLESS AUTHORISED		CONFIDENTIAL UNLESS AUTHORISED	
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DRAWING NUMBER		DRAWING NUMBER		DRAWING NUMBER	
II/ICH/12_3"		II/ICH/12_3"		II/ICH/12_3"	
REDUCER/05		REDUCER/05		REDUCER/05	
SHEET REVISION DR STATUS		SHEET REVISION DR STATUS		SHEET REVISION DR STATUS	
04		04		04	
D		D		D	
IC JOINT FEMALE		IC JOINT FEMALE		IC JOINT FEMALE	
3-1/8" IC JOINT ASSEMBLY		3-1/8" IC JOINT ASSEMBLY		3-1/8" IC JOINT ASSEMBLY	
RELEASED BY		RELEASED BY		RELEASED BY	
P AJESH		P AJESH		P AJESH	
APPROVED BY		APPROVED BY		APPROVED BY	
P AJESH		P AJESH		P AJESH	
CHECKED BY		CHECKED BY		CHECKED BY	
CONTROLLED BY		CONTROLLED BY		CONTROLLED BY	
DRAWN BY		DRAWN BY		DRAWN BY	
P AJESH		P AJESH		P AJESH	
SHEET SIZE		SHEET SIZE		SHEET SIZE	
NTS		NTS		NTS	
SCALE		SCALE		SCALE	
PT STATUS		PT STATUS		PT STATUS	
PT MATURITY		PT MATURITY		PT MATURITY	
PT VERSION		PT VERSION		PT VERSION	
REV DATE		REV DATE		REV DATE	
01/10/17		01/10/17		01/10/17	
LINKED EVS PT ID		LINKED EVS PT ID		LINKED EVS PT ID	
PBS TITLE		PBS TITLE		PBS TITLE	
ITER INDIA (IPR) GANDHINAGAR		ITER INDIA (IPR) GANDHINAGAR		ITER INDIA (IPR) GANDHINAGAR	
THIRD ANGLE PROJECTION		THIRD ANGLE PROJECTION		THIRD ANGLE PROJECTION	
NO OF SHEETS		NO OF SHEETS		NO OF SHEETS	
05		05		05	
1		1		1	
2		2		2	
3		3		3	
4		4		4	
5		5		5	
6		6		6	
7		7		7	
8		8		8	



Front view
Scale: 5:1

Section view E-E
Scale: 5:1

MATERIAL : SS 304
QTY : 02

DRAWN DOC ID		RELEASED BY		ITER INDIA (IPR) GANDHINAGAR	
FINED BY PT ID		APPROVED BY		CONFIDENTIAL UNLESS AUTHORIZED	
PDS TITLE		P AVESH		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		CONTROLLED BY		DRAWING TITLE	
01/10/17		AJAY VALA		3-1/8" IC JOINT ASSEMBLY	
SHEET SIZE		PT STATUS		DRAWING NUMBER	
NTS		05		II/ICH/12.3"	
THIRD ANGLE PROJECTION		PDS 3 LEVELS		REDUCER/05	
SHEET NO		REVISION		PT STATUS	
05		05		PT STATUS	



Spacereservation for the banner

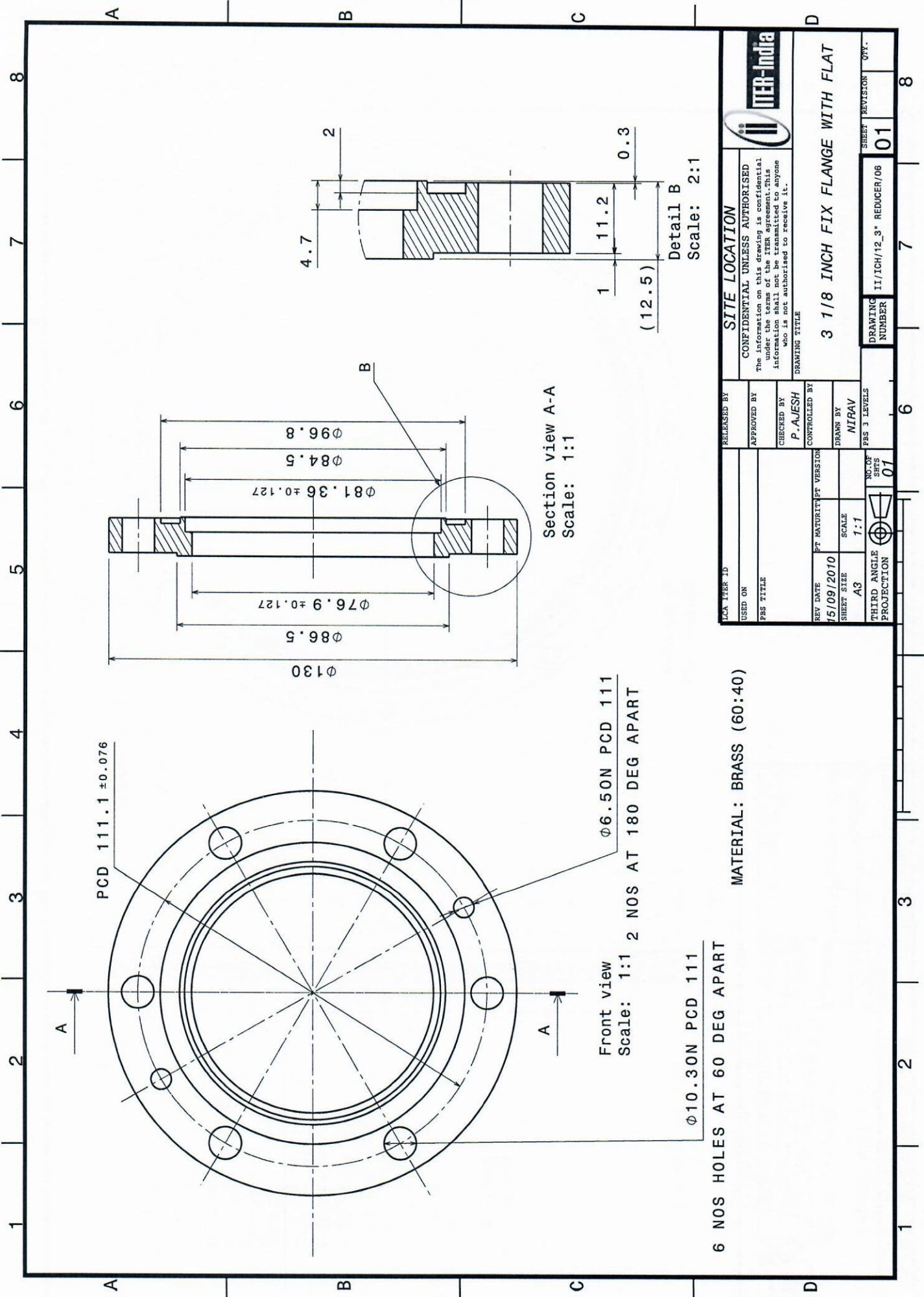
Spacereservation for the banner

Spacereservation for the banner

Spacereservation for the banner

Spacereservation for the banner

Spacereservation for the banner



TER-India CONFIDENTIAL UNLESS AUTHORIZED The information on this drawing is confidential under the terms of the TER agreement. This information shall not be transmitted to anyone who is not authorized to receive it. DRAWING TITLE		SITE LOCATION 3 1/8 INCH FIX FLANGE WITH FLAT	
RELEASED BY USED ON PDS TITLE	APPROVED BY CHECKED BY P. AJESH CONTROLLED BY	DRAWN BY NIRAV PDS 3 LEVELS	SHEET REVISION QTY. 01
REV DATE 15/09/2010 SHEET SIZE A3 THIRD ANGLE PROJECTION	PT MATURITY/PT VERSION SCALE 1:1	NO. OF SETS 01	DRAWING NUMBER 11/1CH/12_3* REDUCER/06

MATERIAL: BRASS (60:40)

6 NOS HOLES AT 60 DEG APART
 PCD 111.1

Front view
 Scale: 1:1
 2 NOS AT 180 DEG APART
 PCD 111

Detail B
 Scale: 2:1

Section view A-A
 Scale: 1:1

Spacereservation for the banner

Spacereservation for the banner

2

3

6

7

8

NOTE:

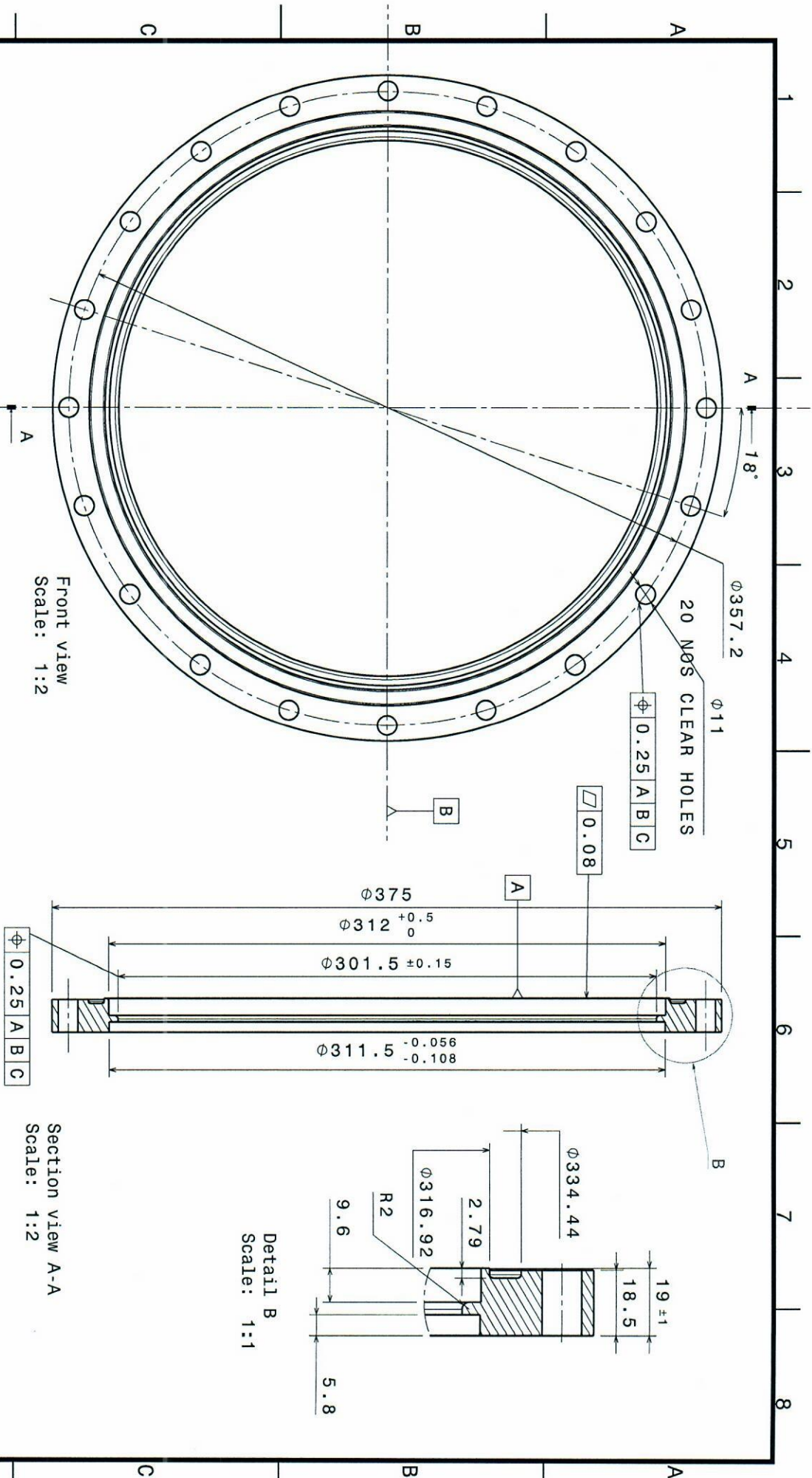
1. ALL THREADS INSERT TO BE USED
2. ALL SHARP EDGES TO BE REMOVED AND REPLACED BY CHAMFER OF 1 X 45 DEG
3. FLATNESS VALUES ARE NOT TO EXCEED 3 MM/METER ON ANY UNSPECIFIED SURFACE
4. ROUGHNESS OF ALL UNSPECIFIED SURFACES DO NOT EXCEED Ra 8.3 μm
5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

MATERIAL : ALUMINIUM 6061 T6
 QTY. : 01 NOS

Front view
 Scale: 1:2

Section view A-A
 Scale: 1:2

Detail B
 Scale: 1:1

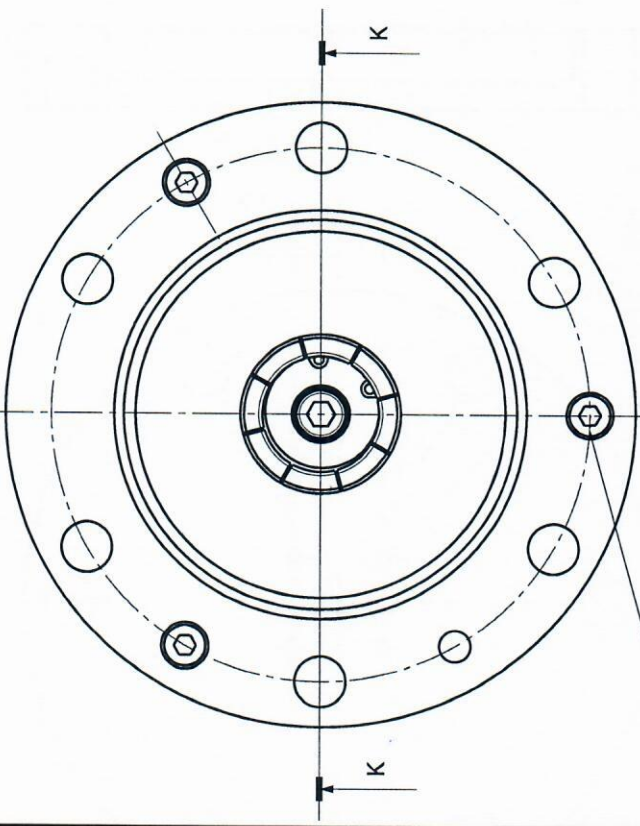


DWG NO: 10		REVISED BY		ITER INDIA (IPR) GANDHINAGAR	
LINKED ENVS, PT ID		APPROVED BY		CONFIDENTIAL UNLESS AUTHORISED	
P ASH		P ALESU		The information on this drawing is confidential under the terms of the IPR India agreement. This information is not authorized to receive it.	
REV DATE		CHECKED BY		DRAWING TITLE	
10/06/2020		P ALESU		12 INCH FIX FLANGE	
SHEET SIZE		DRAWN BY		12_3 INCH REDUCER	
NTS		P ALESU		II/10H/12_3"	
SCALE		CONTROLLED BY		REDUCER/07	
NTS		P ALESU		01	
PT MATURITY		SHEET REVISION PR SYNO			
PT VERSION					
NO OF SHEETS					
01					
THIRD ANGLE PROJECTION					

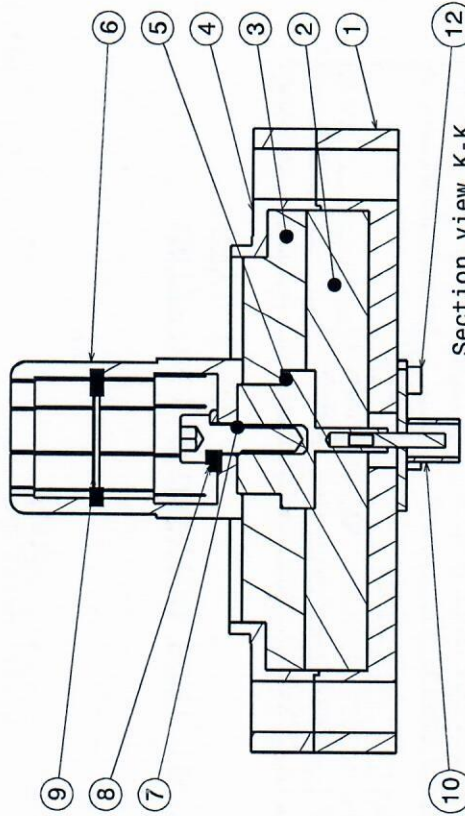


Annexure-II Engineering drawings

NOTE : SURFACE IRREGULARITIES, SCRATCHES, DENTS AND TOOL MARKS ARE NOT ALLOWED.



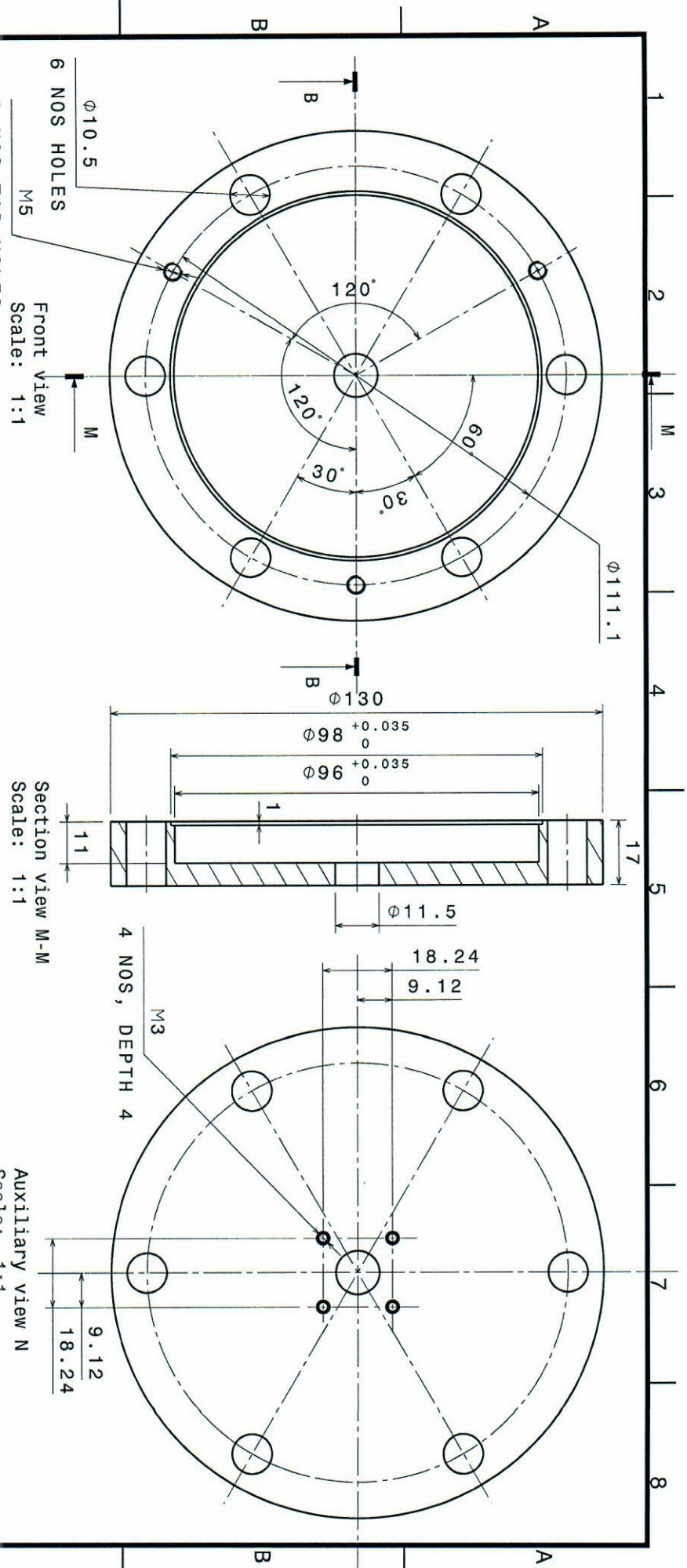
Front view
Scale: 1:1



Section view K-K
Scale: 1:1

PART NO	PART NAME	DESCRIPTION / MATERIAL	QTY
12	SCREW M3 X 6L	SS 304	4
11	SCREW M5 X 16 L	SS 304	3
10	N TYPE CONNECTOR	STD	1
9	INTERNAL CIRCLIP	SS 304	1
8	WASHER FOR M6	SS 304	1
7	SCREW M6 X 16L	SS 304	1
6	IC FEMALE	BRASS (60:40)	1
5	IC	BRASS (60:40)	1
4	3-1/8" FIX FLANGE PART-I	ALUMINIUM 6061 T6	1
3	TEFLON 1	TEFLON	1
2	TEFLON 2	TEFLON	1
1	3-1/8" FIX FLANGE PART-II	ALUMINIUM 6061 T6	1

DRW DOC ID	RELEASED BY	ITER INDIA (IPR) GANDHINAGAR
LINKED EVS PT ID	APPROVED BY	CONFIDENTIAL UNLESS AUTHORISED
PT TITLE	P. A. JESH	The information on this drawing is confidential under the terms of the ITER India agreement. This information is not to be disclosed to anyone who is not authorised to receive it.
REV DATE	CHECKED BY	ROHIT
PT MATURITY/PT VERSION	CONTROLLED BY	
SHEET SIZE	DRAWN BY	SAGAR
420x297	SCALE	1:1
THIRD ANGLE PROJECTION	NO. OF SHEETS	09
	ITER-India	
	3 TO N TYPE REDUCER ASSEMBLY	
	DRAWING NUMBER	ITER/REDUCER/3-01
	N/00	01



MATERIAL: ALUMINIUM 6061-T6
 QTY: 1 NO

Section view B-B
 Scale: 1:1

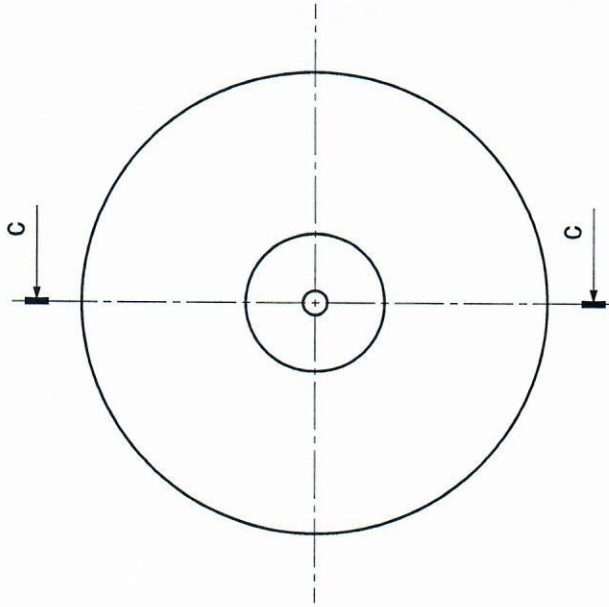
Section view M-M
 Scale: 1:1

Auxiliary view N
 Scale: 1:1

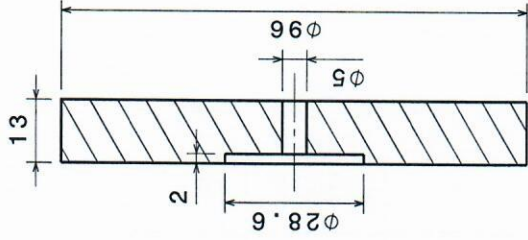
NOTE: SURFACE IRREGULARITIES, SCRATCHES, DENTS AND
 TOOL MARKS ARE NOT ALLOWED.

PRW 806 1B		RELEASED BY		TIER INDIA (IPR) GANDHINAGAR	
LINED BY 55 PT ID		APPROVED BY		CONFIDENTIAL UNLESS AUTHORIZED	
PDS TITLE		P. AJESH		The information on this drawing is confidential unless the sender has specifically indicated otherwise. It is not authorized to be reproduced or transmitted in any form or by any means electronic, mechanical, photocopying, recording, or by any information storage and retrieval system without the prior written permission of the sender.	
REV DATE		CONTROLLED BY		DRAWING TITLE	
PR MATURITY		AKHIL		3-1/8" FIX FLANGE PART-II	
PR STATUS		SAGAR		3 TO N TYPE REDUCER ASSEMBLY	
SHEET SIZE		SCALE		DRAWING NUMBER	
420x297		1:2		II/ICH/REDUCER/3-02	
THIRD ANGLE PROJECTION		NO. OF SHRS		SHEET REVISION DR STATUS	
09		3 LEVELS		N/00	

Spacereservation for the banner
 1 2 3 4 5 6 7 8



Front view
Scale: 1:1

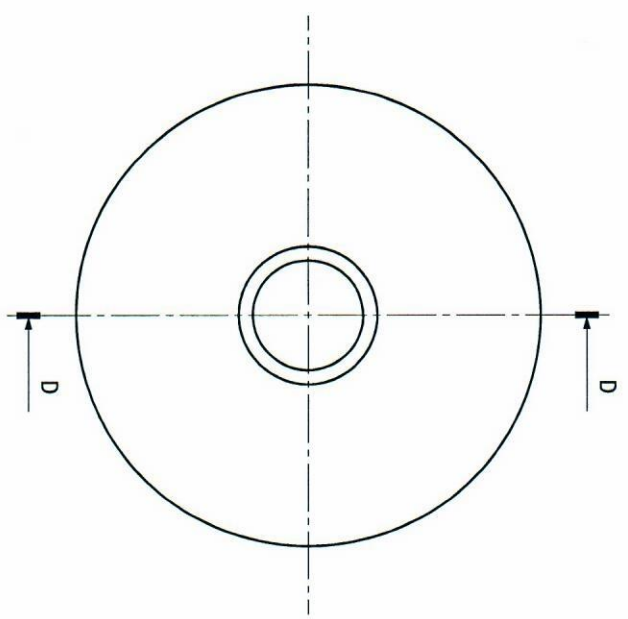


Section view C-C
Scale: 1:1

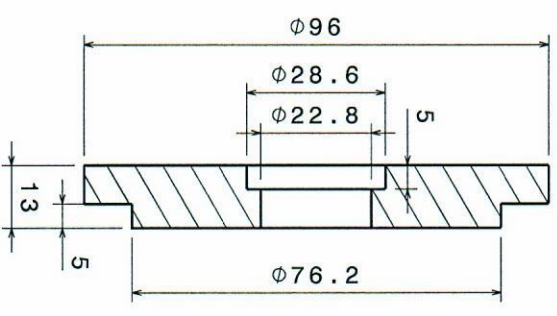
MATERIAL: TEFLON ROD PTFE ASTM D1710-8, 11B/ TEFLON PLATE PTFE ASTM D3294-03, 11A
QTY: 1 NO.

NOTE: SURFACE IRREGULARITIES, SCRATCHES, DENTS AND
TOOL MARKS ARE NOT ALLOWED.

ORW DOC ID		RELEASED BY ITER INDIA (IPR) GANDHINAGAR		ITER-India	
LINKED EVS FT ID		CONFIDENTIAL UNLESS AUTHORISED			
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PBS TITLE		APPROVED BY P. AJESH		DRAWING TITLE TEFLON-2	
REV DATE		CHECKED BY AKHIL		3 TO N TYPE REDUCER ASSEMBLY	
FT MATURIT FT VERSION		CONTROLLED BY		DRAWING NUMBER N/00	
SHEET SIZE 420x297		DRAWN BY SAGAR		SHEET REVISION PR STATU 03	
SCALE 1:2		PBS 3 LEVELS		NO. OF SHEETS 09	
THIRD ANGLE PROJECTION					



Front view
Scale: 1:1



Section view D-D
Scale: 1:1

MATERIAL: TEFLON ROD PTFE ASTM D1710-8, 11B/ TEFLON PLATE PTFE ASTM D3294-03, 11A
QTY: 01 NO

NOTE: SURFACE IRREGULARITIES, SCRATCHES, DENTS AND
TOOL MARKS ARE NOT ALLOWED.

REV DATE	REV DESCRIPTION	REV DATE	REV DESCRIPTION
420X297			
THIRD ANGLE PROJECTION			
NO. OF SHTS	09		
DRW NO	420X297		
SCALE	1:2		
PT STATUS			
PT VERSION			
PT MATERIAL			
PT ID			
LINKED ENVS			
PT TITLE			
APPROVED BY	P. A. ESH		
CHECKED BY	AKHIL		
CONTROLLED BY			
DRAWN BY	SAGAR		
PT 3 LEVELS			
RELEASED BY			
ITER INDIA (IPR) GANDHINAGAR			
CONFIDENTIAL UNLESS AUTHORIZED			
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DRAWING TITLE	TEFLON-1		
DRAWING NUMBER	3 TO N TYPE REDUCER ASSEMBLY		
DRAWING I/I/TOCH/REDUCER/3-			
N/00			
SHEET REVISION NO	04		

Spacereservation for the banner

Spacereservation for the banner

2

3

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7

8

D

C

B

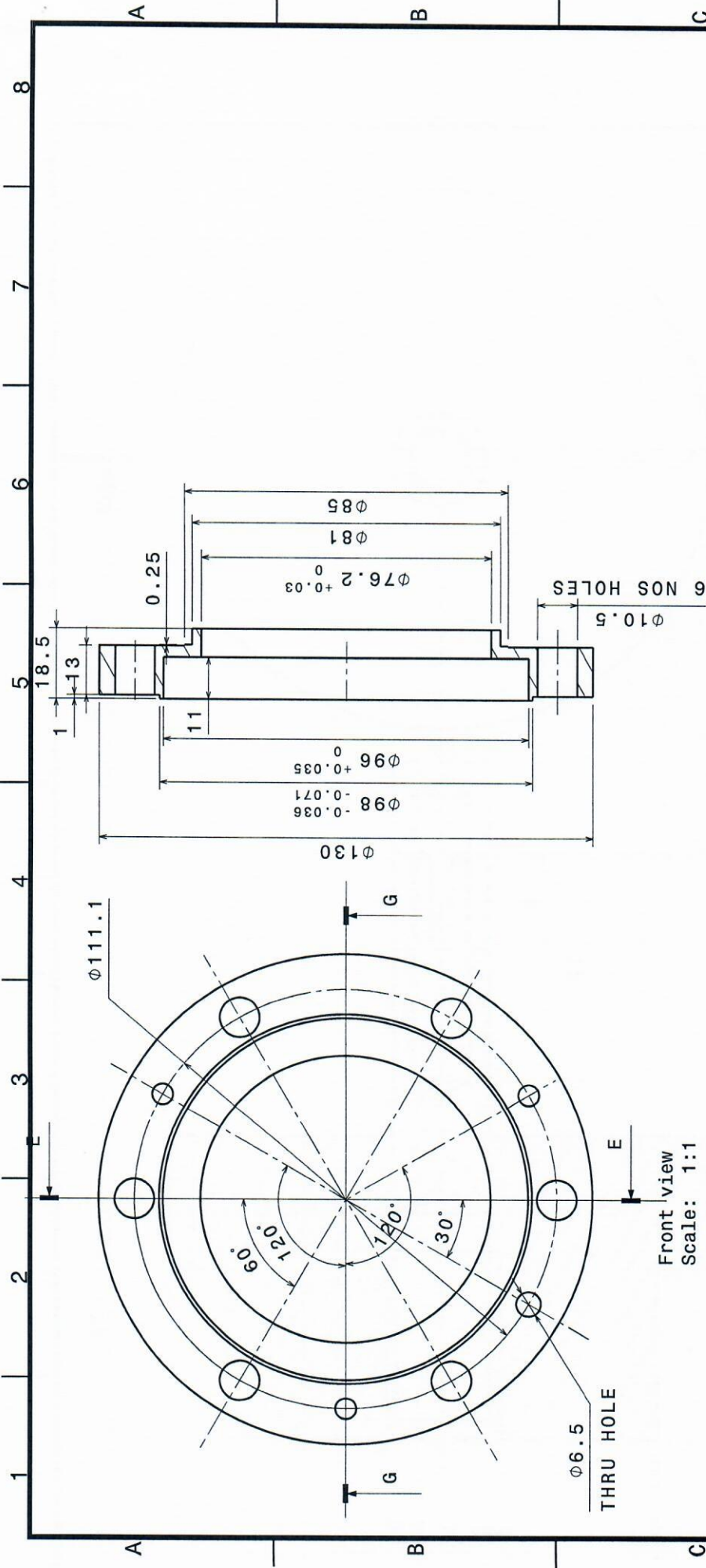
A

D

C

B

A



Section view E-E
Scale: 1:1

MATERIAL: ALUMINIUM 6061 T6
QTY: 01

Front view
Scale: 1:1

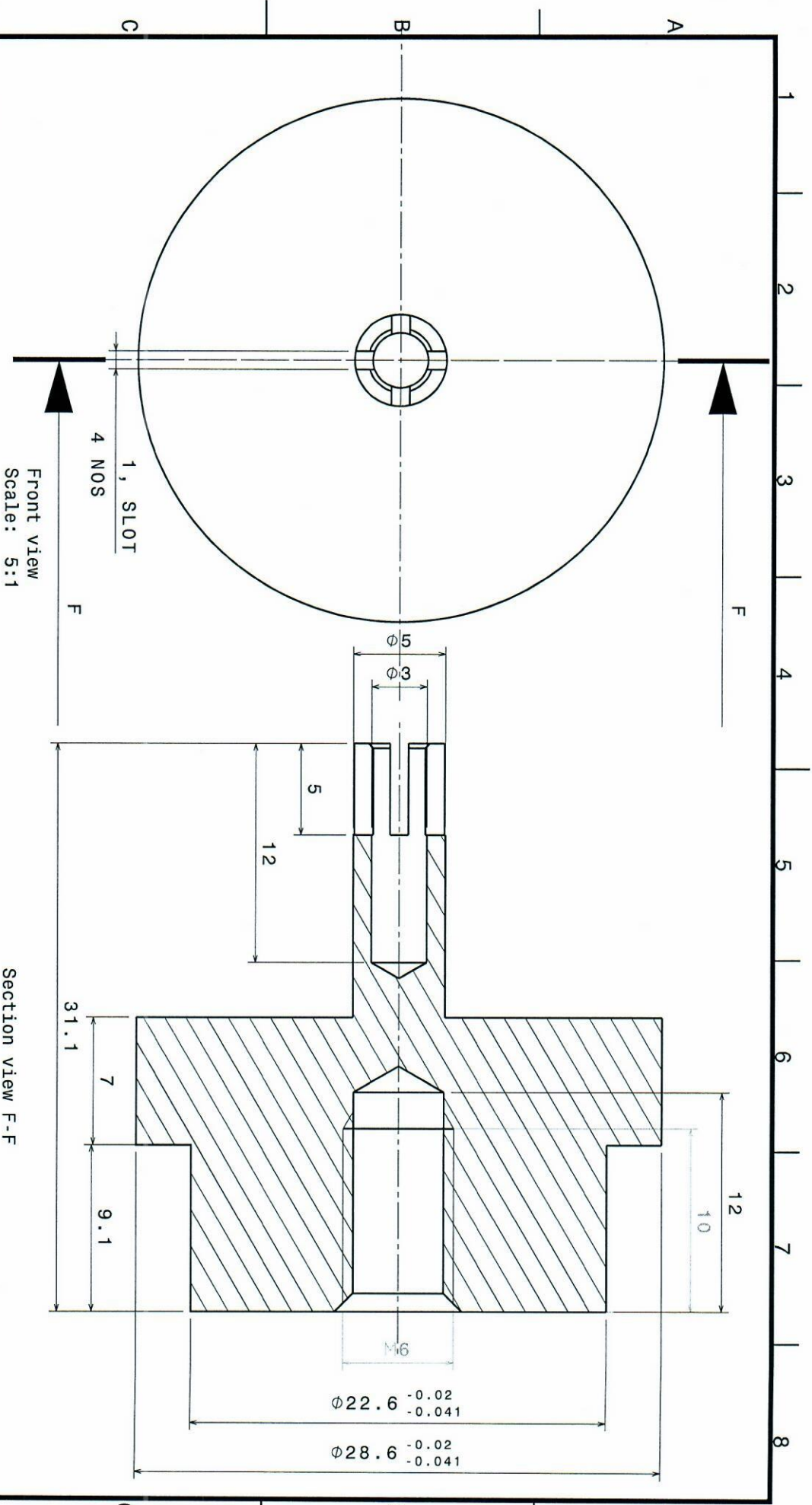
Section view G-G
Scale: 1:1

NOTE: SURFACE IRREGULARITIES, SCRATCHES, DENTS AND TOOL MARKS ARE NOT ALLOWED.

DRW DOC ID	RELEASED BY	ITER INDIA (IPR) GANDHINAGAR	
LINKED EVS FT ID	APPROVED BY	CONFIDENTIAL UNLESS AUTHORIZED	
PS TITLE	P. AJESH	The information on this drawing is confidential and its disclosure or reproduction of information shall not be transmitted to anyone who is not authorized to receive it.	
REV DATE	CHECKED BY	AKHIL	DRAWING TITLE
PF MATURITY FT VERSION	CONTROLLED BY		3-1/8" FIX FLANGE PART-I
SHEET SIZE	DRAWN BY	SAGAR	3 TO N TYPE REDUCER ASSEMBLY
SCALE	PS 3 LEVELS		
420x297	NO. OF SHEETS	09	
THIRD ANGLE PROJECTION	DRAWING NUMBER	II/ICH/REDUCER/3-N/00	SHEET REVISION PK SPAYU
			05

Spacereservation for the banner

Spacereservation for the banner



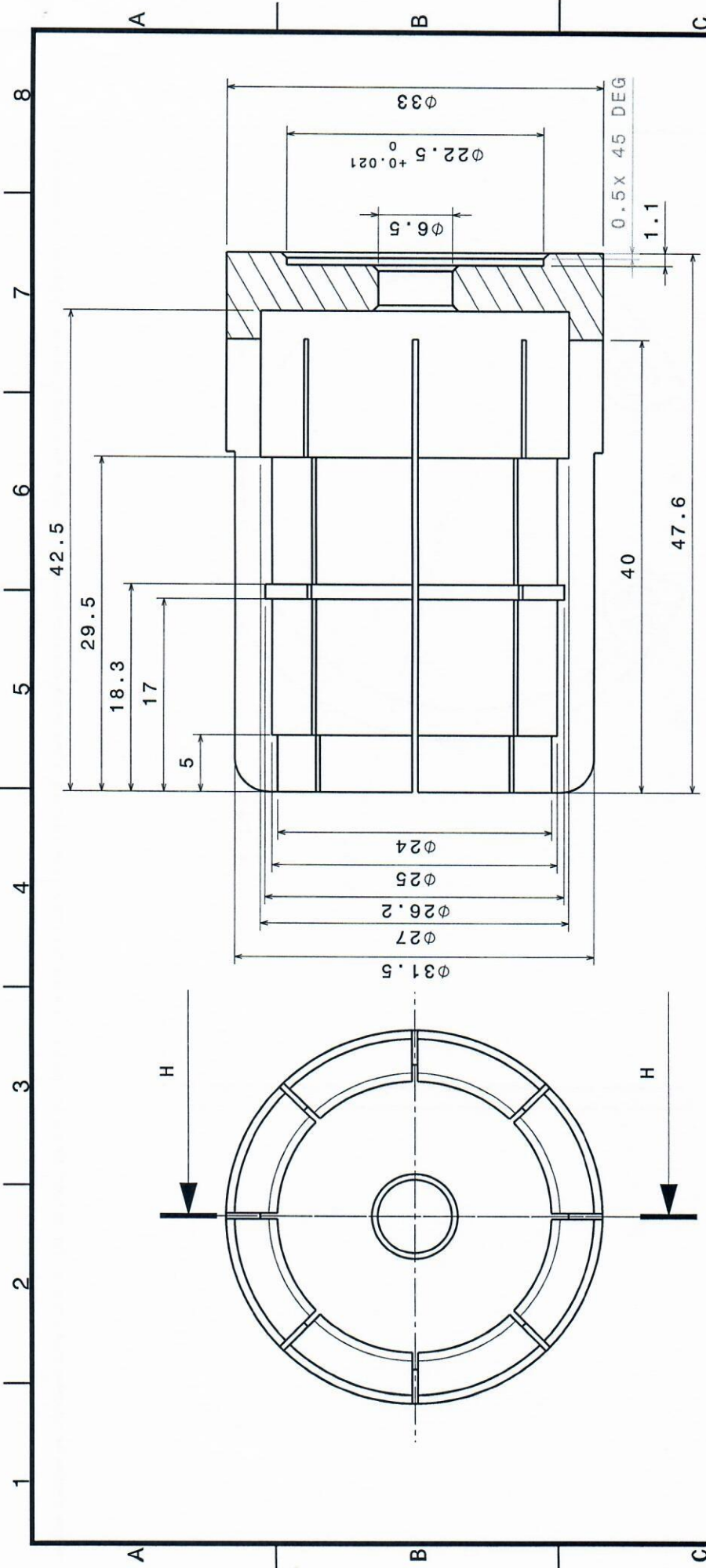
Front view
Scale: 5:1

Section view F-F
Scale: 5:1

MATERIAL: BRASS 60:40
 QTY: 01 NO
 FULL BODY SLIVER PLATING OF 50 MICRON
 NOTE: SURFACE IRREGULARITIES, SCRATCHES, DENTS AND
 TOOL MARKS ARE NOT ALLOWED.

ITER DOC-15		REV DATE		PT MATURITY		PT VERSION		NO. OF SHEETS		NO. OF SHRS	
LINKED EWS PT ID		PT Maturity		PT Status		SHEET SIZE		SCALE		PT STATUS	
P/S TITLE		APPROVED BY		CHECKED BY		420X297		1:2		SAGAR	
THIRD ANGLE PROJECTION		P. AJESH		AKHL		PROJECTION		THIRD ANGLE		DRAWING NUMBER	
RELEASED BY		ITER INDIA (IPR) GANDHINAGAR		DRAWING TITLE		3 TO N TYPE REDUCER ASSEMBLY		SHEET NUMBER		REVISION NO	
CONFIDENTIAL UNLESS AUTHORIZED		The information on this drawing is confidential under the terms of the ITER India agreement. This information is not authorized to be used by anyone who is not authorized to receive it.		ITER-India		ITER-India		06		06	

Spacereservation for the banner



Front view
Scale: 3:1

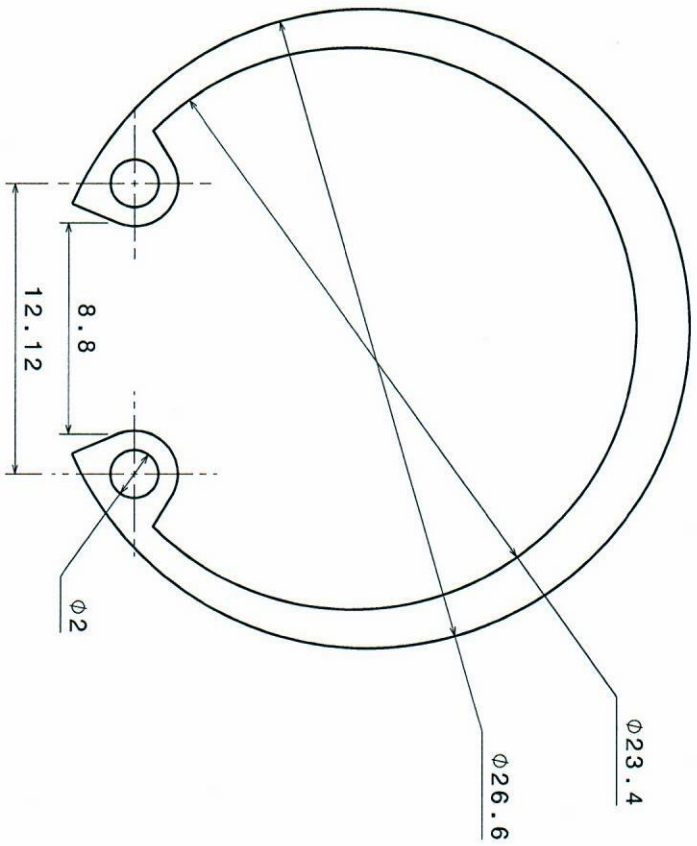
MATERIAL : BRASS (60 : 40)
QTY: 01 NOS

- NOTES:- (1) FILLET ALL EDGES R0.1 UNLESS OTHERWISE NOTED.
 (2) SURFACE FINISHING :- 2 DELTA
 (3) REMOVE ALL BURRS AND SHARP EDGES
 (4) SILVER PLATING OF 50 MICRON

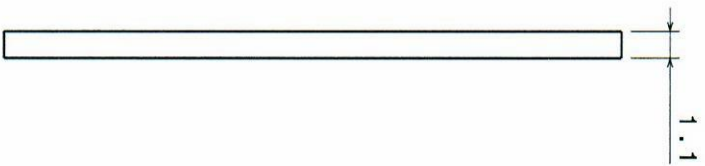
Section view H-H
Scale: 3:1

NOTE: SURFACE IRREGULARITIES, SCRATCHES, DENTS AND TOOL MARKS ARE NOT ALLOWED.

ITER-India		ITER INDIA (IPR) GANDHINAGAR	
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DRAWING NUMBER		DRAWING TITLE	
II/ICH/REDUCER		I.C. JOINT	
/3-N/00		3 TO N TYPE REDUCER ASSEMBLY	
07		SHEET REVISION DR SPATU	
09		PBS 3 LEVELS	
THIRD ANGLE PROJECTION		DRAWN BY SAGAR	
NO. OF SHEETS		CHECKED BY AKHIL	
09		CONTROLLED BY	
PT. Maturity		APPROVED BY P. AJESH	
PT. Status		RELEASED BY	
1:2		ITER INDIA (IPR) GANDHINAGAR	
420x297		CONFIDENTIAL UNLESS AUTHORISED	
SCALE		The information on this drawing is confidential and shall not be disclosed to any person without the written permission of the IPR. This information shall not be used by anyone who is not authorized to receive it.	
1:2		DRAWING TITLE	
I.C. JOINT		3 TO N TYPE REDUCER ASSEMBLY	



Front view
Scale: 5:1

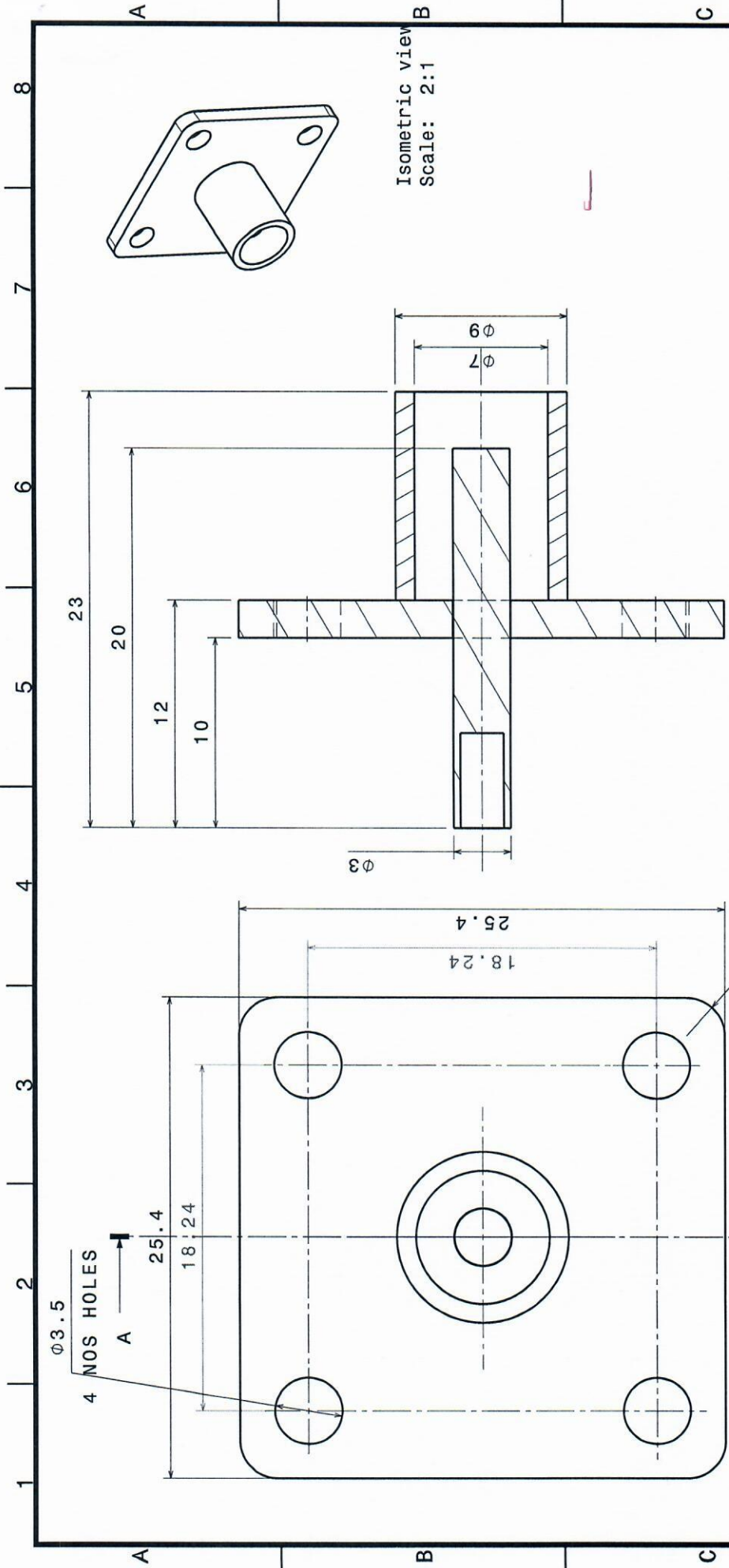


Right view
Scale: 5:1

MATERIAL : SS 304
QTY : 01 NOS

NOTE: SURFACE IRREGULARITIES, SCRATCHES, DENTS AND
TOOL MARKS ARE NOT ALLOWED.

DRW DOC ID		RELEASED BY	ITER INDIA (IPR) GANDHIMAGAR	
LINED BUS PR ID		APPROVED BY	CONFIDENTIAL UNLESS AUTHORIZED	
PAS TITLE		DRAWN BY	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		CHECKED BY	ITER-India	
SHEET SIZE	A4	CONTROLLED BY	DRAWING TITLE	
420x297		SAGAR	INTERNAL CIRCLIP	
PT MATERIAL	SS		3 TO N TYPE REDUCER ASSEMBLY	
SCALE	1:2		DRAWING NUMBER	
PT STATUS			IT/ICH/REDUCER/3-	
			N/00	
THIRD ANGLE PROJECTION			SHEET REVISION PR 3000	
			08	



Section view A-A
Scale: 5:1

Front view
Scale: 5:1

Isometric view
Scale: 2:1

MATERIAL : STD

DRAWING TITLE N TYPE CONNECTOR		ITER INDIA (IPR) GANDHINAGAR	
REV DATE		RELEASED BY	
SHEET SIZE 420x297		APPROVED BY P. AJESH	
SCALE 1:1		CHECKED BY AKHIL	
THIRD ANGLE PROJECTION		CONTROLLED BY	
NO. OF SHOTS 09		DRAWN BY SAGAR	
PT MATURED		PBS 3 LEVELS	
PT VERSION		DRAWING NUMBER N/00	
NO. OF SHOTS 09		SHEET REVISION DR. SPATU 09	

ITER-India
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