

Section view A-A
Scale: 1:5

5	M10X80 ALLEN HEX BOLT WITH NUT AND PLAN & SPRING WASHER	SS 304	60
4	FIX FLANGE	II/ICH/12"GAS BARRIER/04	2
3	12" FLANG DISK IC JOINT ASSEMBLY	II/ICH/12"GAS BARRIER/03	2
2	TEFLON DISK JOINT ASSEMBLY	II/ICH/12"GAS BARRIER/02	1
1	12" _GAS_OC_ASSEMBLY	II/ICH/12"GAS BARRIER/01	2
PART NO	PART NAME	DESCRIPTION / MATERIAL	QTY

** IMPORTANT DIMENSIONS.

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

ITER-India

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

REV DATE	PT MATURITE	PT VERSION
01/06/19		
SHEET SIZE	SCALE	PT STATUS
-	-	-
THIRD ANGLE PROJECTION	NO. OF SHES	01
RELEASED BY	APPROVED BY	CHECKED BY
	P AJESH	
CONTROLLED BY	DRAWN BY	
	AJAY	
FBS 3 LEVELS	DRAWING NUMBER	II/ICH/12" GAS BARRIER/00
SHEET REVISION PR SHANN	01	

12" GAS BARRIER ASSEMBLY

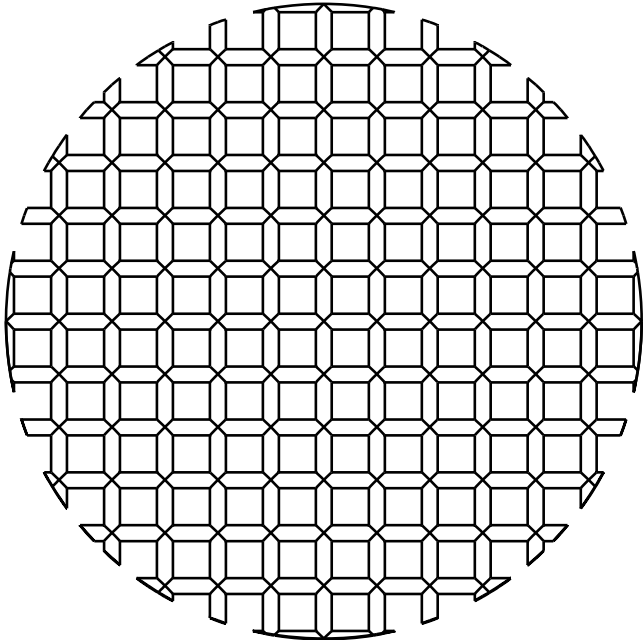
12345678

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Front view
Scale: 1:1



Right view
Scale: 1:1

WIRE MESH SIZE 10 X 10 X 3 MM
MATERIAL : ALUMINIUM 6061-T6

DRW DOC ID		RELEASED BY		ITER INDIA (IPR) GANDHINAGAR			
LINKED EV5 PT ID		APPROVED BY		CONFIDENTIAL UNLESS AUTHORISED			
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 authorised to receive it.			
		CHECKED BY		DRAWING TITLE			
REV DATE		PT MATURITE		WIRE MESH			
01/05/15				12" GAS BARRIER ASSEMBLY			
SHEET SIZE		SCALE		DRAWN BY			
-		NTS		AJAY VALA			
THIRD ANGLE PROJECTION		PT Status		PBS 3 LEVELS			
		NO-OF SHTS		DRAWING NUMBER			
		13		II/ICH/12"GAS BARRIER/01			
				SHEET REVISION PR SHAWU			
				03			

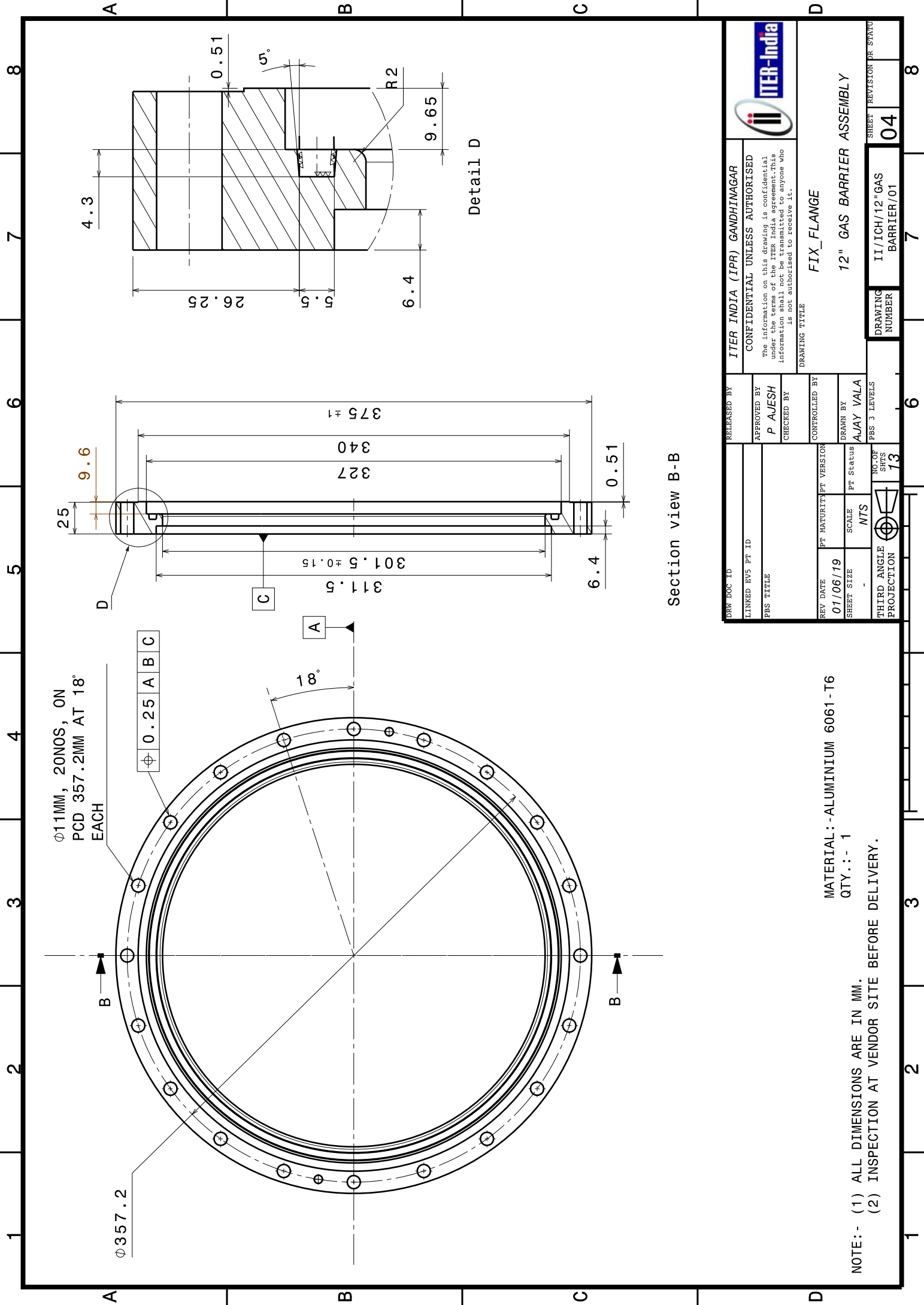
12345678

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Section view B-B

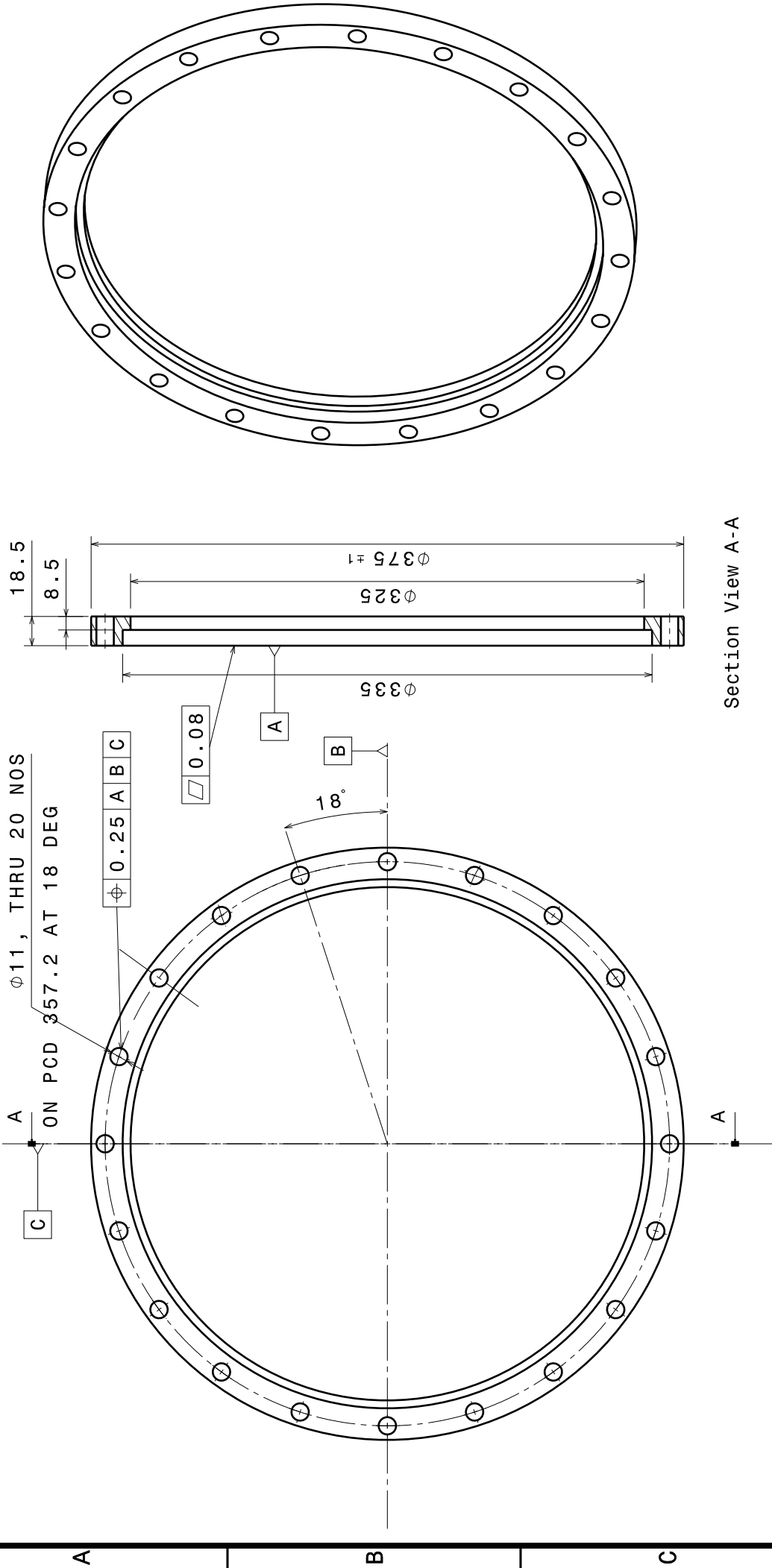
Spacereservation for the banner

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

MATERIAL:- ALUMINIUM 6061-T6
QTY:- 1

DRW DOC ID	RELEASED BY	ITER INDIA (IPR) GANDHINAGAR	ITER-India
LINKED EVS PT ID	APPROVED BY	CONFIDENTIAL UNLESS AUTHORISED	
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 authorised to receive it.	
REV DATE	CHECKED BY	DRAWING TITLE	
01/06/19	CONTROLLED BY	FIX_FLANGE	
SHEET SIZE	DRAWN BY	12" GAS BARRIER ASSEMBLY	
NTS	AJAY VALA	II/ICH/12" GAS BARRIER/01	
THIRD ANGLE PROJECTION	PBS 3 LEVELS	SHEET REVISION PR SHAWU	
NO. OF SHTS	13	04	

1 2 3 4 5 6 7 8



Section View A-A

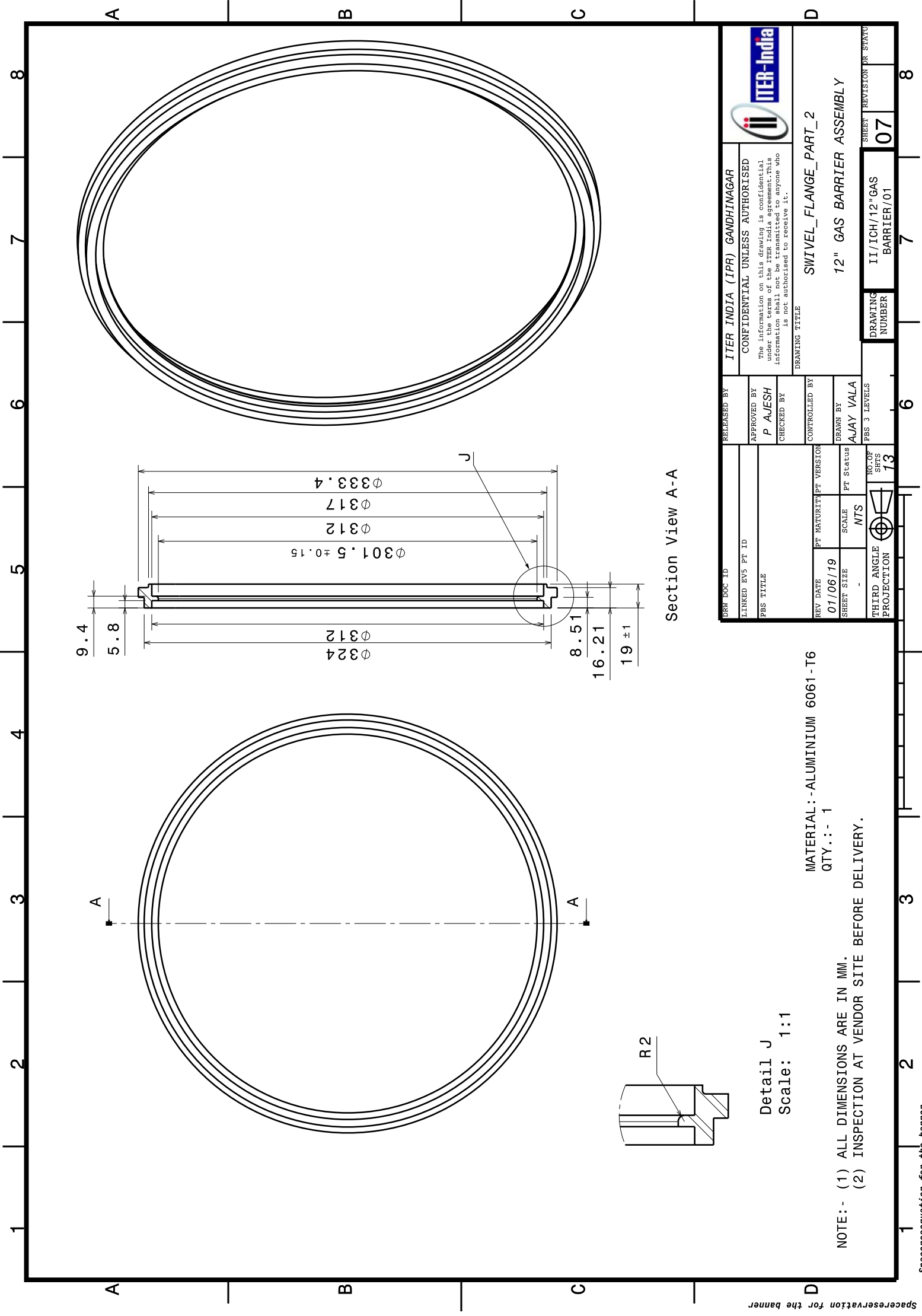
Spacereservation for the banner

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

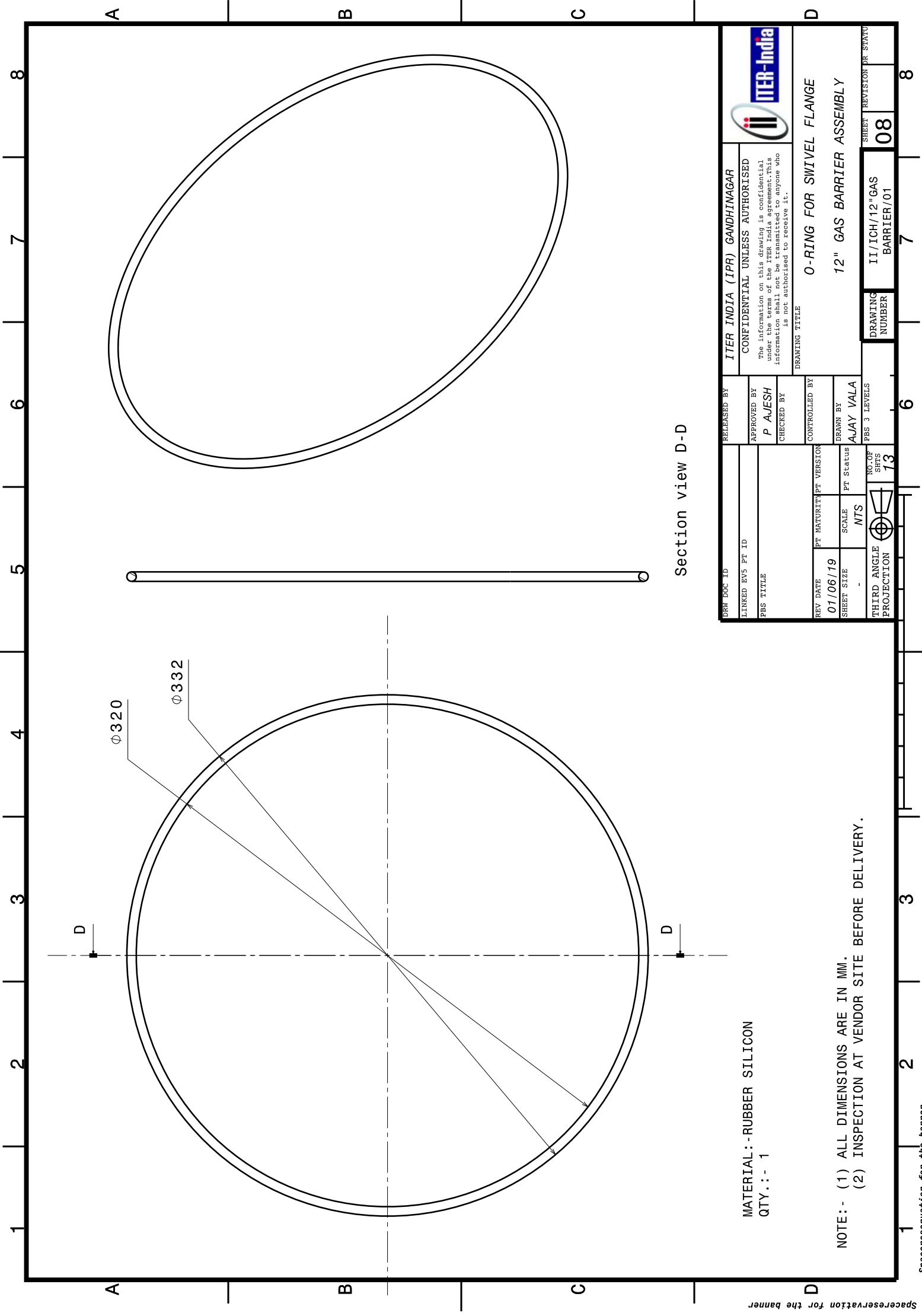
NOTE:- (1) ALL DIMENSIONS ARE IN MM.
(2) INSPECTION AT VENDOR SITE BEFORE DELIVERY.

ITER-India		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		SWIVEL_FLANGE_PART_1	
RELEASED BY		APPROVED BY	
P AJESH		P AJESH	
CHECKED BY		CONTROLLED BY	
AJAY VALA		AJAY VALA	
REV DATE		PT MATURITE PT VERSION	
01/06/19		PT Status	
SHEET SIZE		SCALE	
- NTS		PT Status	
THIRD ANGLE PROJECTION		NO. OF SHTS	
13		13	
DRAWING NUMBER		DRAWING NUMBER	
II/ICH/12"GAS BARRIER/01		II/ICH/12"GAS BARRIER/01	
SHEET REVISION OR SHAW		SHEET REVISION OR SHAW	
06		06	

Spacereservation for the banner



ITER India (IPR) Gandhinagar		ITER-India	
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.	
RELEASED BY		DRAWING TITLE	
APPROVED BY		SWIVEL_FLANGE_PART_2	
CHECKED BY		12" GAS BARRIER ASSEMBLY	
CONTROLLED BY		II/ICH/12"GAS BARRIER/01	
DRAWN BY		DRAWING NUMBER	
AJAY VALA		07	
PBS 3 LEVELS		SHEET REVISION OR SHAWU	
NO. OF SHOTS		13	
THIRD ANGLE PROJECTION		8	



Space reservation for the banner

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Section view D-D

MATERIAL:- RUBBER SILICON
QTY.:- 1

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

DRAW DOC ID		RELEASED BY		ITER INDIA (IPR) GANDHINAGAR					
LINKED EV5 PT ID		APPROVED BY		CONFIDENTIAL UNLESS AUTHORISED					
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 authorised to receive it.					
		CHECKED BY		DRAWING TITLE					
		CONTROLLED BY		O-RING FOR SWIVEL FLANGE					
REV DATE		PT MATURITE		12" GAS BARRIER ASSEMBLY					
01/06/19		SCALE		DRAWN BY					
		NTS		AJAY VALA					
SHEET SIZE				PBS 3 LEVELS					
				NO. OF SHOTS					
THIRD ANGLE PROJECTION				13		DRAWING NUMBER			
						II/ICH/12"GAS BARRIER/01			
						08			
						SHEET REVISION DR SHANU			

MATERIAL:- RUBBER SILICON
QTY.:- 1

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

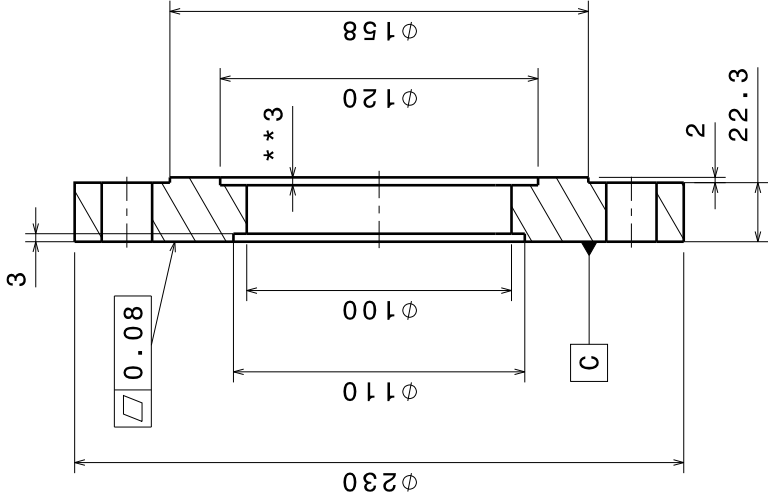
Φ19MM THRU HOLES 8 NOS, AT
45° ON PCD 190.5

0.25 A B C

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B

A



SECTION A-A

** TO SUIT WIRE MESH THICKNESS

NOTE:- FLANGE AS PER ASME B16.5 STANDARD SLIP-ON FLANGE.

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	ITER-India
LINKED EVS PT ID	APPROVED BY	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.	
PBS TITLE	CHECKED BY	DRAWING TITLE	
REV DATE	CONTROLLED BY	4" FLANGE FOR GAS INLET	
01/05/15	PT Maturity	12" GAS BARRIER ASSEMBLY	
SHEET SIZE	SCALE	II/ICH/12"GAS BARRIER/01	
-	PT Status	SHEET REVISION DR SHANU	
THIRD ANGLE PROJECTION	NO. OF SHOTS	DRAWING NUMBER	
13	13	09	

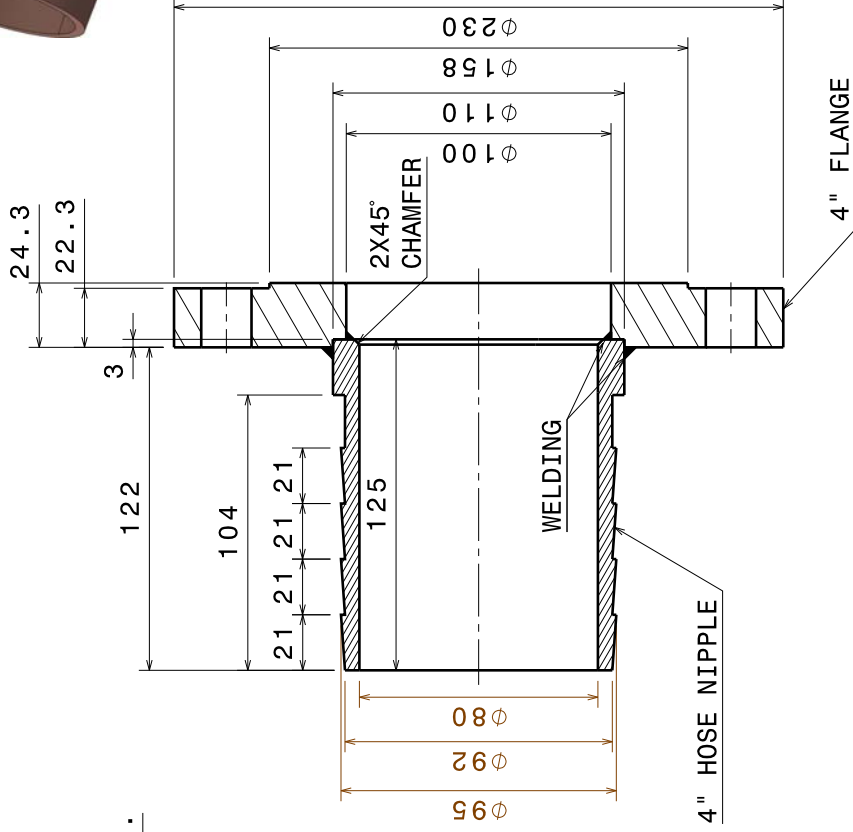
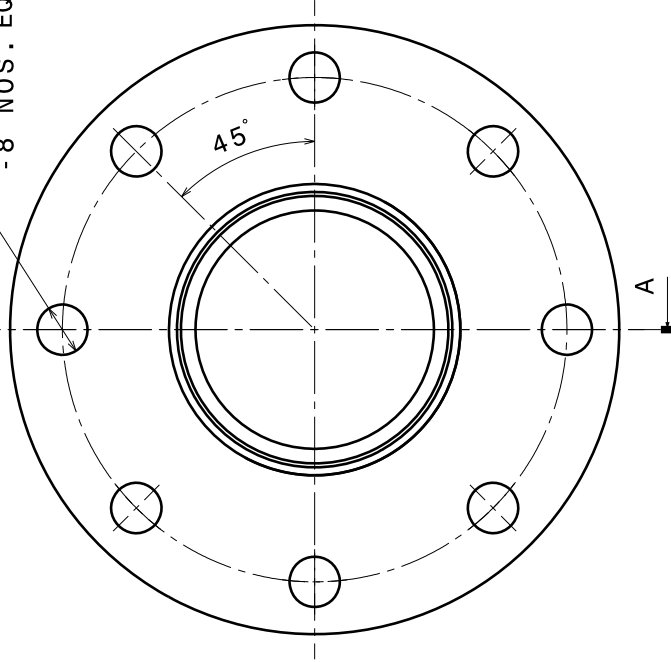
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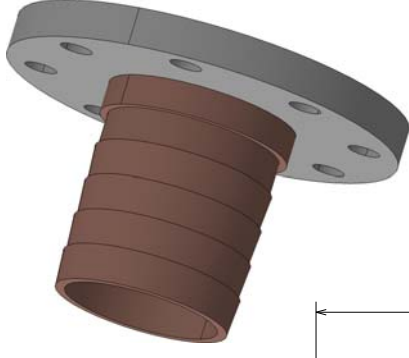
C

D

Ø19 HOLES THRU.
- 8 NOS. EQVT. 45°



Section view A-A



NOTE:- ALL DIMENSIONS ARE IN MM.
MATERIAL:-ALUMINIUM 6061-T6
QTY.:- 1 NOS.

ITER-India	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.	
DRW DOC ID	LINKED EV5 PT ID	RELEASED BY
PBS TITLE	P AJESH	APPROVED BY
REV DATE	01/09/15	CHECKED BY
SHEET SIZE	SCALE	CONTROLLED BY
PT STATUS	PT STATUS	DRAWN BY
THIRD ANGLE PROJECTION	NO. OF SHOTS	13

4_ INCH FLANGE WITH HOSE NIPPLE

12" GAS BARRIER ASSEMBLY

DRAWING NUMBER
11/ICH/12" GAS BARRIER/01

SHEET REVISION PR SHAWU

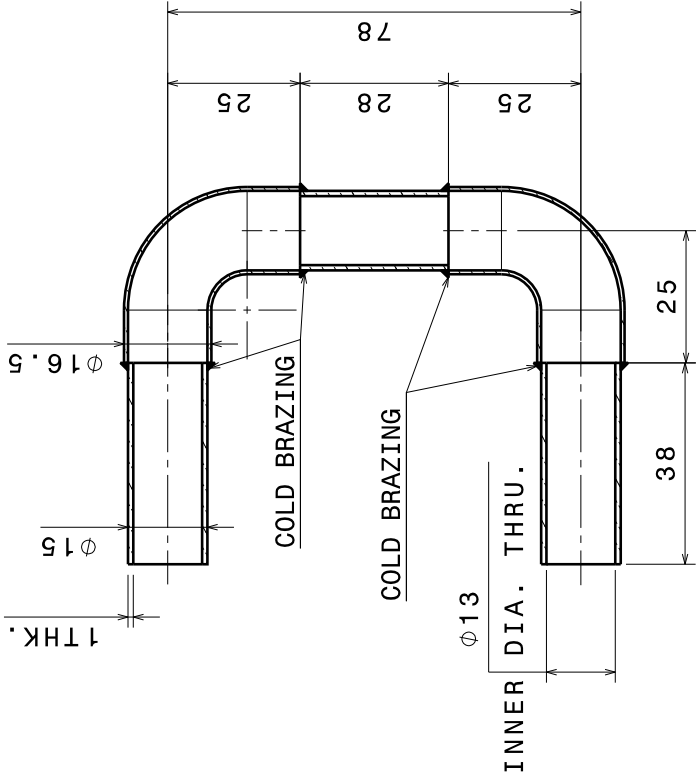
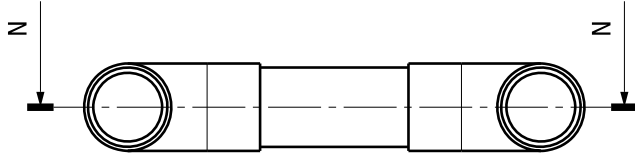
10

A

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Section view N-N

MATERIAL:-ETP COPPER
QTY.:- 4

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

DRW DOC ID	RELEASED BY	ITER INDIA (IPR) GANDHINAGAR		ITER-India	
LINKED EV5 PT ID	APPROVED BY	CONFIDENTIAL UNLESS AUTHORISED			
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 authorised to receive it.			
REV DATE	CHECKED BY	DRAWING TITLE			
13/07/15		COOLING PIPE			
SHEET SIZE	CONTROLLED BY	12" GAS BARRIER ASSEMBLY			
-	AJAY VALA	II/ICH/12"GAS BARRIER/01			
SCALE	DRAWN BY	DRAWING NUMBER			
NTS		11			
PT MATURED	PBS 3 LEVELS	SHEET REVISION PR SHAWU			
PT STATUS		11			
THIRD ANGLE PROJECTION		8			

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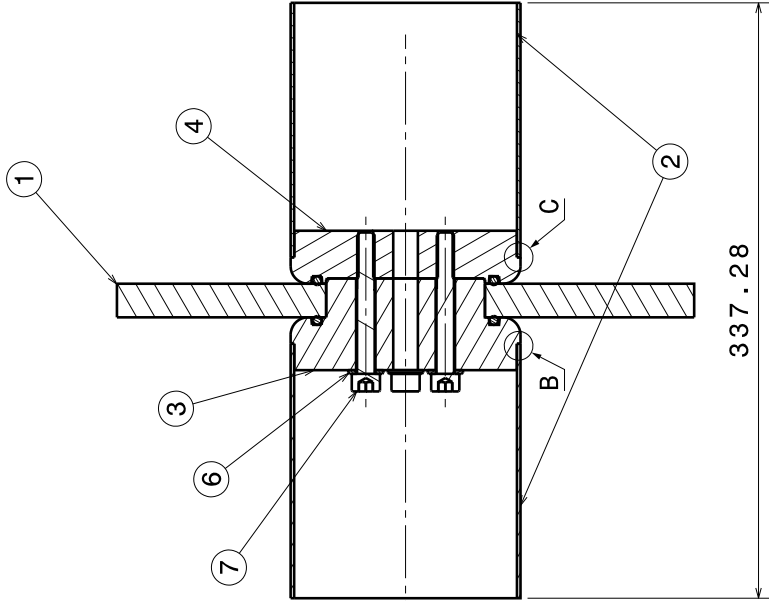
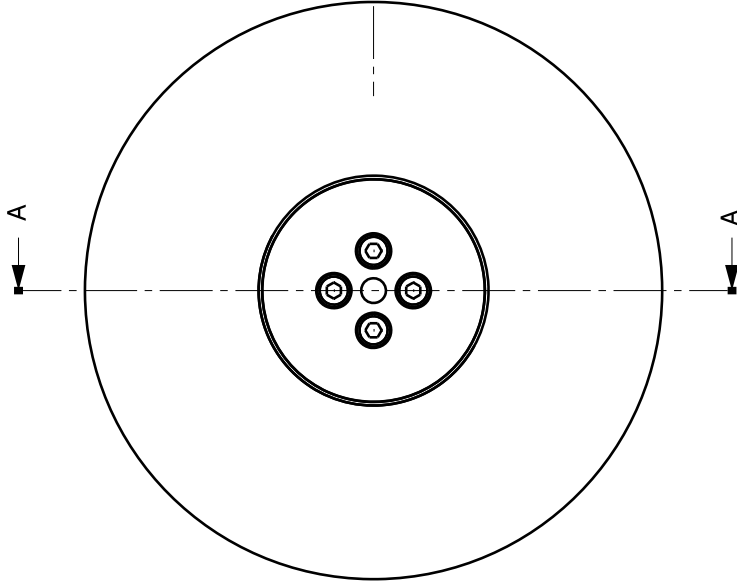
316

317

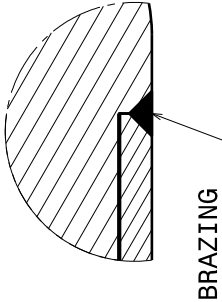
318

1 2 3 4 5 6 7 8

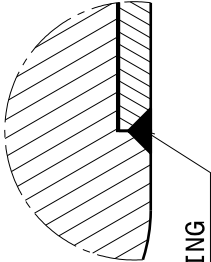
A B C D



Section view A-A



Detail B

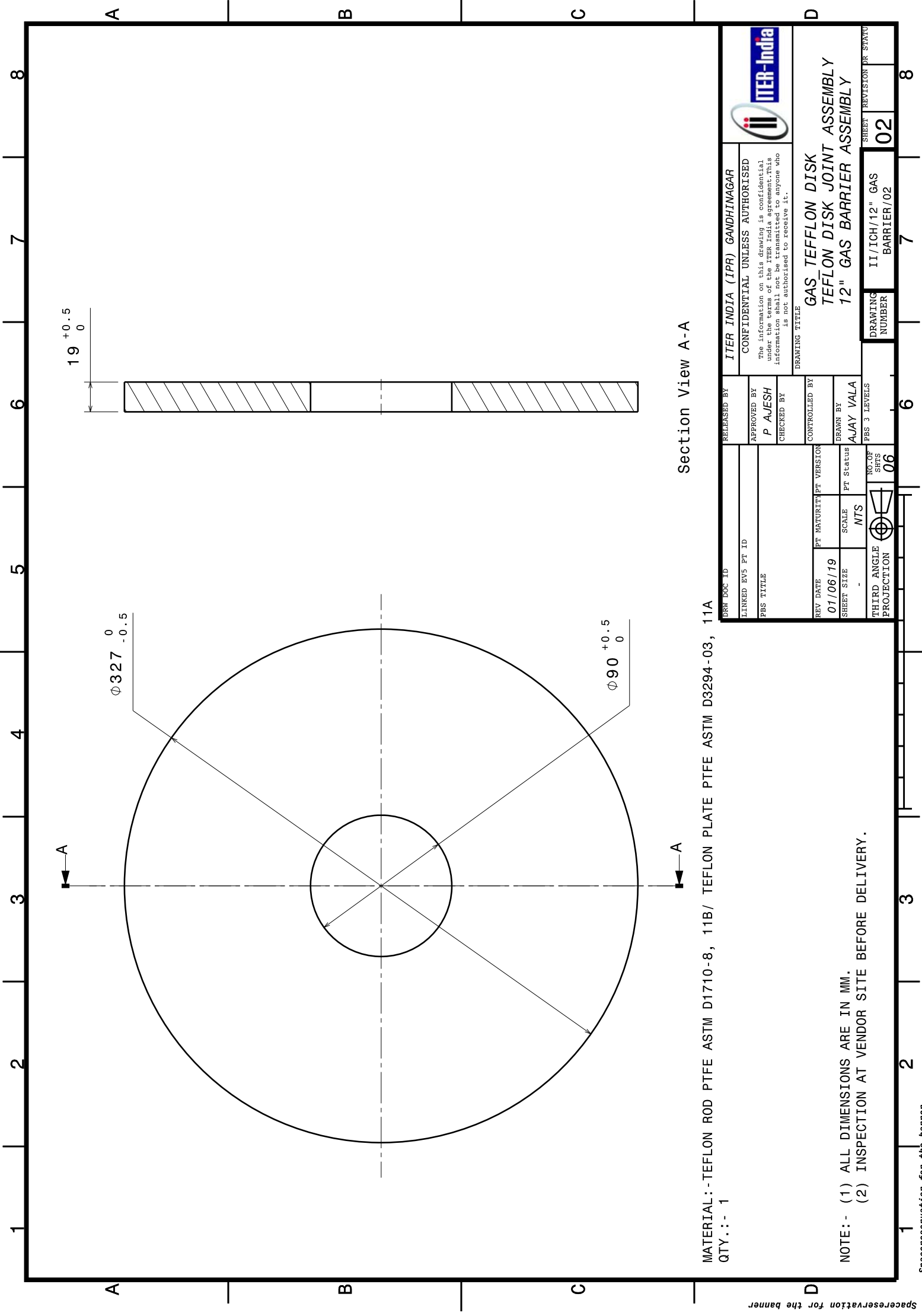


Detail C

7	M10X80 ALLEN HEX BOLT	SS 304	4
6	M10 PLAIN WASHER	SS 304	4
5	GAS_BUSH_0-RING	RUBBER SILICON	2
4	GAS_BUSH_2	BRASS (60:40)	1
3	GAS_BUSH_1	BRASS (60:40)	1
2	GAS_IC	ETP COPPER	2
1	GAS_TEFFLON DISK	TEFLON	1
PART NO	PART NAME	DESCRIPTION / MATERIAL	QTY

ITER-India		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 JOINT ASSEMBLY	
DRAWING NUMBER		12" GAS BARRIER ASSEMBLY	
DRAWING NUMBER		11/1CH/12" GAS BARRIER/02	
SHEET REVISION OR SHOWN		01	
REV DATE		PT MATURITE PT VERSION	
LINKED EV5 PT ID		01/06/19	
PDS TITLE		SCALE	
SHEET SIZE		PT Status	
NTS		NO-OF SHTS	
THIRD ANGLE PROJECTION		06	
RELEASED BY		APPROVED BY	
P AJESH		AJAY VALA	
CHECKED BY		CONTROLLED BY	
DRAWN BY		PDS 3 LEVELS	
NO-OF SHTS		06	

1 2 3 4 5 6 7 8




MATERIAL:-TEFLON ROD PTFE ASTM D1710-8, 11B/ TEFLON PLATE PTFE ASTM D3294-03, 11A
QTY.:- 1

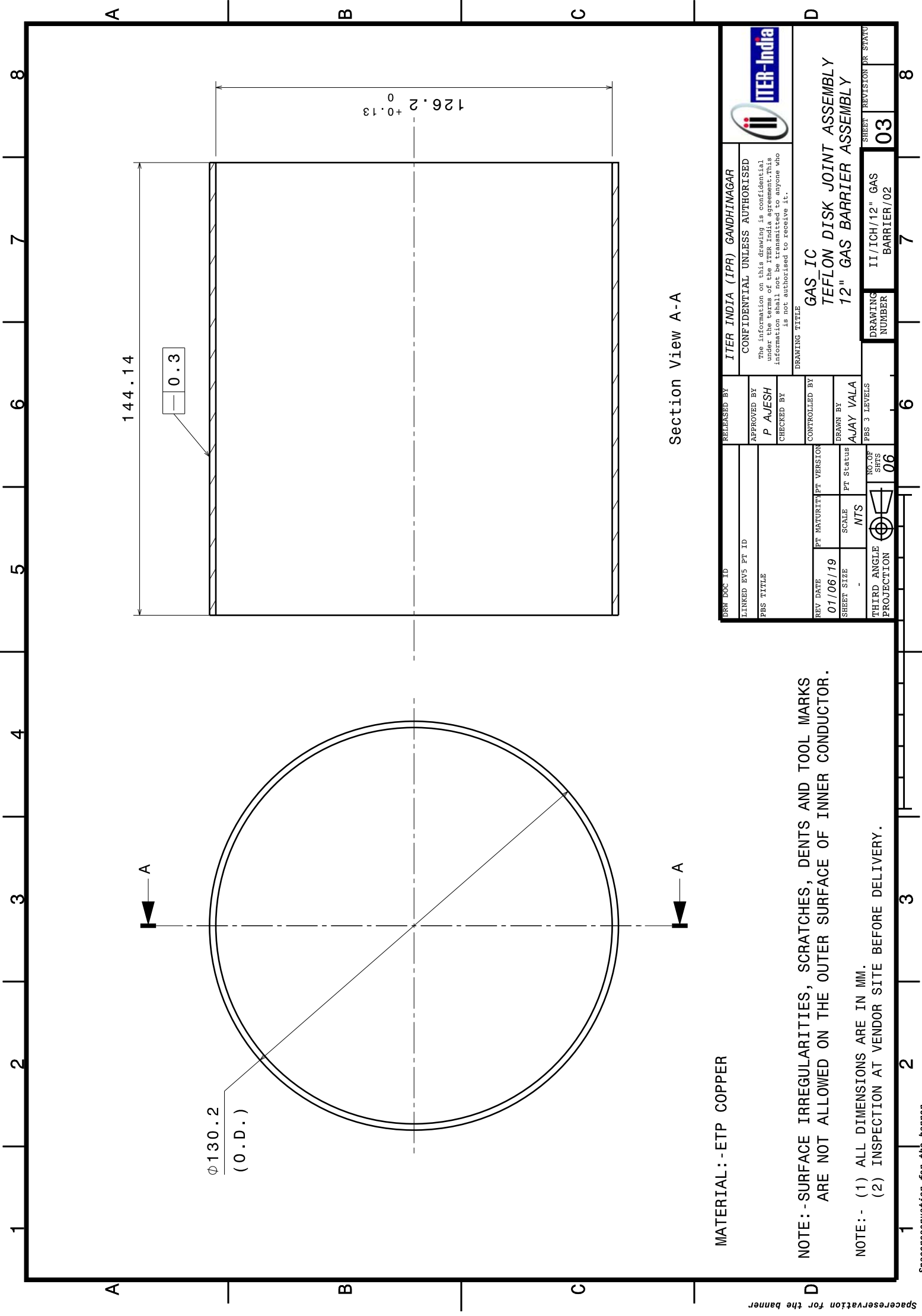
Section View A-A

Spacereservation for the banner

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

DRW DOC ID		RELEASED BY		ITER INDIA (IPR) GANDHINAGAR		 ITER-India	
LINKED EV5 PT ID		APPROVED BY		CONFIDENTIAL UNLESS AUTHORISED			
PDS 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 authorised to receive it.			
		CHECKED BY					
REV DATE		PT MATURITE		DRAWING TITLE			
01/06/19				TEFLON DISK JOINT ASSEMBLY			
SHEET SIZE		SCALE		12" GAS BARRIER ASSEMBLY			
-		NTS		DRAWING NUMBER			
THIRD ANGLE PROJECTION		NO. OF SHTS		II/1CH/12" GAS BARRIER/02			
				SHEET REVISION OR SHAWU			



Spacereservation for the banner

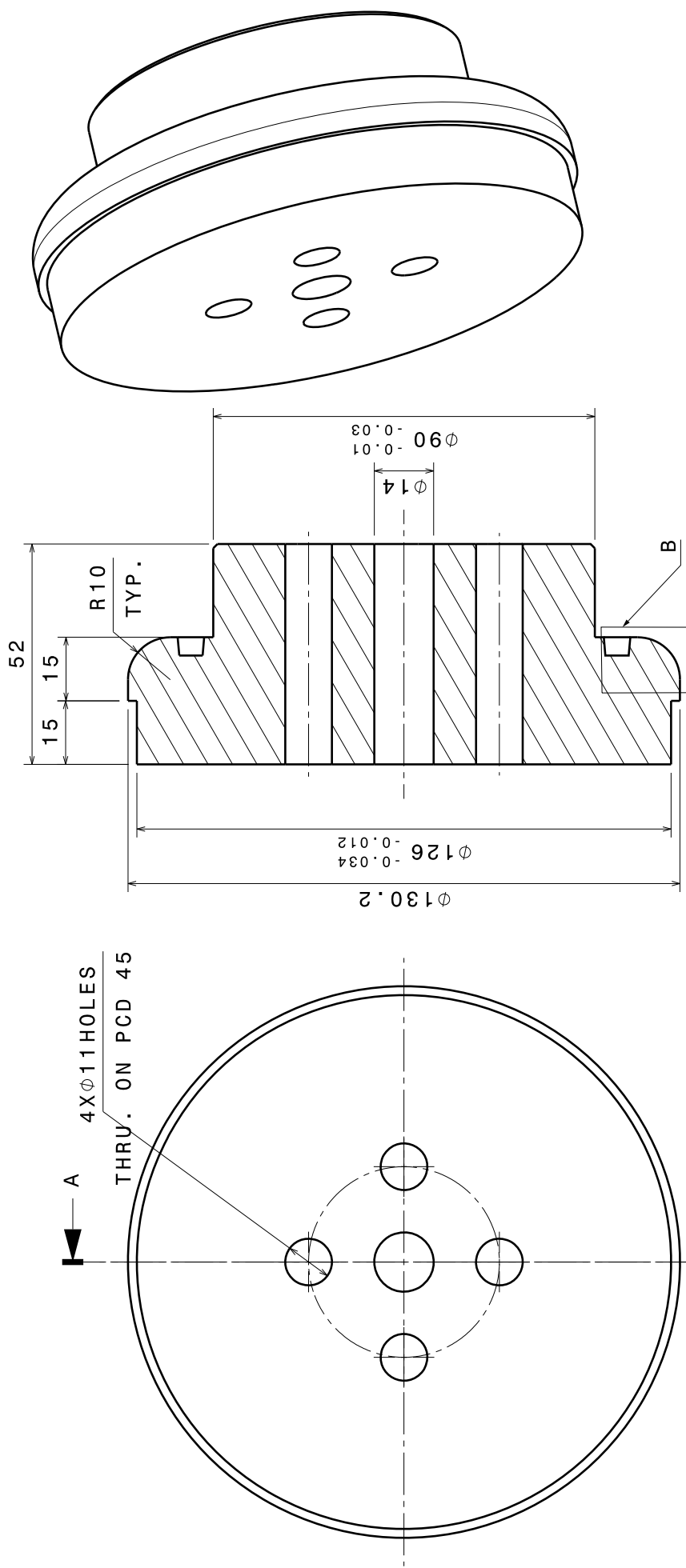


MATERIAL :-ETP COPPER

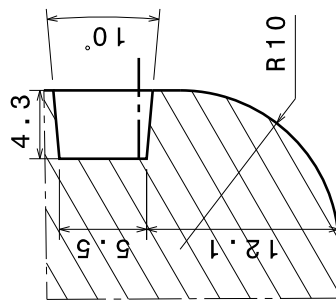
NOTE:-SURFACE IRREGULARITIES, SCRATCHES, DENTS AND TOOL MARKS ARE NOT ALLOWED ON THE OUTER SURFACE OF INNER CONDUCTOR.

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

DRW DOC ID		RELEASED BY		ITER INDIA (IPR) GANDHINAGAR		 ITER-India	
LINKED EV5 PT ID		APPROVED BY		CONFIDENTIAL UNLESS AUTHORISED			
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 authorised to receive it.			
		CHECKED BY		DRAWING TITLE			
REV DATE		CONTROLLED BY		GAS IC			
01/06/19				TEFLON DISK JOINT ASSEMBLY			
SHEET SIZE		DRAWN BY		12" GAS BARRIER ASSEMBLY			
-		AJAY VALA					
THIRD ANGLE PROJECTION		PBS 3 LEVELS		DRAWING NUMBER			
		NO OF SHES		II/ICH/12" GAS BARRIER/02			
		06		SHEET REVISION OR STATUS			
				03			



Section View A-A




Detail B

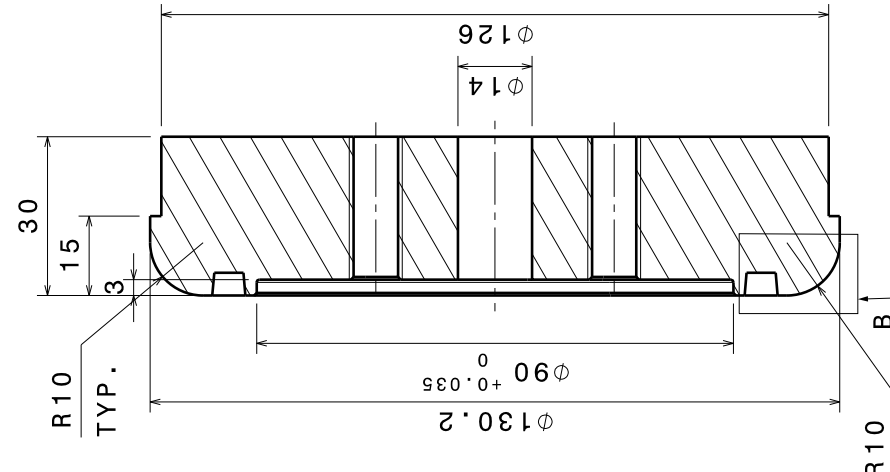
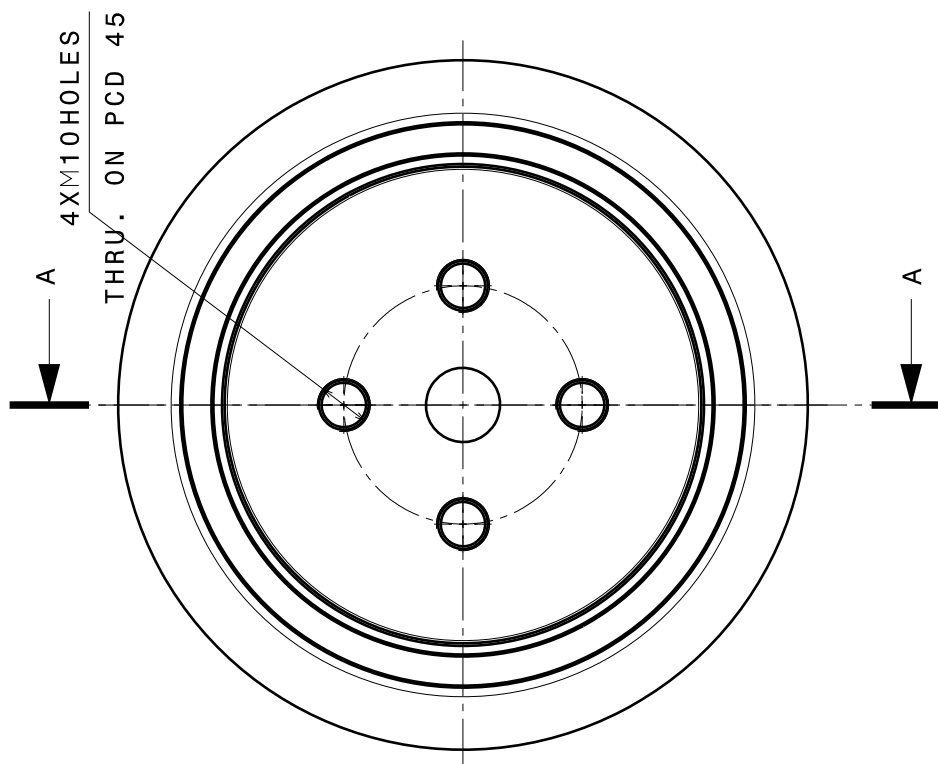
MATERIAL: - BRASS (60:40)

QTY: - 1

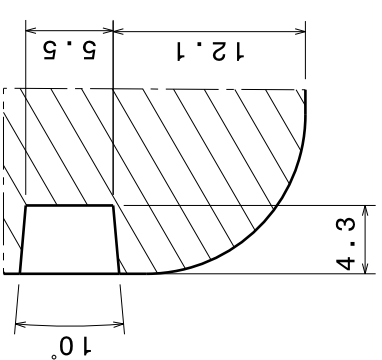
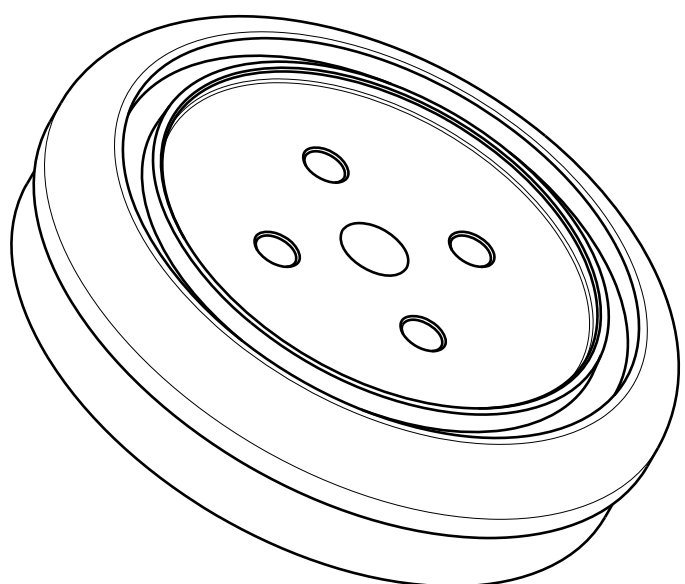
NOTE:- (1) ALL DIMENSIONS ARE IN MM.

(2) INSPECTION AT VENDOR SITE BEFORE DELIVERY.

DRW DOC ID	RELEASED BY		ITER INDIA (TPR) GANDHINAGAR	
LINKED EV5 PT ID	APPROVED BY		CONFIDENTIAL UNLESS AUTHORISED	
PBS TITLE	CHECKED BY		The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be disseminated to anyone who is not authorised to receive it.	
REV DATE		CONTROLLED BY		GAS_BUSH_1 TEFLON_DISK JOINT ASSEMBLY 12" GAS BARRIER ASSEMBLY
01/06/19	PT MATURITY			
SHEET SIZE	SCALE	DRAWN BY		
-	NTS	AJAY VALA		
THIRD ANGLE PROJECTION	NO. OF SHVS	PBS 3 LEVELS		
	06	DRAWING NUMBER		
		II/ICH/12" GAS BARRIER/02		
		SHEET		04
		REVISION DR. SHARU		



Section View A-A



Detail B

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

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

ITER-India		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		GAS BUSH 2	
DRAWING NUMBER		11/ICH/12" GAS BARRIER/02	
SHEET REVISION OR SHAWU		05	
REV DATE		PT MATURITE PT VERSION	
01/06/19		PT Status	
SHEET SIZE		SCALE	
-		NTS	
THIRD ANGLE PROJECTION		NO. OF SHTS	
06		06	

A

A

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B

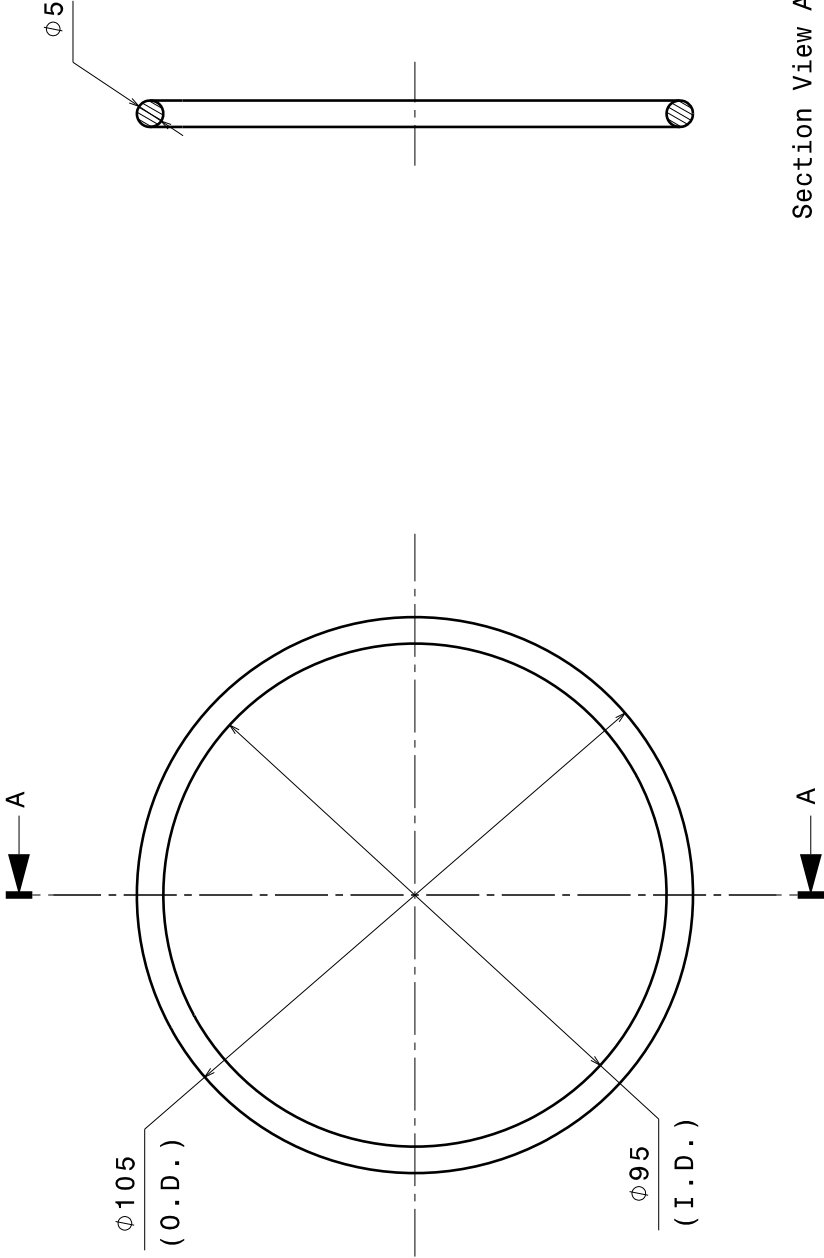
C

C

D

D

Spacereservation for the banner



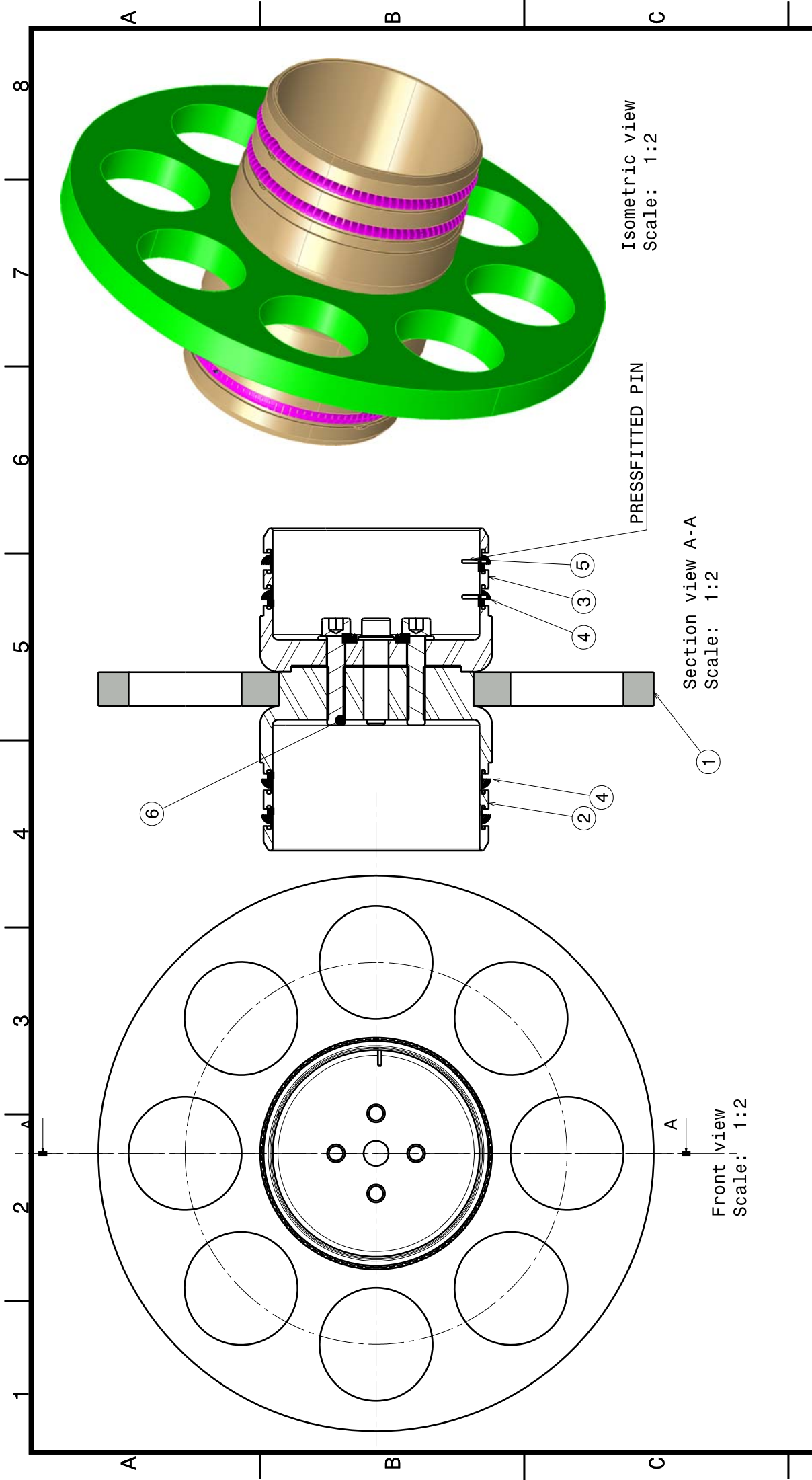
Section View A-A

MATERIAL:-RUBBER SILICON
QTY.:- 2

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

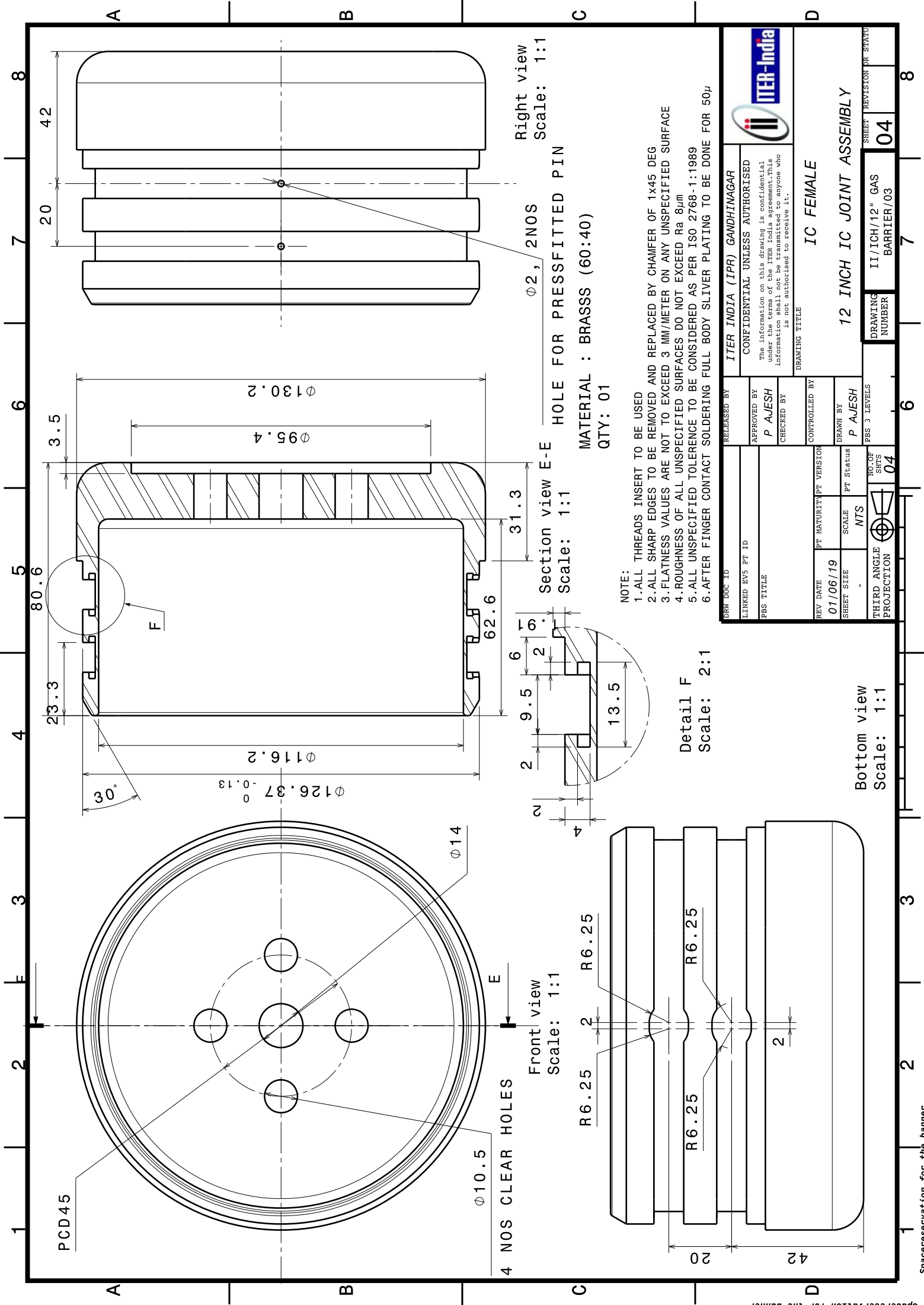
DRW DOC ID		RELEASED BY		ITER INDIA (IPR) GANDHINAGAR			
LINKED EV5 PT ID		APPROVED BY		CONFIDENTIAL UNLESS AUTHORISED			
PBS TITLE		P AJESH		The information on this drawing is confidential under the terms of the ITER India agreement. This information shall not be transmitted to anyone who is not authorised to receive it.			
		CHECKED BY		DRAWING TITLE			
REV DATE		PT MATURITE		GAS BUSH O-RING			
01/06/19		PT STATUS		TEFLON DISK JOINT ASSEMBLY			
SHEET SIZE		SCALE		12" GAS BARRIER ASSEMBLY			
-		NTS		DRAWING NUMBER			
THIRD ANGLE PROJECTION		NO. OF SHTS		ITER/ICH/12" GAS BARRIER/02			
		06		SHEET REVISION DR SHAWU			
				06			

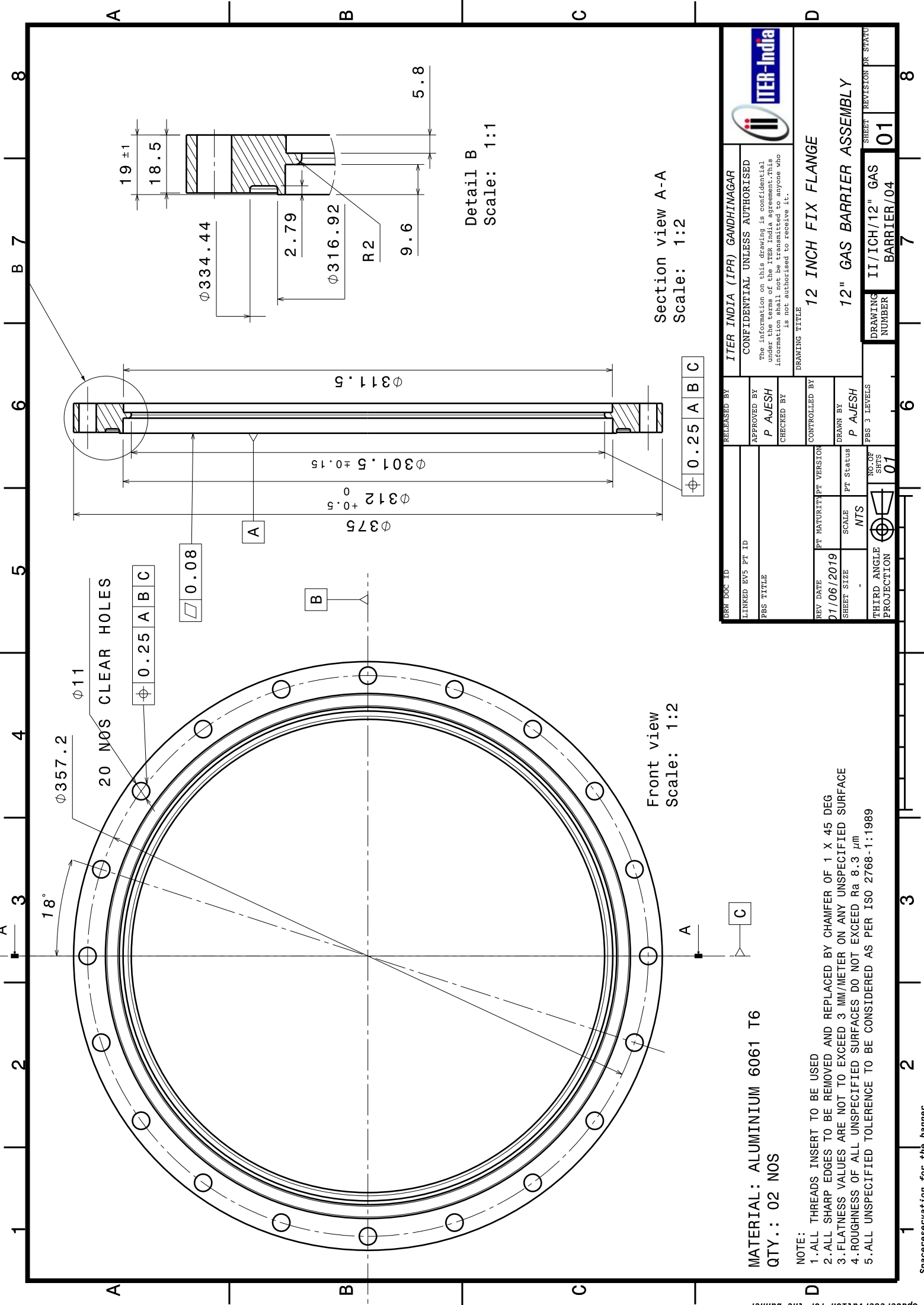
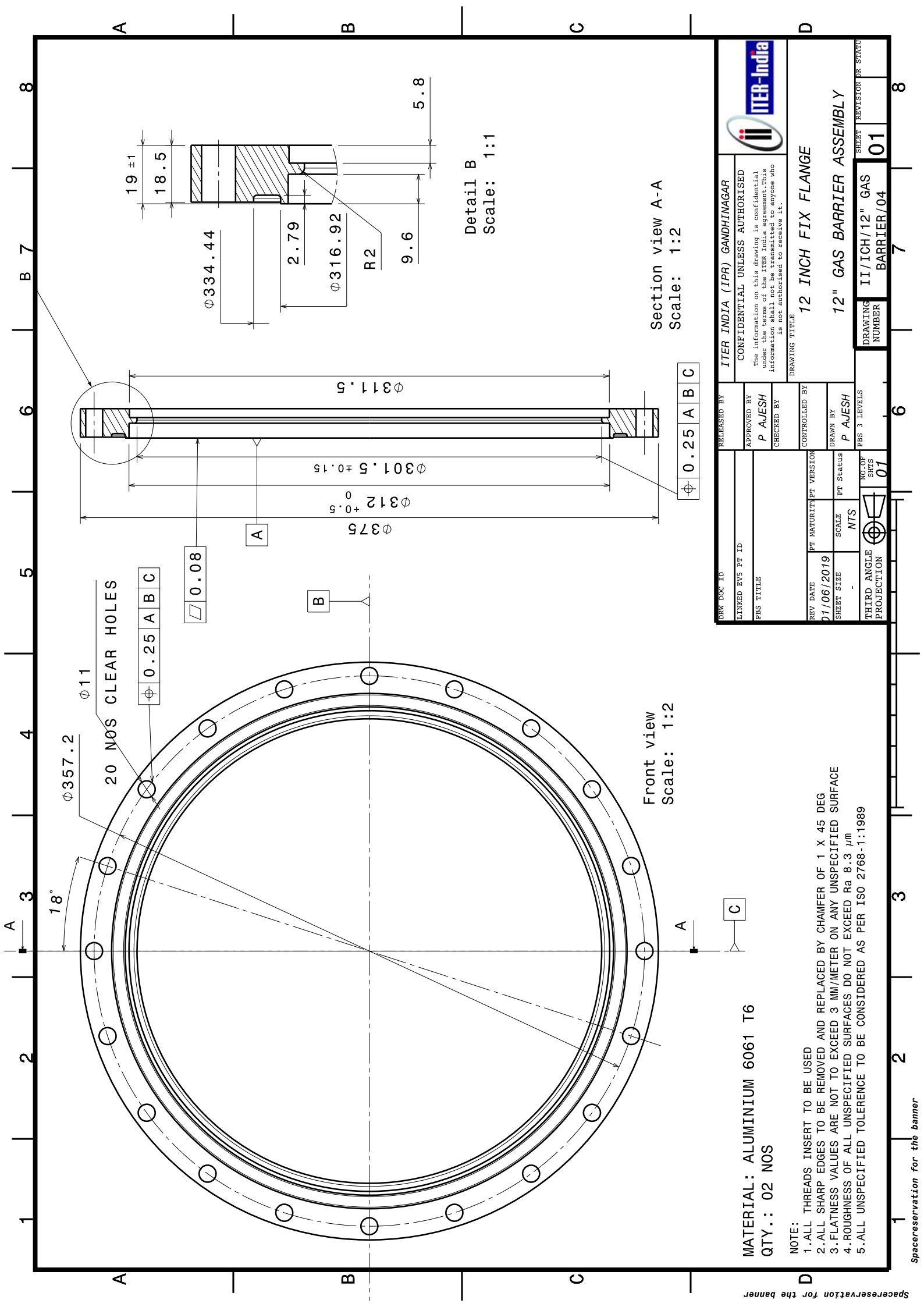
Spacereservation for the banner



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		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		12 INCH IC JOINT ASSEMBLY	
REV DATE		PT MATURITE PT VERSION	
01/06/19			
SHEET SIZE		SCALE	
-		NTS	
THIRD ANGLE PROJECTION		NO. OF SHOTS	
04			
RELEASED BY		ITER INDIA (IPR) GANDHINAGAR	
APPROVED BY		P AJESH	
CHECKED BY		P AJESH	
CONTROLLED BY		P AJESH	
DRAWN BY		P AJESH	
FBS 3 LEVELS		DRAWING NUMBER	
II/ICH/12" GAS BARRIER/03		SHEET REVISION PR SHAWU	
01		01	





MATERIAL: ALUMINIUM 6061 T6
QTY.: 02 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 μ m
5. ALL UNSPECIFIED TOLERANCE TO BE CONSIDERED AS PER ISO 2768-1:1989

ITER INDIA (IPR) GANDHINAGAR	
CONFIDENTIAL UNLESS AUTHORISED	
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DRAWING TITLE	
12 INCH FIX FLANGE	
12" GAS BARRIER ASSEMBLY	
DRAWING NUMBER	
II/ICH/12" GAS BARRIER/04	
SHEET REVISION OR SHAW	
01	

REV DATE	PT MATURITE	PT VERSION
01/06/2019		
SHEET SIZE	SCALE	PT STATUS
-	NTS	
THIRD ANGLE PROJECTION	NO. OF SHOTS	01
RELEASED BY	APPROVED BY	CHECKED BY
	P AJESH	
CONTROLLED BY	DRAWN BY	
	P AJESH	
FBS 3 LEVELS		

Section view A-A
Scale: 1:2

Front view
Scale: 1:2

Detail B
Scale: 1:1