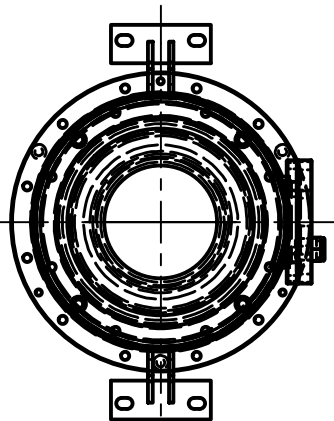
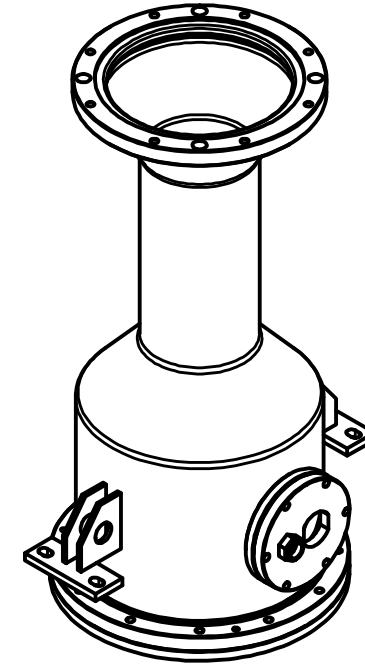
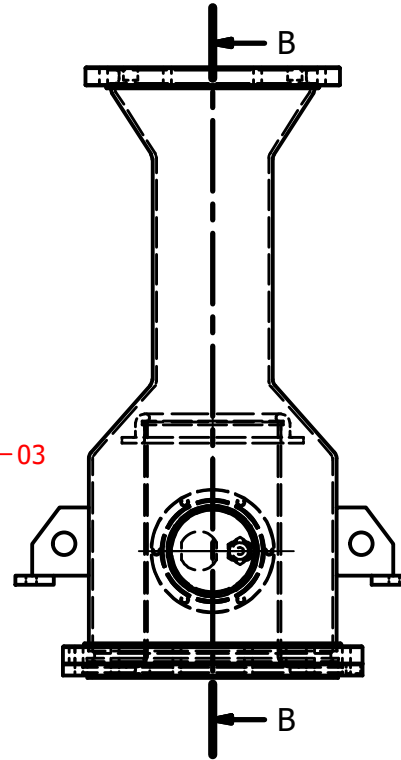
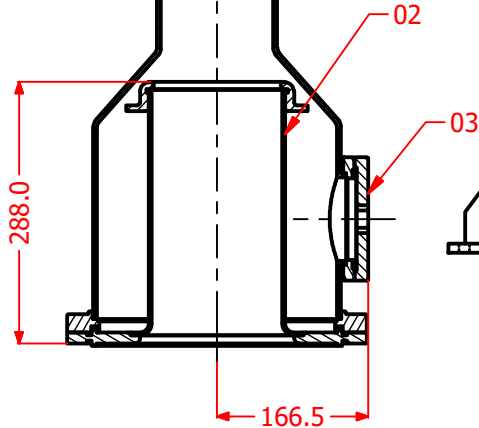
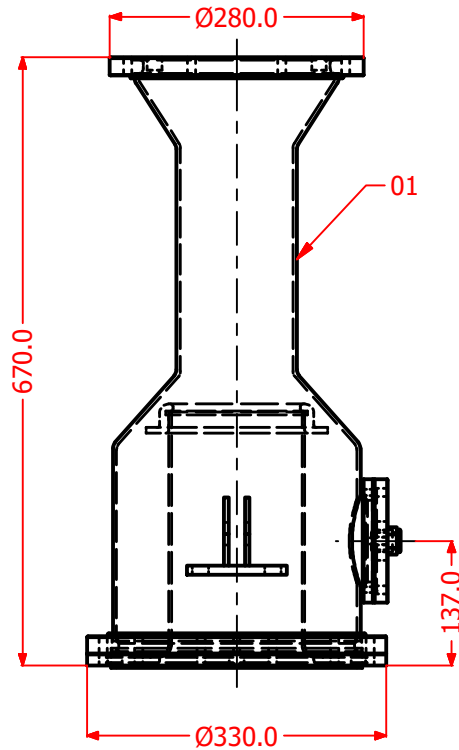


DRAWING NO.
BD2016DG050_3100

B-B (0.12 : 1)

(~3.2)



03	CT BLANK ASSY	BD2016DG050_3130	S.S	1.4	01
02	CT CORE ASSY	BD2016DG050_3120	S.S	9.53	01
01	CT ENCLOSURE	BD2016DG050_3110	S.S	24.12	01
REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	UNIT WT.
					QTY.

ADDITIONAL INFORMATION

STATUS OF DRAWING

DISTRIBUTION OF PRINTS

R&D SWE QCX

1 1 1

REV. DATE

CHECKED

APPROVED

TYPE OF PRODUCT OR NAME OF CUSTOMER / PROJECT

36kV BUS-SECTIONALIZER FOR GIS



BHARAT HEAVY ELECTRICALS LTD.
BHOPAL

DRN: SNK
CKD: MMR
APPD: NB

SIGN
DATE
12-Oct-16
25-Jul-17

NO. OF
VAR

DEPT: GSG
UNTO. DIMS. GR.
SCALE: 1 : 1
WEIGHT (KG.): 35.1

REF. TO. ASSY. DRG.
ITEM NO.

BD2016DG050_3000

BD2016DG050_3100

TITLE
CT ENCLOSURE ASSY

SHEET NO.
NO. OF SHEETS

REV. DATE
CHECKED
APPROVED

REV. DATE
CHECKED
APPROVED

REV. DATE
CHECKED
APPROVED

REV. DATE
CHECKED
APPROVED

REV. DATE
CHECKED
APPROVED

ZONE

ZONE

ZONE

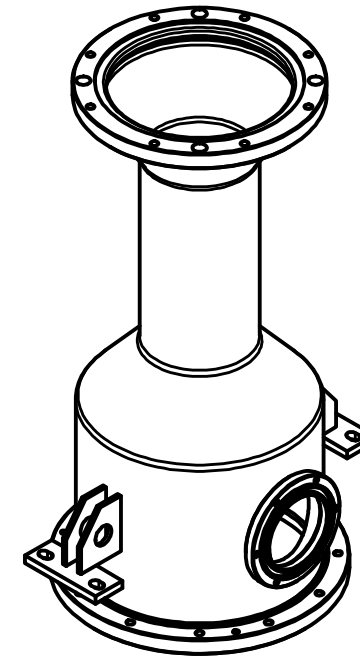
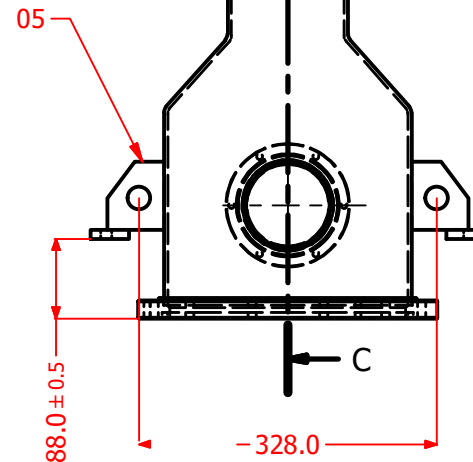
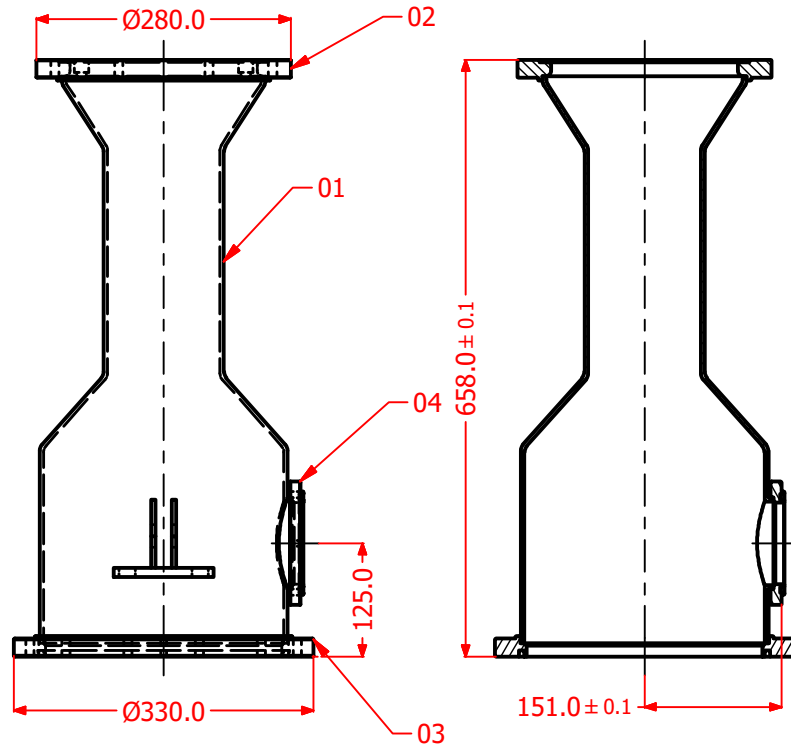
ZONE

ZONE

DRAWING NO.
BD2016DG050_3112

C-C (0.12 : 1)

(~3.2)

**NOTES:**

1. THE DIMENSIONS GIVEN IN THIS DRG. INCLUDING DIMENSIONS OF DETAILED COMPONENT ARE TO BE MAINTAINED BY MACHINING IN THIS ASSEMBLY. DETAILED COMPONENT DRAWINGS ARE SHOWING FINAL DIMENSIONS AND NECESSARY MACHINING ALLOWANCES ARE TO BE KEPT BY THE SUPPLIER FOR MACHINING/WELDING.

2. PARALLELISM AND PERPENDICULARITY OF ITEM 02,03,04 & 05 FLANGES W.R.T PIPE SHOULD BE MAINTAINED THROUGH WELDING/FIXTURE/MACHINING BY ± 0.05 DEGREES.

3. ITEMS 02, 03, 04 AND 05 ARE TIG WELDED FULLY FROM INSIDE AND STICH WELDED FROM OUTSIDE TO PIPE-3.

4. ALL INSIDE WELDS SHOULD BE GROUND SMOOTH.

5. ALL WELDS TO BE CHECKED FOR 100% DP AND CERTIFIED WITH PUNCH MARK ON ASSEMBLY.

6. PIPE TO BE SAND/GLASS BEAD BLASTED FROM INSIDE AS WELL AS OUT SIDE TO BE DESCALE INSIDE SURFACE TO BE ELECTRO POLISHED.

7. POWDER COAT ALL EXTERNAL SURFACES (SIMENS GRAY) AFTER THROUGH CLEANING AND DEGREASING ASSEMBLY IN SOLVENT. PROTECT SEALING SURFACES USING SUITABLE MASK (AVOID USING GREASE, COTTON WASTE).

8. ALL FLANGE FACES SHOULD BE PROTECTED USING SUITABLE MASK BEFORE PACKING FOR DESPATCH.

9. ALL JOINTS TO BE TIG / FUSION WELDED TO HAVE MINIMUM DISTORTION.
10. LEAK TEST SHOULD BE DONE USING 3 SUITABLE DUMMY FLANGES.
11. PLEASE REFER SPECIFICATIONS PSGSG2012-13-028 FOR FURTHER CLARIFICATIONS.

05	BRACKET ASSY	BD2016DG050_3113	S.S	0.634	02
04	CT CC FLANGE	BD2016DG050_3112	S.S	0.73	01
03	FLANGE-1	BD2016DG050_1112	S.S	4.62	01
02	FLANGE-3	BD2016DG050_2113	S.S	4.1	01
01	PIPE-3	BD2016DG050_3111	S.S	13.4	01

REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO.	MATL. CODE	A	UNIT	UNIT WT.
					VAR.	MATL. SPCN.			QTY.

ADDITIONAL INFORMATION	TYPE OF PRODUCT OR NAME OF CUSTOMER / PROJECT
STATUS OF DRAWING	36KV BUS-SECTIONALIZER FOR GIS
DISTRIBUTION OF PRINTS	
R&D	1
SWE	1
QCK	1

ADDITIONAL INFORMATION

STATUS OF DRAWING

DISTRIBUTION OF PRINTS

R&D

SWE

QCK

1

1

1

TYPE OF PRODUCT OR NAME OF CUSTOMER / PROJECT

36KV BUS-SECTIONALIZER FOR GIS

NAME OF CUSTOMER / PROJECT

DRN.

SNK

CKD.

MMR

APPD.

NB

DEPT.

GSG

CODE

35

TITLE

CT-ENCLOSURE

UNTL. DIMS. GR.

B

SCALE

1 : 1

WEIGHT (KG.)

24.12

REF. TO. ASSY. DRG.

BD2016DG050_3100

ITEM NO.

BD2016DG050_3110

SHEET NO.

NO. OF SHEETS

SIGN

SNK

DATE

12-Oct-16

NO. OF VAR

02

DATE

25-Jul-17

NO. OF VAR

01

DATE

25-Jul-17

NO. OF VAR

01

SIGN

MMR

DATE

25-Jul-17

NO. OF VAR

01

DATE

25-Jul-17

NO. OF VAR

01

DATE

25-Jul-17

NO. OF VAR

01

SIGN

NB

DATE

25-Jul-17

NO. OF VAR

01

DATE

25-Jul-17

NO. OF VAR

01

DATE

25-Jul-17

NO. OF VAR

01

SIGN

NB

DATE

25-Jul-17

NO. OF VAR

01

DATE

25-Jul-17

NO. OF VAR

01

DATE

25-Jul-17

NO. OF VAR

01

SIGN

NB

DATE

25-Jul-17

NO. OF VAR

01

DATE

25-Jul-17

NO. OF VAR

01

DATE

25-Jul-17

NO. OF VAR

01

SIGN

NB

DATE

25-Jul-17

NO. OF VAR

01

DATE

25-Jul-17

NO. OF VAR

01

DATE

25-Jul-17

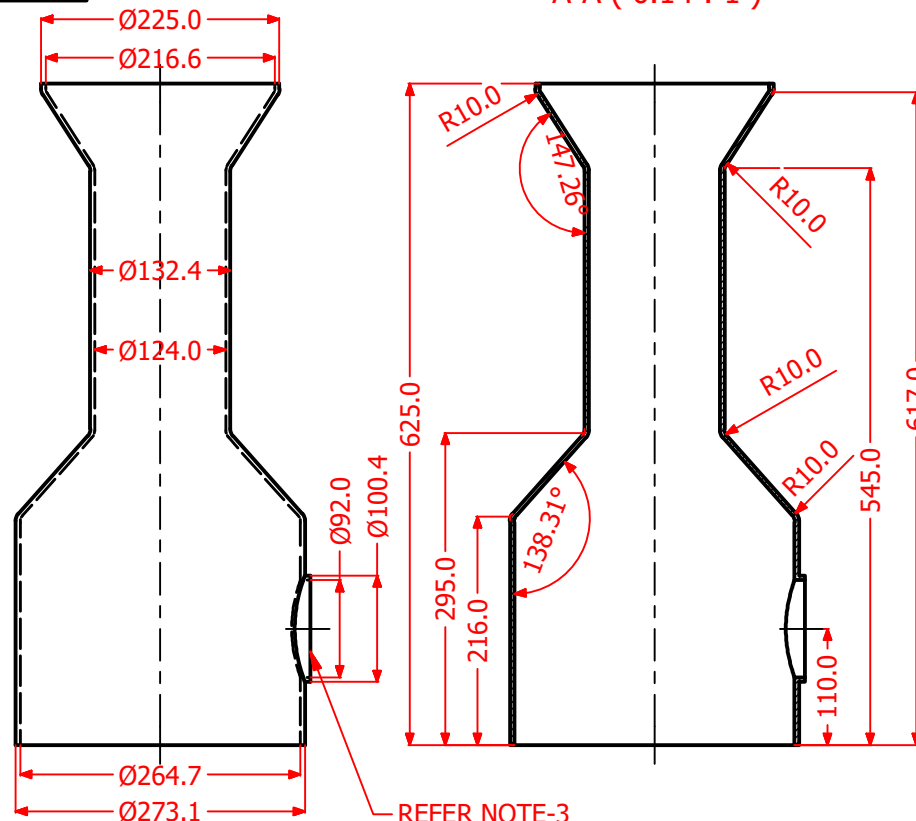
NO. OF VAR

01

DRAWING NO.
BD2016DG050_3111

A-A (0.14 : 1)

(~3.2)

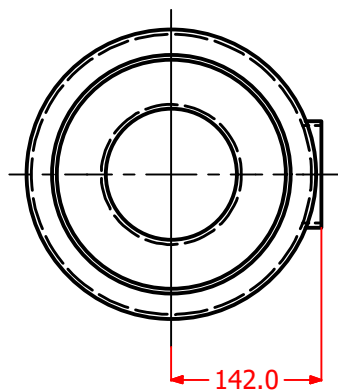
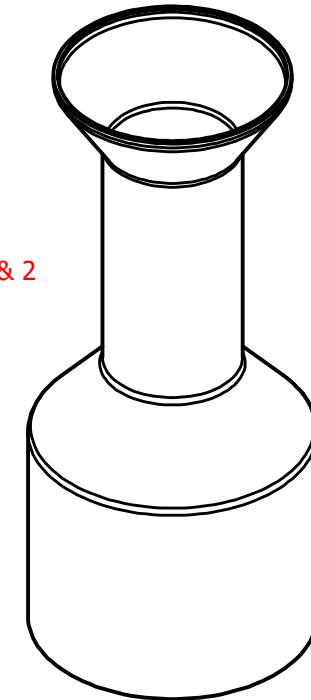


REFER NOTE-3

NOTE :

1. ALL JOINTS SHOULD BE TIG WELDED FROM INSIDE AND OUTSIDE AND SHOULD BE MACHINED TO SMOOTH GROUND.
2. SUITABLE ERW PIPES/SEAMLESS PIPES ARE USED FOR JOINING TO DIA 273.1 SEAMLESS PIPE AS SHOWN.
3. ID 92.0 PULL OUT HAS TO BE DRAWN FROM DIA 273.1 PIPE AS SHOWN.

REFER NOTE-1 & 2

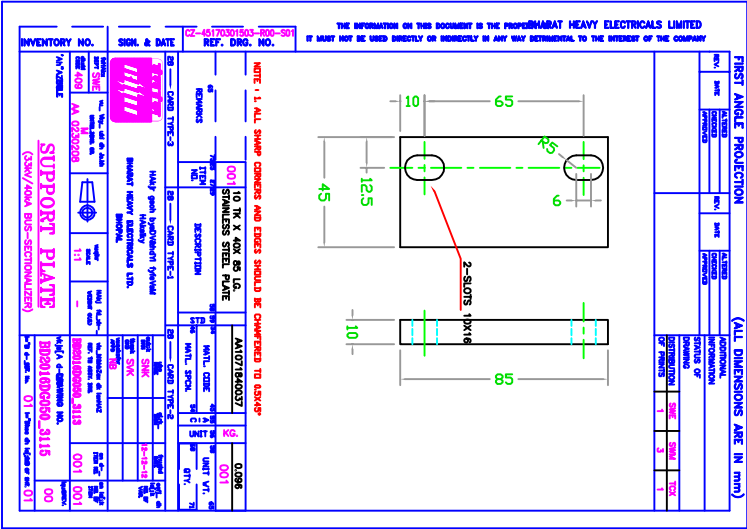
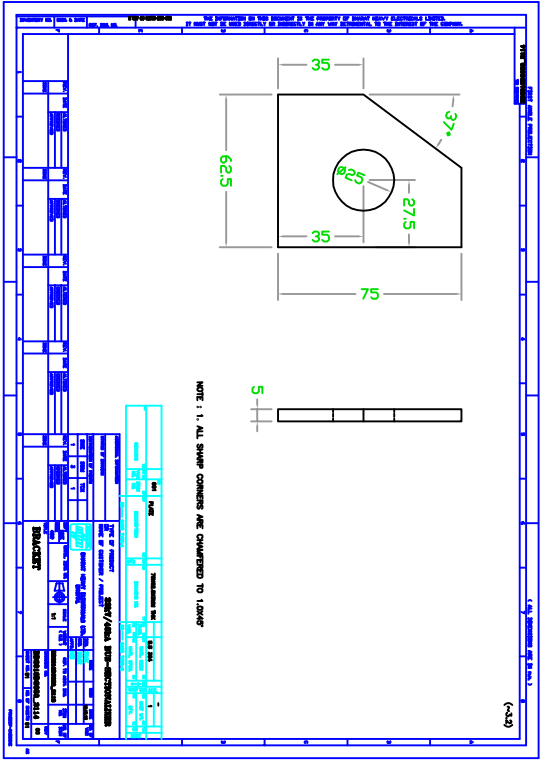
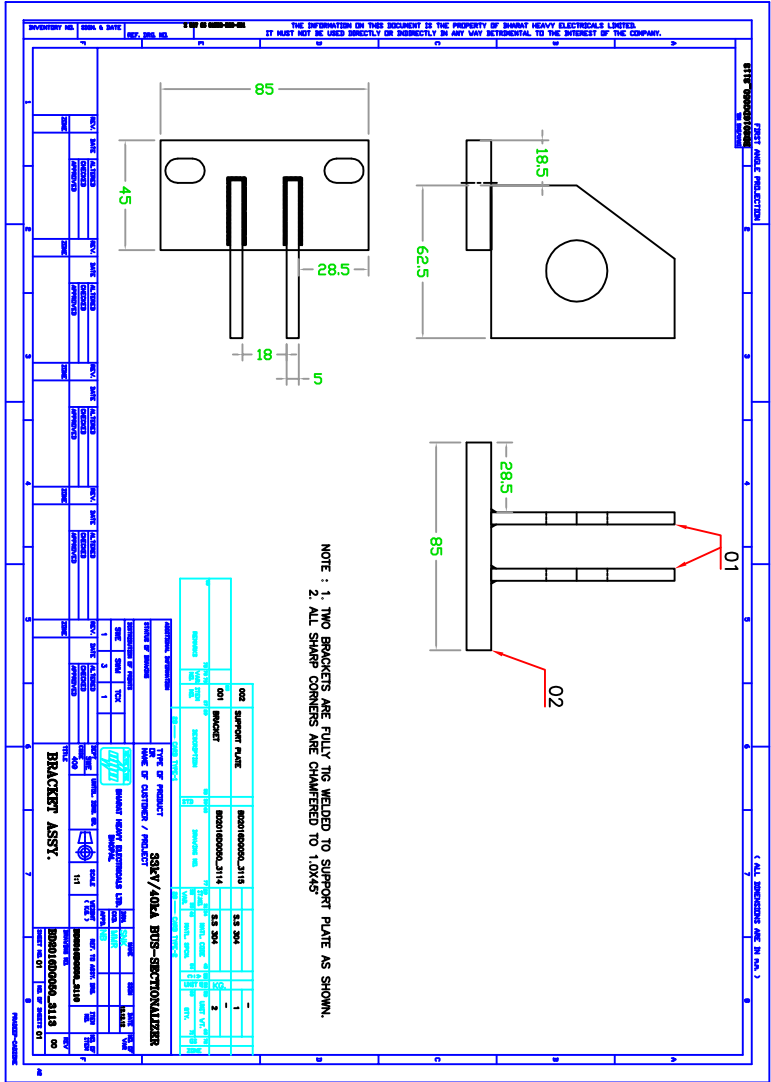


		01		TUBE				DIA 273.1 X 625MM		LEN		Stainless Steel, Austenitic		13.400 kg						
REMARKS		VAR. NO.	ITEM NO.	DESCRIPTION		STD		DRAWING NO.		IT. NO.	MATL. CODE		A	UNIT WT.		CS	ZONE			
										VAR.	MATL. SPCN.		QTY.							
ADDITIONAL INFORMATION				TYPE OF PRODUCT OR NAME OF CUSTOMER / PROJECT																
STATUS OF DRAWING				36KV BUS-SECTIONALIZER FOR GIS																
DISTRIBUTION OF PRINTS				BHARAT HEAVY ELECTRICALS LTD. BHOPAL																
R&D	SWE	QCK		DRN.										SNK		SIGN		DATE		NO. OF VAR
1	1	1		CKD.										MMR				25-Jul-17		
				APPD										NB						
REV.	DATE	ALTERED		DEPT	CSG	UNTOL. DIMS. GR.			SCALE	WEIGHT (KG.)		REF. TO. ASSY. DRG.		ITEM NO.		NO. OF ITEM				
		CHECKED		CODE	35			1 : 1	13.400 kg		BD2016DG050_3111									
		APPROVED																		
ZONE				TITLE										DRAWING NO.		REV				
				Pipe-3										BD2016DG050_3111						
														SHEET NO.		NO. OF SHEETS				

(~3.2)



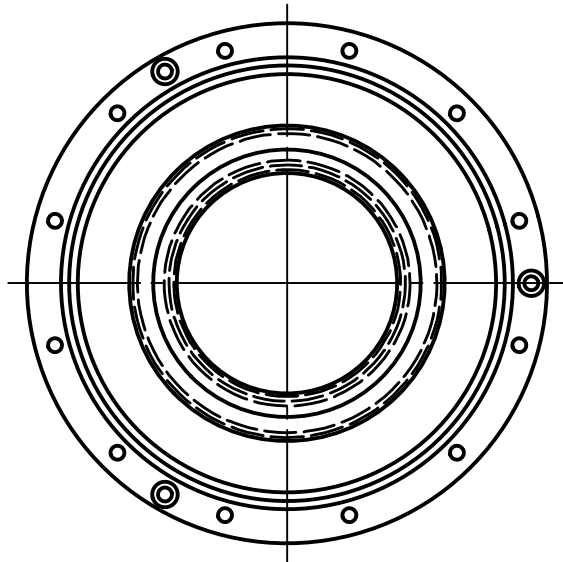
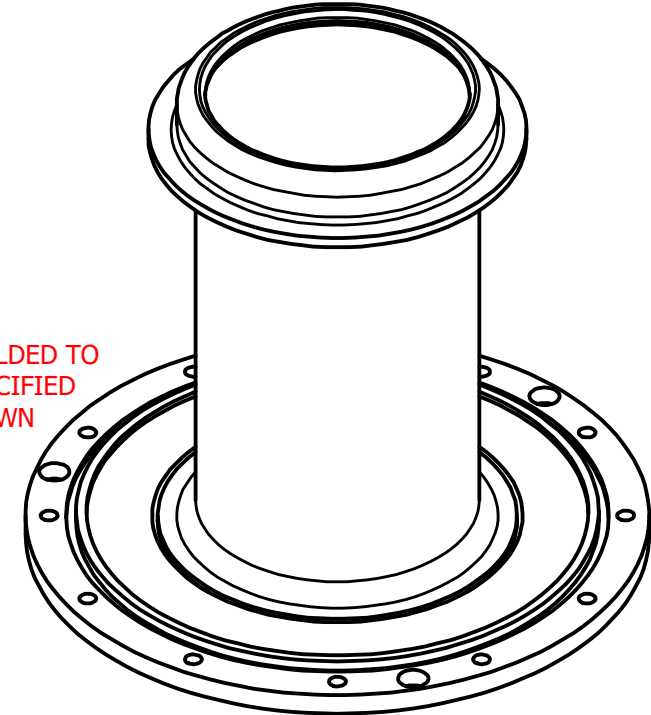
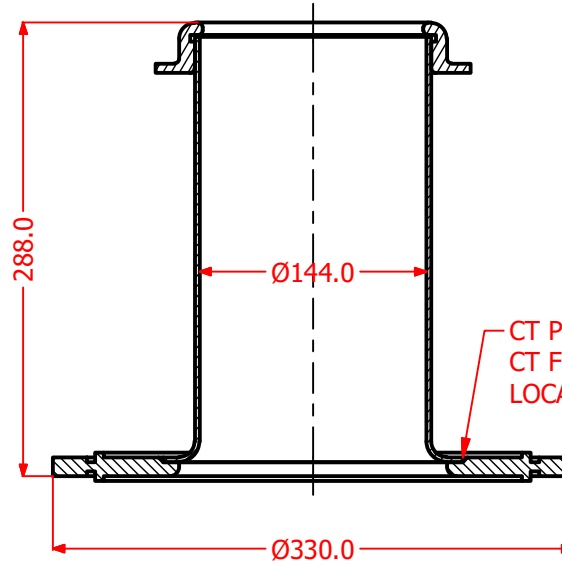
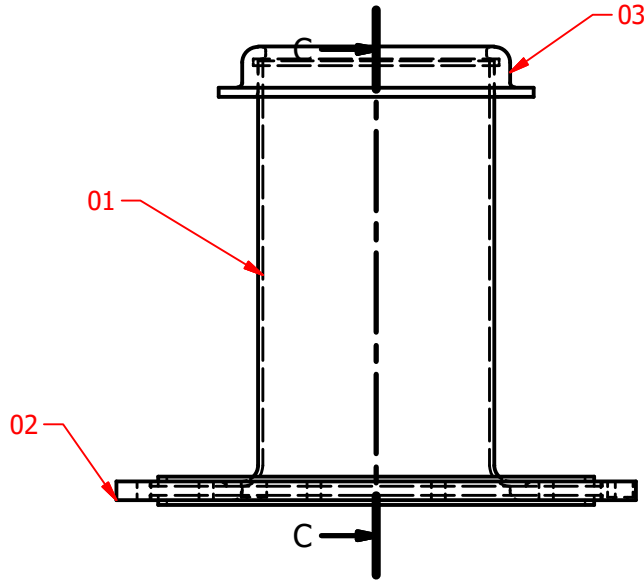
		01	BLANK			DIA 136 X15MM THK			Stainless Steel, Austenitic		0.730 kg						
REMARKS		VAR. NO.	ITEM NO.	DESCRIPTION		STD.	DRAWING NO.	IT. NO.	MATL. CODE		C. P. A.	UNIT	QTY.	UNIT WT.	GS	ZONE	
ADDITIONAL INFORMATION				TYPE OF PRODUCT OR NAME OF CUSTOMER / PROJECT													
STATUS OF DRAWING				36KV BUS-SECTIONALIZER FOR GIS													
DISTRIBUTION OF PRINTS				BHARAT HEAVY ELECTRICALS LTD. BHOPAL													
R&D		SWE		QXC				DRN.	SNK		SIGN		DATE		NO. OF VAR.		
1		1		1				CKD.	MMR				25-Jul-17				
								APPD	NB								
REV.	DATE	ALTERED		DEPT		UNTOOL. DIMS. GR.		SCALE	WEIGHT (KG.)		REF. TO. ASSY. DRG.		ITEM NO.		NO. OF ITEM		
				GSG				1 : 1	0.730 kg		BD2016DG050_3110						
		CHECKED		CODE		35											
		APPROVED															
ZONE				TITLE								DRAWING NO.		REV			
				CT_CC_Flange								BD2016DG050_3112					
												SHEET NO.		NO. OF SHEETS			



DRAWING NO.
BD2016DG050_3120

C-C (1 : 4.8)

(~3.2)



03	CT SHIELD	BD2016DG050_3123	AL	0.58	01		
02	CT FLANGE	BD2016DG050_3122	S.S 304	5.74	01		
01	CT PIPE	BD2016DG050_3121	S.S 304	3.21	01		
REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO.	MATL. CODE	UNIT WT.
					VAR.	MATL. SPCN.	QTY.

ADDITIONAL INFORMATION			
STATUS OF DRAWING			
DISTRIBUTION OF PRINTS			
R&D	SWE	QCX	
1	1	1	

TYPE OF PRODUCT OR NAME OF CUSTOMER / PROJECT
36KV BUS-SECTIONALIZER FOR GIS

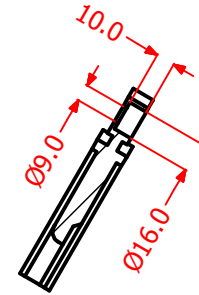
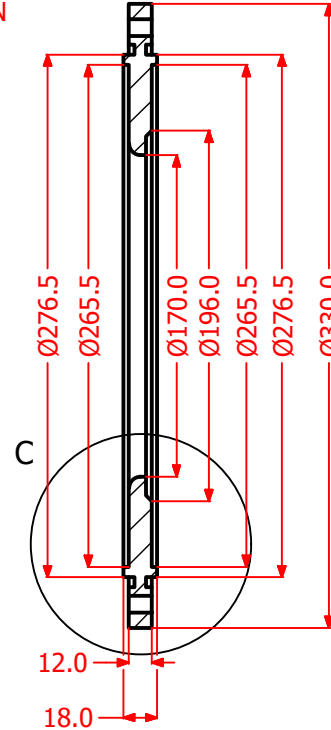
DRN. SNK		SIGN	DATE	NO. OF VAR
CKD. MMR			28-Jan-16	
APPD. NB			26-Jul-17	
DEPT. GSG	UNTL. DIMS. GR.	SCALE	WEIGHT (KG.)	REF. TO. ASSY. DRG.
35		1 : 1	9.53	BD2016DG050_3100
TITLE				ITEM NO.
CT CORE ASSEMBLY				NO. OF SHEETS
				REV

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED			CHECKED			CHECKED
		APPROVED			APPROVED			APPROVED			APPROVED
ZONE			ZONE			ZONE			ZONE		

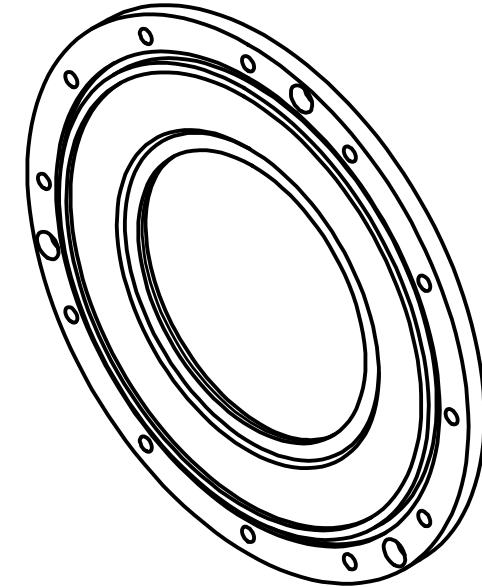
A-A (1 : 4)

(~3.2)

SEE SECTION-BB FOR COUNTER BORE DIRECTION



B-B (1 : 4)



3 NOS., DIA 16.0 CB HOLES @ 310 PCD

12 NOS., Ø9.0 CLEAR HOLES @ 305 PCD

NOTE : ALL SHARP CORNERS ARE CHAMFERED TO 0.8X45°

01	BLANK	DIA 330 X 18MM THK	Stainless Steel, Austenitic	5.739 kg
REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	DRAWING NO.

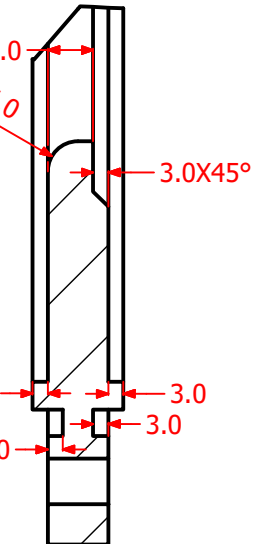
ADDITIONAL INFORMATION			
STATUS OF DRAWING			
DISTRIBUTION OF PRINTS			
R&D	SWE	QCX	
1	1	1	

TYPE OF PRODUCT OR NAME OF CUSTOMER / PROJECT
36kV BUS-SECTIONALIZER FOR GIS

DRN.	SNK	SIGN	DATE	NO. OF VAR
CKD.	MMR		18-May-12	
APPD	NB		26-Jul-17	

DEPT	UNTL	DIMS.	GR.	SCALE	WEIGHT (KG.)	REF. TO. ASSY. DRG.	ITEM NO.	NO. OF ITEM
GSG				1 : 1	5.739 kg	BD2016DG050_3120		
CODE	35							

TITLE				DRAWING NO.				REV
CT FLANGE				BD2016DG050_3122				
				SHEET NO.				NO. OF SHEETS



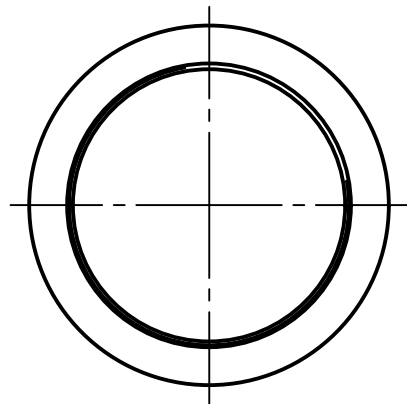
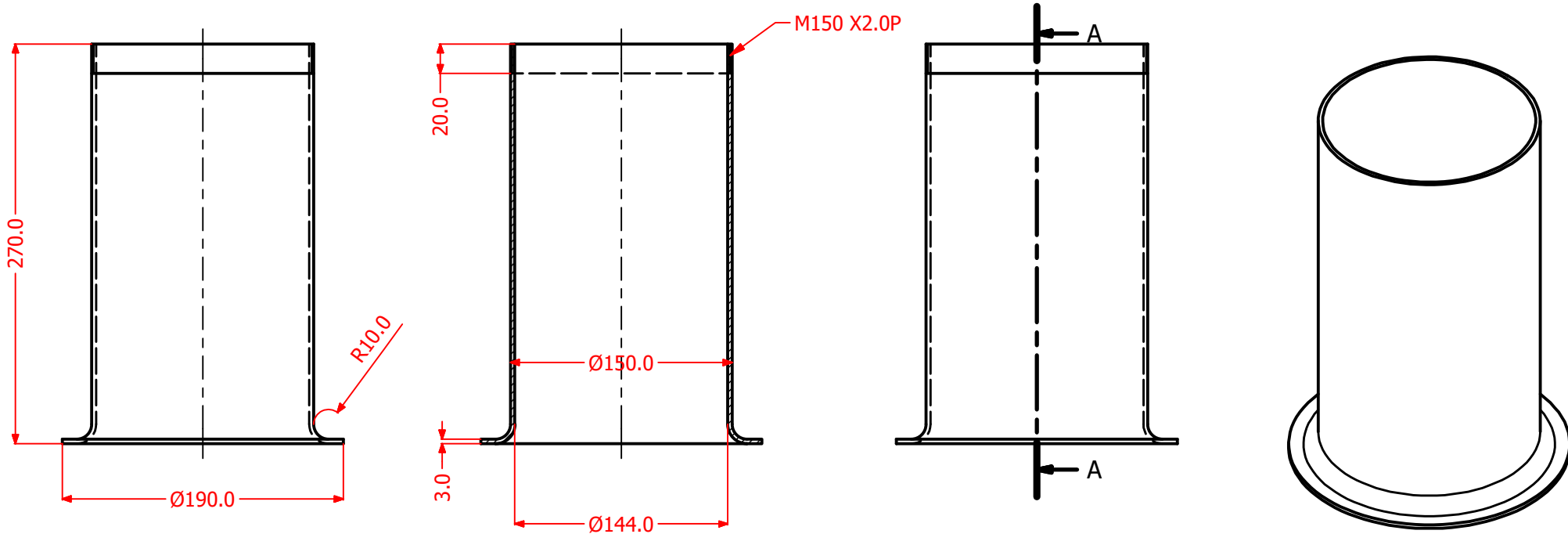
C (1 : 1.5)

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED			CHECKED			CHECKED
		APPROVED			APPROVED			APPROVED			APPROVED
ZONE			ZONE			ZONE			ZONE		

DRAWING NO.
BD2016DG050_3121

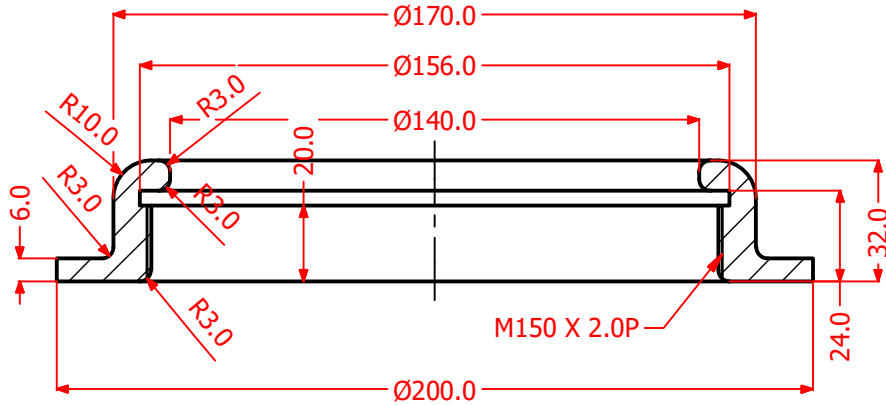
A-A (1 : 4)

(~3.2)

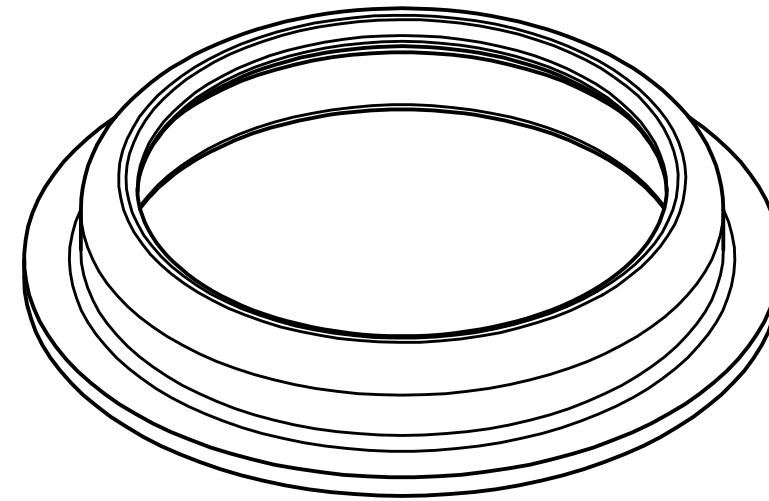


01		TUBE	DIA 190 X270MM LEM		Stainless Steel, Austenitic		3.208 kg	
REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO.	MATL. CODE	UNIT	UNIT WT.
					VAR.	MATL. SPCN.	QTY.	
ADDITIONAL INFORMATION			TYPE OF PRODUCT OR NAME OF CUSTOMER / PROJECT					
STATUS OF DRAWING			36KV BUS-SECTIONALIZER FOR GIS					
DISTRIBUTION OF PRINTS			BHARAT HEAVY ELECTRICALS LTD. BHOPAL					
R&D	SWE	QCK	DRN. SNK		SIGN		DATE	NO. OF VAR
1	1	1	CKD. MMR				19-Jun-15	
			APPD. NB				26-Jul-17	
REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED			CHECKED
		APPROVED			APPROVED			APPROVED
ZONE			ZONE			ZONE		
DEPT. GSG			UNTO. DIMS. GR.			SCALE 1 : 1		
CODE 35			WEIGHT (KG.) 3.208 kg			REF. TO. ASSY. DRG.		
			DRAWING NO. BD2016DG050_3120			ITEM NO.		
			TITLE CT PIPE			REV		
			SHEET NO.			NO. OF SHEETS		

(~3.2)



A-A (1 : 2)



NOTE : ALL SHARP CORNERS ARE CHAMFERED TO 0.8X45°

01		BLANK		DIA 200 X 32MM TH		Aluminum 6061		0.577 kg	
REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO.	MATL. CODE	UNIT	UNIT WT.	ZONE
					VAR.	MATL. SPCN.	QTY.		

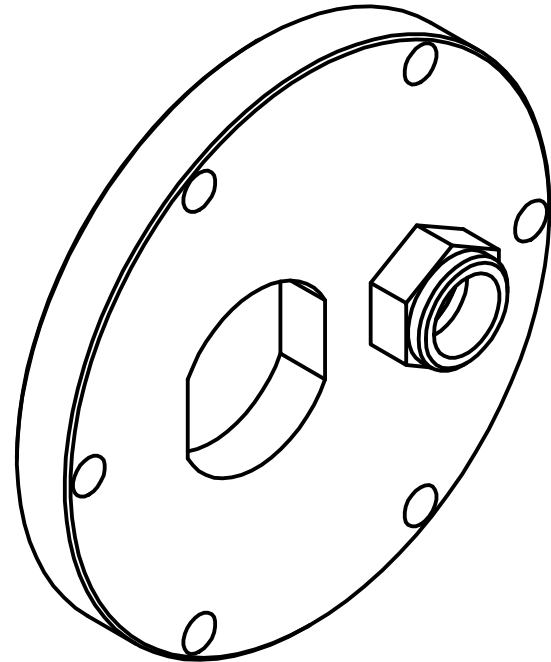
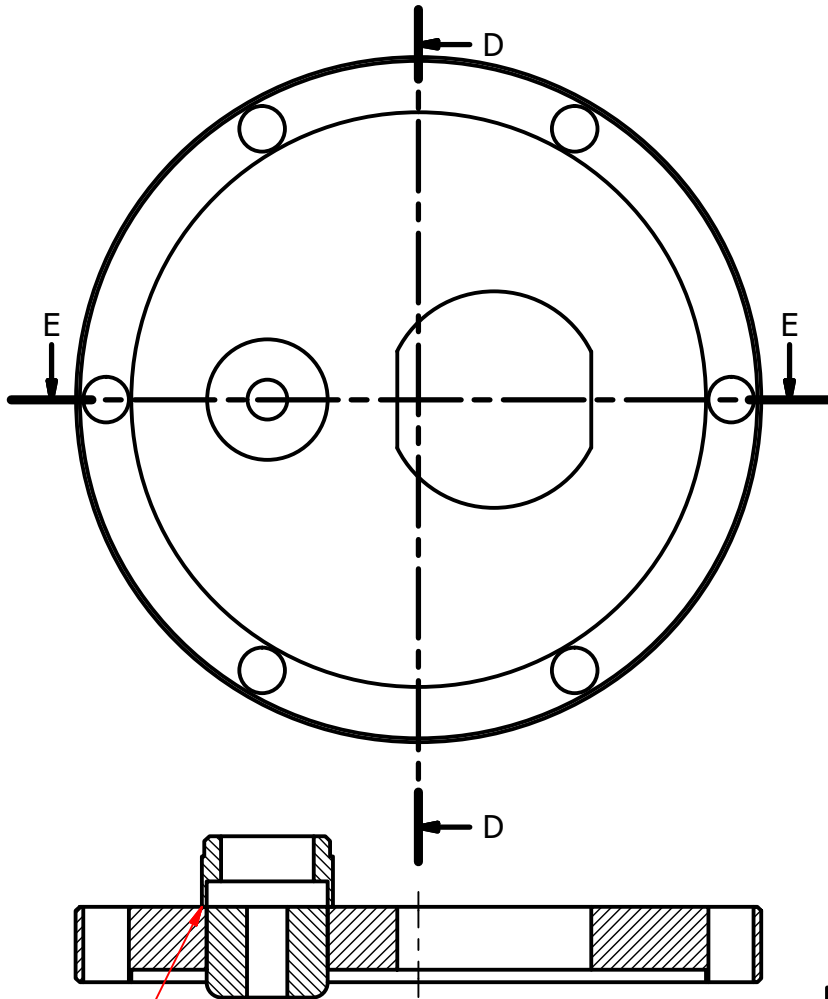
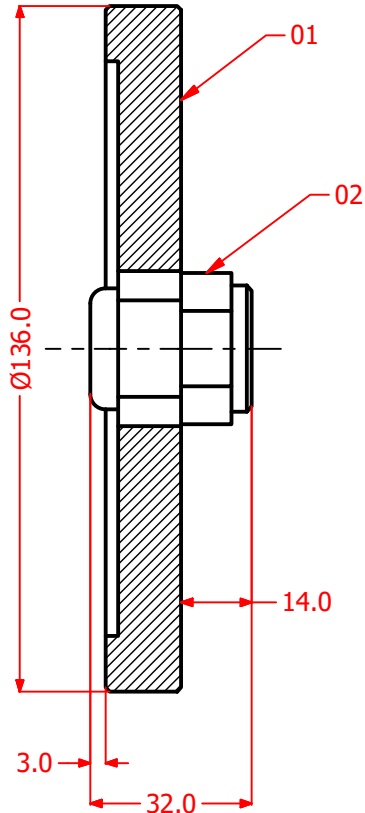
ADDITIONAL INFORMATION				TYPE OF PRODUCT OR NAME OF CUSTOMER / PROJECT				
STATUS OF DRAWING				36kV BUS-SECTIONALIZER FOR GIS				
DISTRIBUTION OF PRINTS				BHARAT HEAVY ELECTRICALS LTD. BHOPAL				
R&D	SWE	QCX		DRN.	SNK	SIGN	DATE	NO. OF VAR
1	1	1		CKD.	MMR		26-Jul-17	
				APPD	NB			

DEPT	UNTL. DIMS. GR.	SCALE	WEIGHT (KG.)	REF. TO. ASSY. DRG.	ITEM NO.	NO. OF ITEM
GSG		1 : 1	0.577 kg	BD2016DG050_3120		
CODE	35			DRAWING NO.	REV	
CT Shield				BD2016DG050_3123		
				SHEET NO.	NO. OF SHEETS	

DRAWING NO.
BD2016DG050_3130

(~3.2)

D-D (1 : 1.5)



GAS STUD IS TIG WELDED
COMPLETELY FROM OUTSIDE

E-E (1 : 1.5)

			02	GAS STUD	BD2016DG050_1123	S.S 304			0.08	
									01	
			01	CT CC BLANK	BD2016DG050_3131	S.S 304			1.31	
									01	
REMARKS	VAR. NO.	ITEM NO.		DESCRIPTION	DRAWING NO.	IT. NO.	MATL. CODE	A/C	UNIT WT.	
						VAR.	MATL. SPCN.		QTY.	

ADDITIONAL INFORMATION

STATUS OF DRAWING

DISTRIBUTION OF PRINTS

R&D	SWE	QCX
1	1	1

REV.	DATE	ALTERED
		CHECKED
		APPROVED

TYPE OF PRODUCT
OR
NAME OF CUSTOMER / PROJECT

36kV BUS-SECTIONALIZER FOR GIS

BHARAT HEAVY ELECTRICALS LTD.
BHOPAL

DEPT. GSG
CODE 35

UNTOL. DIMS. GR.
SCALE 1 : 1

DRN.	SNK	SIGN	DATE	NO. OF
CKD.	MMR		24-Jul-17	VAR
APPD	NB		26-Jul-17	

WEIGHT (KG.) 1.39
REF. TO. ASSY. DRG. BD2016DG050_3100
ITEM NO.

TITLE
CT-CC Blank Assy

DRAWING NO.
BD2016DG050_3130

SHEET NO. NO. OF SHEETS

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IT MUST NOT BE DISCLOSED TO OR REPRODUCED BY ANY THIRD PARTY WITHOUT THE WRITTEN PERMISSION OF THE COMPANY.

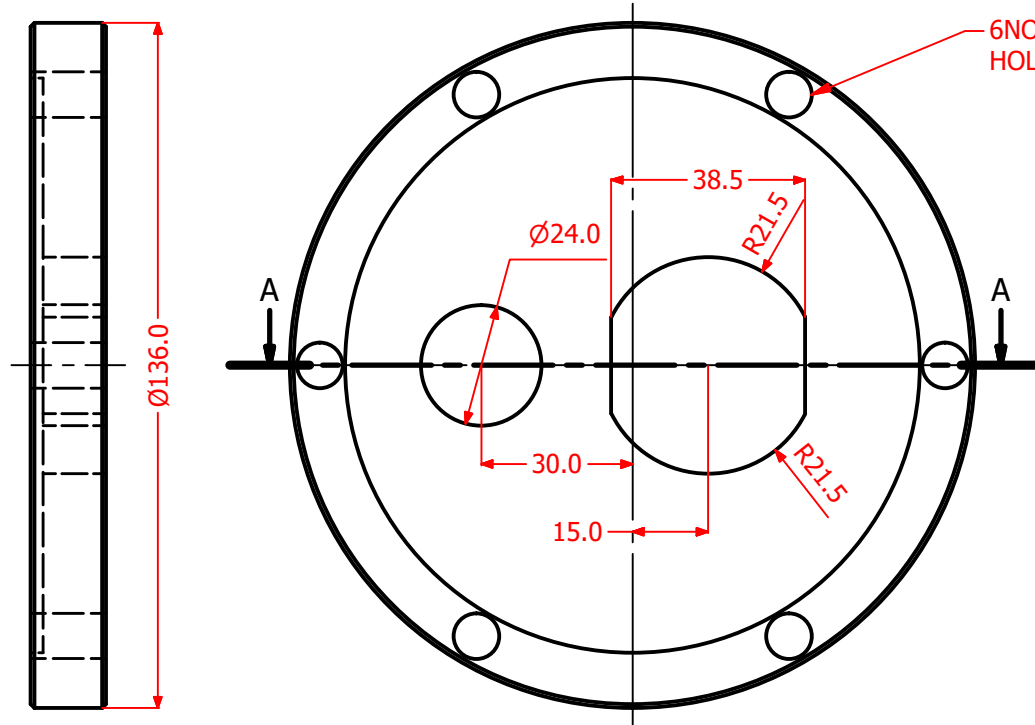
REF. DRG. NO.

SIGN. & DATE

INVENTORY NO.

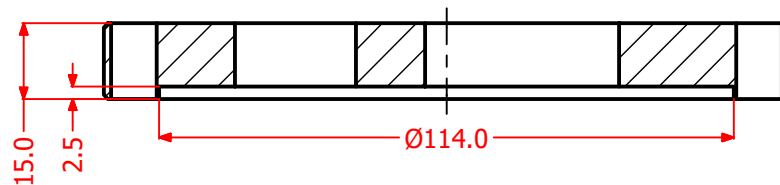
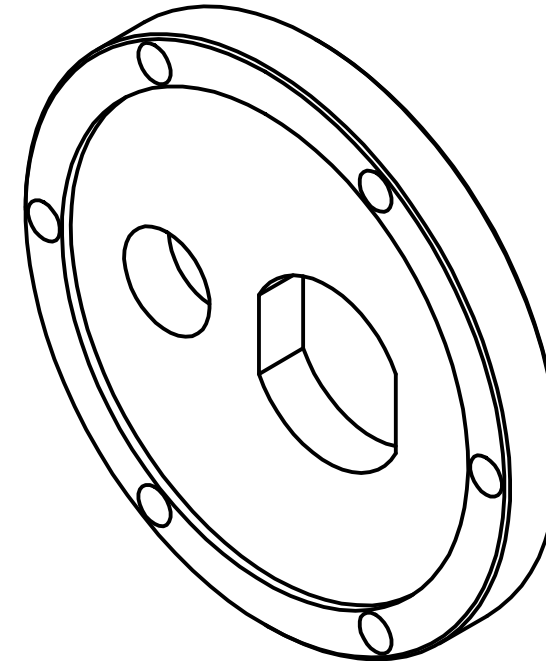
REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED			CHECKED			CHECKED
		APPROVED			APPROVED			APPROVED			APPROVED
ZONE			ZONE			ZONE			ZONE		

DRAWING NO. BD2016DG050_3131



6NOS., Ø9 CLEAR HOLES @ 124 PCD

A-A (1 : 1.5)



NOTE : ALL SHARP CORNERS ARE CHAMFERED TO 0.8X45°

		01	BLANK	DIA 120 X20MM THK		Stainless Steel, Austenitic		1.311 kg	
REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO.	MATL. CODE	UNIT	UNIT WT.	CS
					VAR.	MATL. SPCN.	QTY.		ZONE

ADDITIONAL INFORMATION				TYPE OF PRODUCT OR NAME OF CUSTOMER / PROJECT				
STATUS OF DRAWING				36KV BUS-SECTIONALIZER FOR GIS				
DISTRIBUTION OF PRINTS				BHARAT HEAVY ELECTRICALS LTD. BHOPAL				
R&D	SWE	QCX		DRN.	SNK	SIGN	DATE	NO. OF VAR
1	1	1		CKD.	MMR		11-Aug-15	
				APPD	NB		26-Jul-17	

DEPT	UNTO. DIMS. GR.	SCALE	WEIGHT (KG.)	REF. TO. ASSY. DRG.	ITEM NO.	NO. OF ITEM
GSG		1 : 1	1.311 kg	BD2016DG050_3130		
CODE	35			DRAWING NO.	REV	
CT_CC_Blank				BD2016DG050_3131		
				SHEET NO.	NO. OF SHEETS	