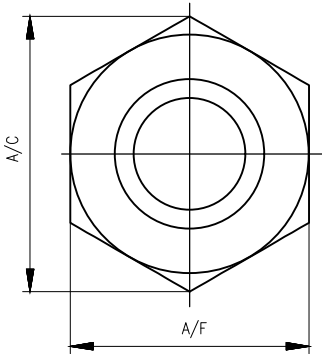
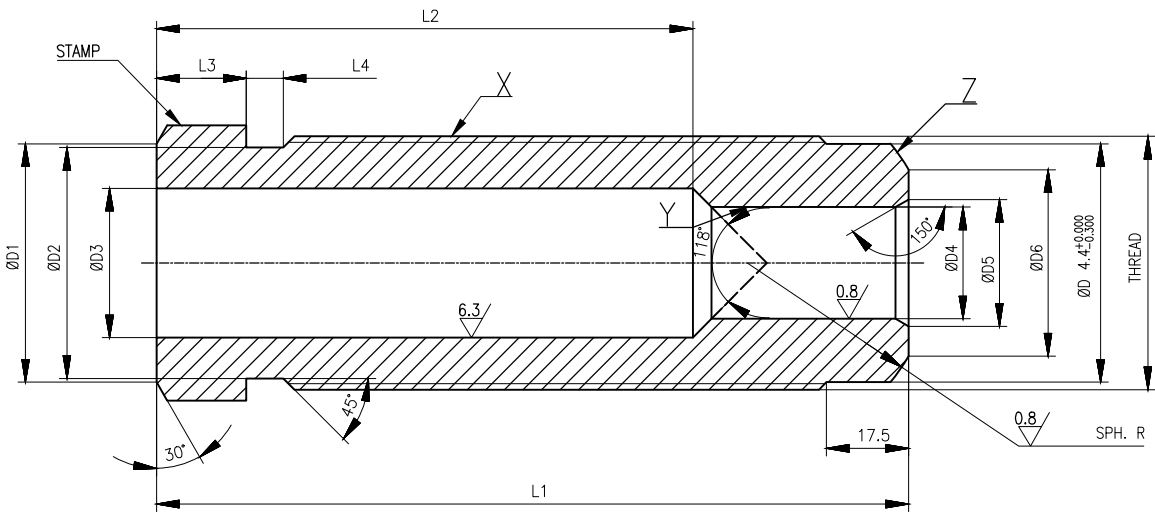


6676Z-0000-A-3
DRAWING NO.

3.2 / 6.3 / 0.8

SL.NO	DRAWING NO	MFG CODE	SD CODE	MODEL NO	DIMENSIONS															SPH. R	MATERIAL SPECS (CERTIFY)	NET WT (kg)	SCRAP SORT	REF.DRAWING NO	REF.DR.DRG. SL.NO
					A/C	A/F	LENGTH (mm)				DIAMETER (mm)							THREAD SIZE	LENGTH OF ENGAGEMENT (mm)						
							L1	L2	L3	L4	D1	D2	D3	D4	D5	D6	D7								
1	3-V-7000-29499/00	930700260000	964164770000	1739WD	58.7	50.8	168.3	114.3	19.1	7.9	50.8	49.2	31.8	23.8	27	39.7	50.8	2.125"-12NS-2A P.D2.0686"-2.0610"	88.9	31.8 ^{0 -0.100}	ASTM B584 ALLOY 875	2.27	60	3-V-7000-10020/04	6182
2	3-V-7001-29499/00	930700770000	964164510000	1749WB	69.6	60.3	200	139.7	19.1	7.9	60.3	58.7	31.8	23.8	27	42.9	60.3	2.5"-12NS-2A P.D2.4436"-2.4358"	95.25	38.1 ^{±0.050}		4.16	60	3-V-7001-10035/05	6183
3	3-V-7002-29499/00	930701260000	964164790000	1775QWB	58.7	50.8	196.9	136.5	19.1	7.9	50.8	49.2	33.3	30.2	33.3	39.7	50.8	2.125"-12NS-2A P.D2.0686"-2.0610"	88.9	31.8 ^{0 -0.100}		2.4	60	3-V-7002-10077/04	6199
4	3-V-7003-29499/00	930701700000	964164800000	1785WB	58.7	50.8	219.1	152.4	19.1	7.9	50.8	49.2	33.3	30.2	33.3	39.7	50.8	2.125"-12NS-2A P.D 2.0686"-2.0610"	88.9	31.8 ^{0 -0.100}		2.7	60	3-V-7003-10097/04	6189
5	3-V-7006-29499/00	930702330000	964164810000	1735WB	45.8	39.7	136.5	88.9	15.9	7.9	39.7	34.9	23.8	20.6	22.2	23.8	34.9	1.5"-12UNF-3A	-	20.675 ^{0 -0.100}		0.85	60	3-V-7006-10202/04	6181
6	3-V-7013-29499/00	930703200000	964164820000	1727B	45.8	39.7	131.8	82.6	15.9	7.9	39.7	34.9	23.8	17.5	20.6	23.8	34.9	1.5"-12UNF-3A	-	20.675 ^{0 -0.100}		0.95	60	3-V-7013-10306/04	6186
7	3-V-7016-29499/00	930703490000	964164830000	1737B	55	47.6	146.1	101.6	15.9	7.9	47.6	44.5	28.6	20.6	23.8	33.3	44.4	1.875"-14NS-2A P.D1.8266"-1.8198"	63.5	27.762 ^{±0.050}		1.54	60	3-V-7016-10218/04	6193
8	3-V-7022-29499/00	930704090000	964164840000	1715B	38.5	33.3	98.4	63.5	12.7	7.9	33.3	31.8	22.2	17.5	20.6	23.8	31.7	1.375"-12UNF-3A	-	19.05 ^{±0.050}		0.49	60	3-V-7022-10245/04	6192
9	3-V-7023-29499/00	930704540000	964164850000	1725B	42.1	36.5	111.1	76.2	12.7	7.9	36.5	31.8	22.2	17.5	20.6	23.8	31.7	1.375"-12UNF-3A	-	19.1 ^{0 -0.100}		0.56	60	3-V-7023-10267/04	6191
10	3-V-7047-29499/00	930710740000	964164860000	1765WD	58.7	50.8	177.8	127	19.1	7.9	50.8	49.2	31.8	23.8	27	39.7	50.8	2.125"-12NS-2A P.D2.0686"-2.0610"	88.9	31.8 ^{0 -0.100}		2.38	60	3-V-7047-10424/04	6184
11	3-V-7026-29499/00	930711140000	964164870000	1728WB	55	47.6	141.3	88.9	15.9	7.9	47.6	44.5	28.6	23.8	27	33.3	44.4	1.875"-14NS-2A P.D1.8266"-1.8198"	63.5	27.81 ^{0 -0.100}		1.47	60	3-V-7026-10321/04	6185
12	3-V-7081-29499/00	931701610000	964164880000	1786WB 6" x 10"	80.7	69.9	219.1	174.6	15.9	4.8	69.9	68.3	38.1	30.2	31.8	42.9	60.3	2.875"-12NS-2A P.D2.8185"-2.8105"	104.8	38.1 ^{±0.050}		5.6	60	3-V-7081-10478/02	3329
13	3-V-7123-29499/00	931708360000	964164910000	1730WD	58.7	50.8	180	126	19.1	7.9	50.8	49.2	31.8	23.8	27	39.7	50.8	2.125"-12NS-2A P.D2.0686"-2.0610"	88.9	31.8 ^{0 -0.100}		2.43	60	3-V-7123-11444/00	6182



NOTES:

- SURFACES 'Z' MUST BE CONCENTRIC WITH SURFACES 'X' & 'Y' WITHIN 0.125 T.I.R
- UNSPECIFIED MACHINING TOLERANCES ±0.25 mm.
- UNSPECIFIED ANGLE TOLERANCES ±½°.
- 45° CHAMFER FIRST THREAD.
- BREAK ALL SHARP CORNERS.

REV	DATE	ALTERED
		CHD & APPD

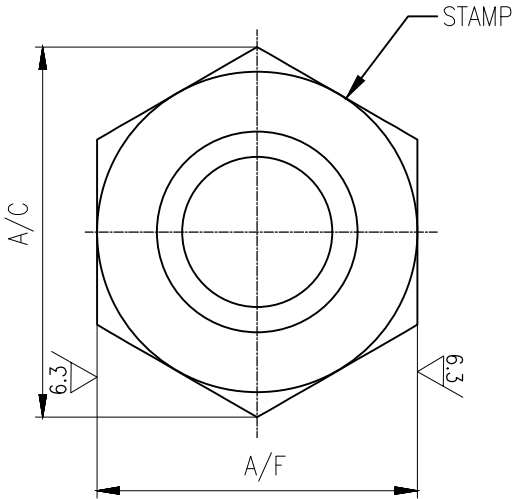
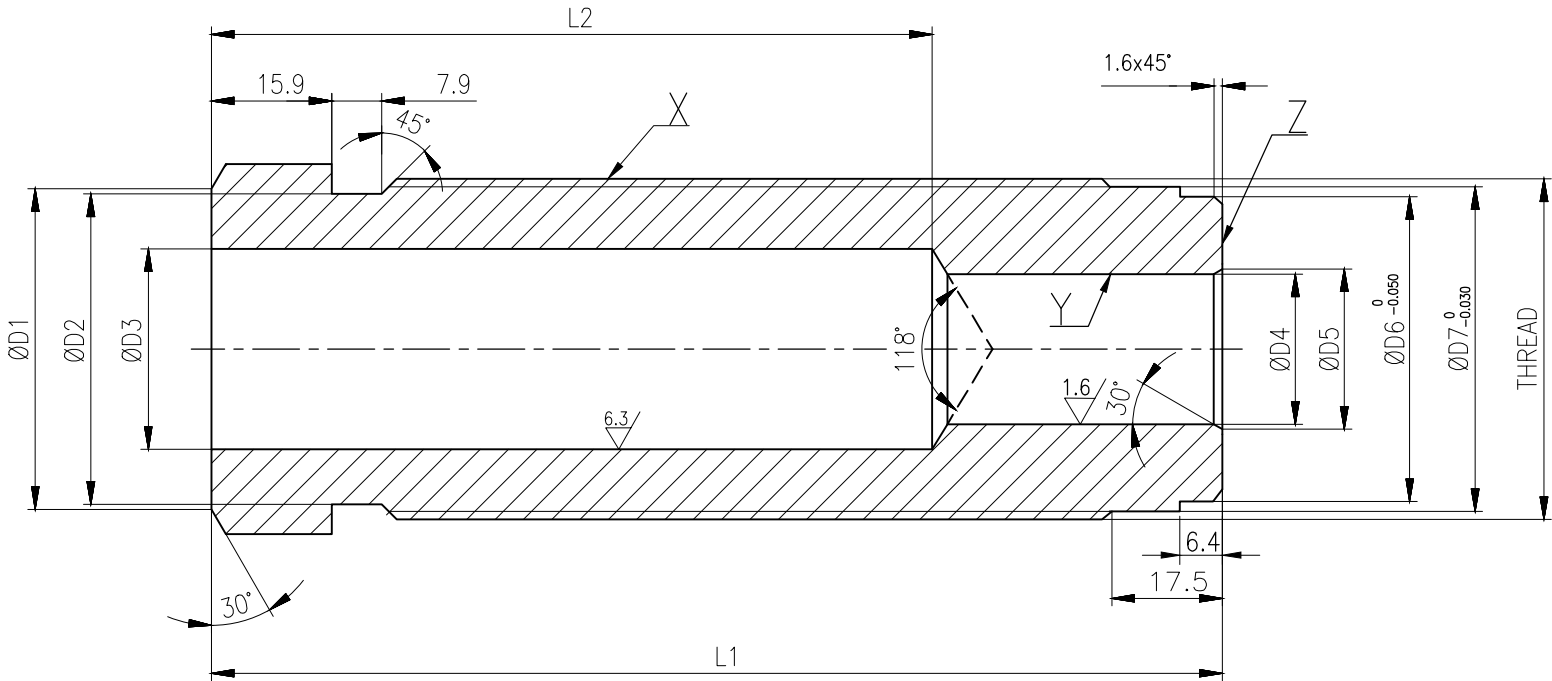
CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.

NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT									
SV									
ITEM NO : 101									
Bharat Heavy Electricals Ltd. BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014.				DRN	NAME A.KIRAN		SIGN	DATE 03.06.17	NO.OF VAR.
				CHD	R.RABIN			03.06.17	
				APPD	E.ATHIANNAVI			03.06.17	
DEPT VL	-	SCALE NTS	WEIGHT (KG).		REFERENCE INFORMATION				NO. OF ITEMS
CODE 340									
TITLE SPRING ADJUSTER (7000-1)					CARD CODE U 01	DRAWING NO. 3-V-0000-29499			REV 00

00967-0000-V-3
DRAWING NO.

3.2 / 6.3 / 1.6

SL.NO	DRAWING NO	MFG CODE	SD CODE	MODEL NO	DIMENSIONS												MATERIAL SPECS (CERTIFY)	NET WT (kg)	SCRAP SORT	REF DRAWING NO	REF.DR.DRG SL.NO	
					A/C	A/F	LENGTH (mm)		DIAMETER (mm)							THREAD SIZE						LENGTH OF ENGAGEMENT (mm)
							L1	L2	D1	D2	D3	D4	D5	D6	D7							
1	3-V-7114-29500/01	931706840000	964164890000	1728WBS3	55	47.6	125	80	47.6	44.5	28.6	23.8	27	43.56	44.4	1.875"-14NS-2A P.D 1.8266"-1.8198"	63.5	ASTM B584 ALLOY 875	1.18	60	3-V-7114-10682/02	9323
2	3-V-7116-29500/01	931707730000	964164900000	1718WBS3	45.8	39.7	125.4	95.3	39.7	34.9	23.8	19.1	19.1	34.19	34.9	1.5"-12UNF-2A	-		1.33	60	3-V-7116-11078/01	9327



NOTES:

1. SURFACES 'Z' MUST BE CONCENTRIC WITH SURFACES 'X' & 'Y' WITHIN 0.125 T.I.R
2. UNSPECIFIED MACHINING TOLERANCES ± 0.25 mm.
3. UNSPECIFIED ANGLE TOLERANCES $\pm 1/2^\circ$.
4. 45° CHAMFER FIRST THREAD.
5. BREAK ALL SHARP CORNERS.

REV	DATE	ALTERED	J.D.B
01	14.02.19	CHD & APPD	R.R & S.M
DIM. ØD6 LOCATION CHANGED.			
DCP:802489		DT.:14-11-18	

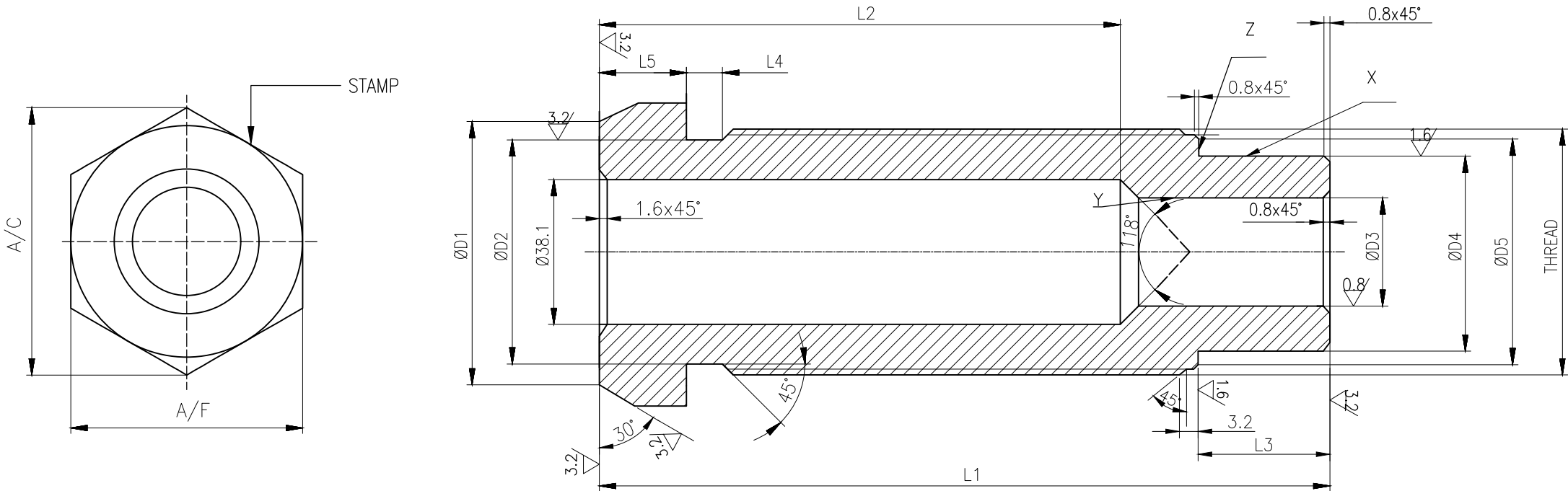
CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.

NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT									
SV									
ITEM NO : 101									
BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014.					DRN	NAME A.KIRAN	SIGN	DATE 03.06.17	NO.OF VAR.
					CHD	R.RABIN		03.06.17	
					APPD	E.ATHIANNAVI		03.06.17	
DEPT VL	-		SCALE NTS	WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS
CODE 340									
TITLE SPRING ADJUSTER (7000-2)						CARD CODE U 01	DRAWING NO. 3-V-0000-29500		REV 01

3-V-0000-29501
DRAWING NO.

6.3/
3.2/
1.6/
0.8/

SL.N O	DRAWING NO	MFG CODE	SD CODE	MODEL NO	DIMENSIONS												MATERIAL SPECS (CERTIFY)	NET WT (kg)	SCRAP SORT	REF DRAWING NO	REF.DR.D RG.SL.NO		
					A/C	A/F	LENGTH (mm)					DIAMETER (mm)										THREAD SIZE	LENGTH OF ENGAGEMENT (mm)
							L1	L2	L3	L4	L5	D1	D2	D3	D4	D5							
1	3-V-7132-29501/00	931708890000	964164920000	1787WB	88	76.2	270	193.8	60.3	4.8	15.9	76.2	68.3	30.2	47.6 ^{0 -0.025}	68.3	2.875"-12NS-2A P.D 2.8185"-2.8105"	104.8	ASTM B584 ALLOY 875	6.1	60	3-V-7132-12070/01	6190
2	3-V-7301-29501/00	931710530000	964164930000	173AWP	73	63.5	231.8	158.8	57.2	7.9	19.1	63.5	58.7	23.8	41.245 ^{0 -0.025}	58.7	2.5"-12UNS-2A P.D-2.4436"-2.4358"	95.3		3.1	60	3-V-7301-12964/01	6194



NOTES:

1. DIAMETERS X & Y AND SURFACES Z TO BE PERPENDICULAR WITHIN 0.025
2. SURFACES 'Z' MUST BE CONCENTRIC WITH SURFACES 'X' & 'Y' WITHIN 0.125 T.I.R
3. UNSPECIFIED MACHINING TOLERANCES ± 0.25 mm.
4. UNSPECIFIED ANGLE TOLERANCES $\pm \frac{1}{2}^\circ$.
5. 45° CHAMFER FIRST THREAD.
6. BREAK ALL SHARP CORNERS.

REV	DATE	ALTERED
		CHD & APPD

CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.

NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT									
SV									
ITEM NO : 101									
BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014.					DRN	A.KIRAN	SIGN	DATE	NO.OF VAR.
					CHD	R.RABIN		03.06.17	
					APPD	E.ATHIANNAVI		03.06.17	
DEPT VL	-		SCALE NTS	WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS
CODE 340									
TITLE SPRING ADJUSTER (7000-3)						CARD CODE U 01	DRAWING NO. 3-V-0000-29501		REV 00

CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.

FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN MILLIMETRES).

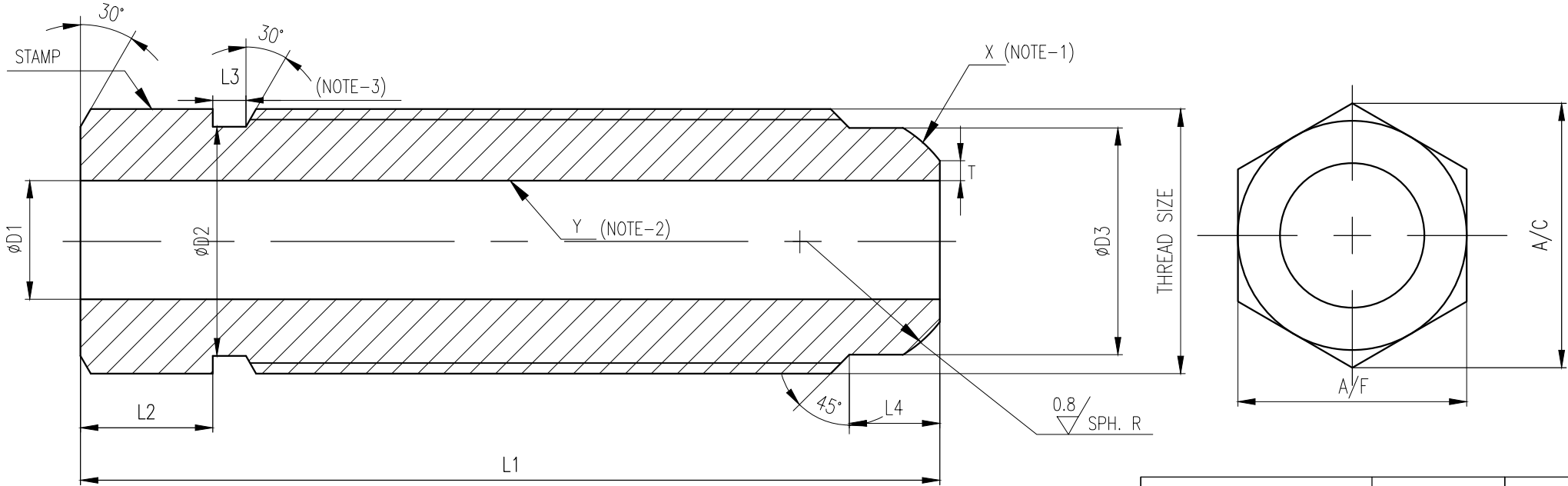
3-V-0000-29502

DRAWING NO.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP / QP.

3.2/0.8

SL.NO	DRAWING.NO	MFG CODE	SD CODE	MODEL NO	DIMENSIONS											MATERIAL SPECIFICATION (CERTIFY)	NET WT (kg)	SCRAP SORT	REF.DRG.NO	REF.DR.DRG. SL.NO	
					A/C	A/F	LENGTH (mm)				DIA ϕ (mm)			T (mm)	SPH. R						THREAD SIZE
							L1	L2	L3	L4	D1	D2	D3								
1	3-V-7805-29502/00	930705690000	964164950000	1811KA3X20	25.4	22.0	82.6	12.7	3.2	8.7	13.9 ⁺⁰ _{-0.25}	22.2	21.8	0.785 ^{±0.125}	12.7 ⁺⁰ _{-0.125}	1"-14UNS-3A	ASTM B584 ALLOY 875	0.22	60	3-V-7805-10275/04	2498
2	3-V-7827-29502/00	930709200000	964164970000	1811QD3X22	55.0	47.6	144.5	12.7	7.1	9.5	23.8 ⁺⁰ _{-0.25}	37.3	37.3	3.2 ^{±0.125}	23.815 ^{±0.175}	1.6875"-12UN-3A		1.3	60	3-V-7827-10415/02	2659
3	3-V-7810-29502/00	930708660000	964164960000	1811LA8X21	25.4	22.0	92.1	12.7	3.2	8.7	13.9 ⁺⁰ _{-0.25}	22.2	21.8	0.785 ^{±0.125}	12.7 ⁺⁰ _{-0.125}	1"-14UNS-3A		0.25	60	3-V-7810-10330/03	2498
4	3-V-7802-29502/00	930705410000	964164940000	1811NA3X20	31.2	27.0	98.4	12.7	3.2	9.5	15.9 ⁺⁰ _{-0.25}	28.6	27.0	0.8 ^{±0.125}	14.3 ⁺⁰ _{-0.125}	1.25"-12UNF-3A		0.5	60	3-V-7802-10309/03	2970
5	3-V-7800-29502/00	930705100000	964164780000	1811HA6X20	21.9	19.0	74.6	10.3	3.2	7.9	12.3 ⁺⁰ _{-0.25}	19.5	18.7	0.785 ^{±0.125}	11.10 ⁺⁰ _{-0.125}	0.875"-14UNF-3A		0.14	60	3-V-7800-10110/04	1017
6	3-V-7866-29502/00	931706540000	964165010000	1811HA8X20	21.9	19.0	65.9	10.3	3.2	7.9	12.3 ⁺⁰ _{-0.25}	19.5	18.7	0.785 ^{±0.125}	11.10 ⁺⁰ _{-0.125}	0.875"-14UNF-3A		0.12	60	3-V-7866-10670/01	1017
7	3-V-7834-29502/00	930711980000	964165000000	1811GA6X20	19.6	17.0	61.9	10.3	3.2	7.1	10.31 ⁺⁰ _{-0.25}	16.7	16.7	0.785 ^{±0.125}	9.525 ⁺⁰ _{-0.125}	0.75"-16UNF-3A		0.1	60	3-V-7834-10459/02	2660



NOTES

1. BEARING SURFACE X TO BE CONCENTRIC WITH THREAD TO WITHIN 0.125 TOTAL INDICATOR READING.
2. INSIDE DIAMETER Y TO BE CONCENTRIC WITH THREADS TO WITHIN 0.380 TOTAL INDICATOR READING.
3. RECESS TO BOTTOM OF THREAD BEFORE THREADING.
4. SHARP CORNERS TO BE REMOVED.
5. UNSPECIFIED MACHINING TOLERANCES ± 0.25 mm.
6. UNSPECIFIED ANGLE TOLERANCES $\pm 1/2^\circ$.
7. 45° CHAMFER FIRST THREAD.

DESCRIPTION		MATL CODE	FINAL MATL	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM NO.
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		SV							
Bharat Heavy Electricals Ltd.		DRN	NAME		SIGN		DATE		
UNIT: HIGH PRESSURE BOILER PLANT.		CHD	RABIN R				03-06-17		
TIRUCHIRAPALLI-620014.		APPD	ATHIANNAVI E				03-06-17		
DEPT VL			SCALE		WEIGHT (KG).		REFERENCE INFORMATION		
CODE 340			N T S						
TITLE								DRAWING NO.	
SPRING ADJUSTER (7800-1)								3-V-0000-29502	
								REV	
								00	

CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.

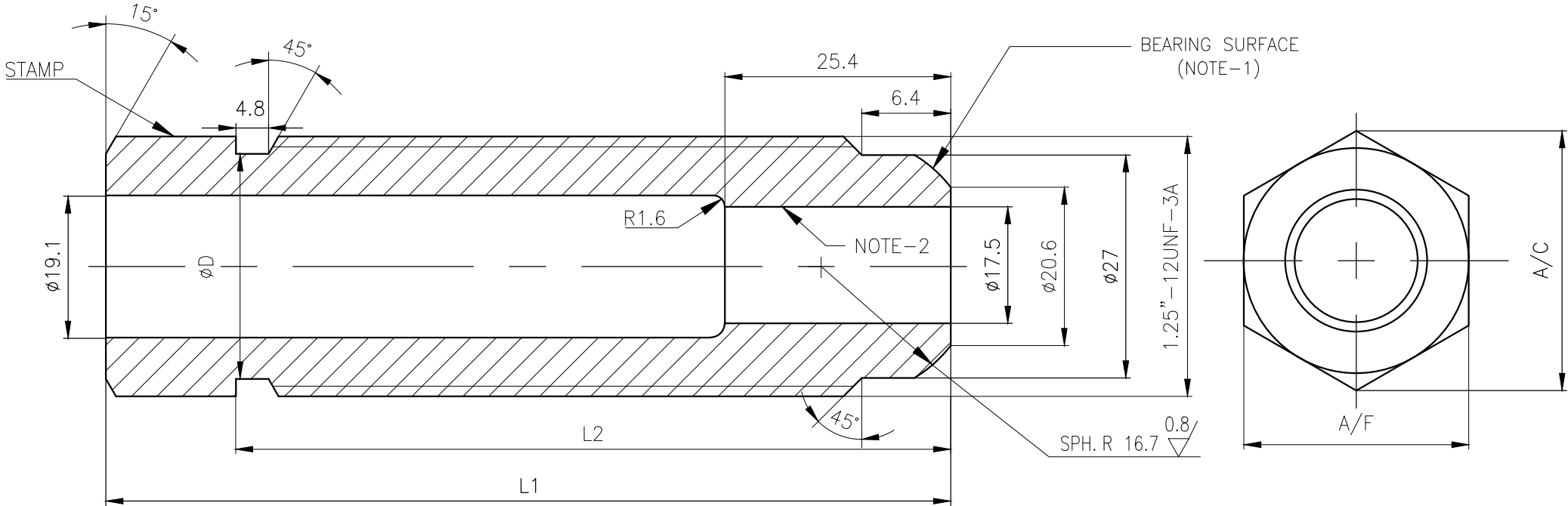
FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN MILLIMETRES).

3-V-0000-29503
DRAWING NO.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP / QP.

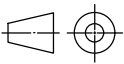
3.2 / 0.8

SL.NO	DRAWING.NO	MFG CODE	SD CODE	MODEL NO	DIMENSIONS					MATERIAL SPECIFICATION (CERTIFY)	NET WT (kg)	SCRAP SORT	REF.DRG.NO	REF.DR.DRG. SL.NO
					A/C	A/F	LENGTH (mm)		DIA Ø (mm)					
							L1	L2	D					
1	3-V-7803-29503/00	930711380000	964164980000	1811PA3X20	36.7	31.8	120.7	108	27.8	ASTM B584 ALLOY 875	0.55	60	3-V-7803-10428/02	2869
2	3-V-7826-29503/00	930711590000	964164990000	1811PD3X22	34.8	30.1 ^{+0 -0.700}	100	87.3	29		0.44	60	3-V-7826-10409/02	2614

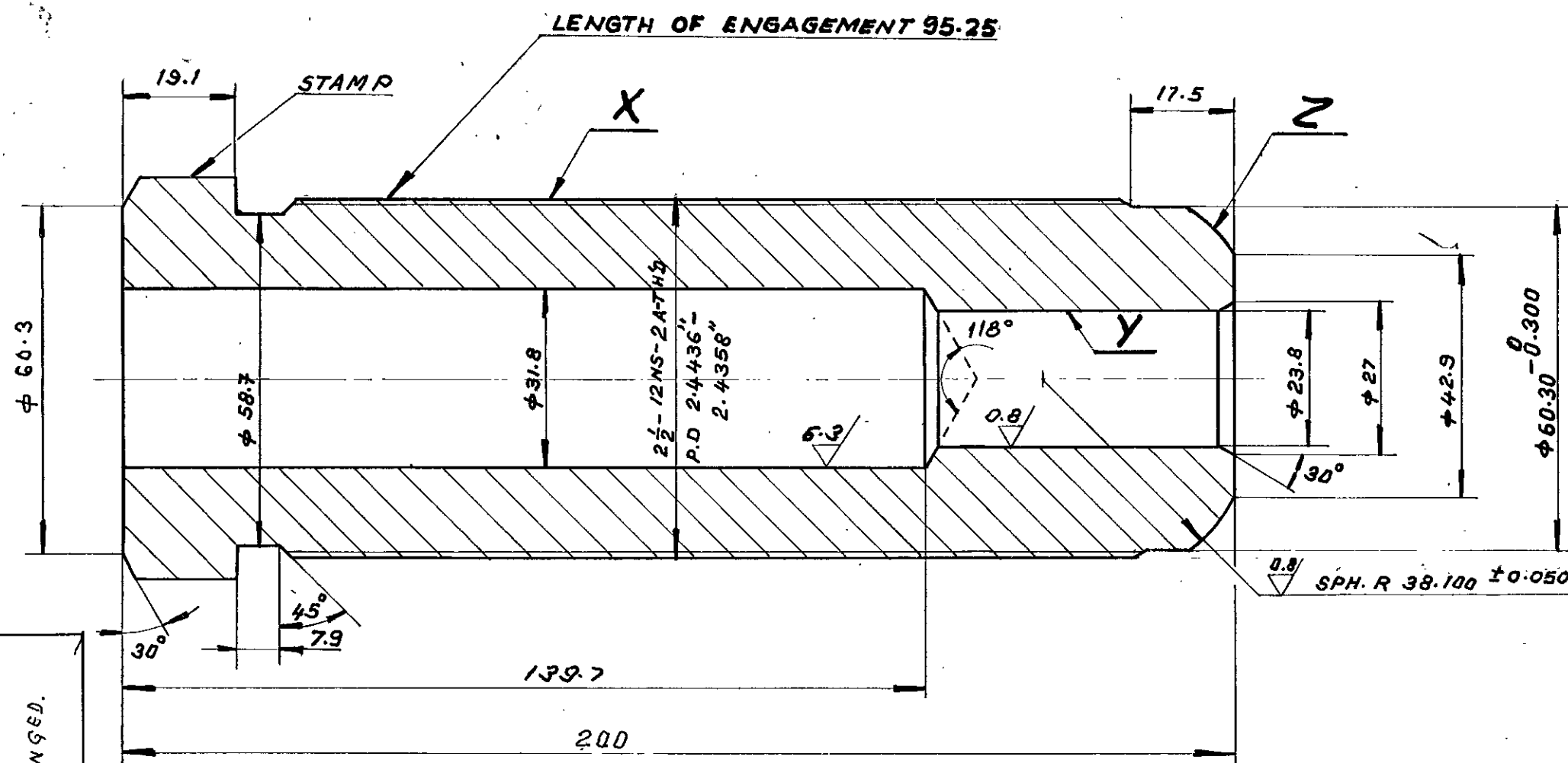


NOTES:-

1. BEARING SURFACE TO BE CONCENTRIC WITH THREADS WITHIN 0.125 T.I.R.
2. INSIDE DIA TO BE CONCENTRIC WITH THREADS WITHIN 0.380 T.I.R
3. SHARP CORNERS TO BE REMOVED
4. UNSPECIFIED MACHINING TOLERANCES $\pm 0.25\text{mm}$
5. UNSPECIFIED ANGLE TOLERANCE $\pm 1/2^\circ$
6. 45° CHAMFER FIRST THREAD

DESCRIPTION	MATL CODE	FINAL MATL	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM NO.
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT								ITEM NO : 101
 365-121 BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014.				DRN	NAME	SIGN	DATE	
				CHD	RABIN R		03-06-17	
				APPD	ATHIANNAVI E		03-06-17	
DEPT VL			SCALE	WEIGHT (KG).	REFERENCE INFORMATION			NO. OF ITEMS
CODE 340			N T S					
TITLE				CARD CODE	DRAWING NO.		REV	
SPRING ADJUSTER (7800-2)				U 01	3-V-0000-29503		00	

CAUTION THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

**NOTE:-**

1. SHARP CORNERS TO BE REMOVED.
2. 45° CHAMFER FIRST THREAD.
3. UNSPECIFIED ANGLE TOLERANCES $\pm \frac{1}{2}^\circ$
4. IMPORTED CODE - 97442149
5. SURFACE 'Z' MUST BE CONCENTRIC WITH SURFACES 'X' & 'Y' WITHIN 0.125 T.I.R.

DATE ALTD: 3-10-97
DIMENSIONS 200 WAS
190.5
RAW MATL. SIZE CHANGED.
DCN. NO. SV: 0450

REV 04 DATE 12-6-97
ALTD: CHD APPD: V.P.
1. DIMENSIONS & TOLERANCES ROUNDED OFF
2. NOTES UPDATED.
DCN No.: SV: 0434

REV 03 DATE 15/2/88
ALTERED: CHECKED: V.P.
FINAL MATL. ASTM 8584
ALLOY 875 WAS ASTM 8371
ALLOY 894.
DESCRIPTION, MATL. CODE &
GROSS WT. CHANGED.

REV 02 DATE 6/4/85
ALTERED: CHECKED: V.P.
HEAD DIMENSIONS ARE
CHANGED AS PER DR. REV.
EC 740

REV 01 DATE 21/9
ALTERED: CHECKED: V.P.
Φ 31.8 BORE LENGTH
AND HEAD DIMENSIONS
ARE CHANGED.

MICROFILMED ON 20-1-84
ROLL 005323 FILE 001A

No. OFF	DESCRIPTION	MATL. CODE	ASTM 8584 ALLOY 875 CERTIFY	60	4.16	10.20	101
	FINAL MATL.	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRG No.	ITEM No.	



05-229/B

BHARAT HEAVY ELECTRICALS LIMITED
BOILER PLANT UNIT, TIRUCHIRAPALLI-620014

DEPT VL	CODE 340	SCALE 1:1	WEIGHT (kg.)	PART No. VTY 898 BRESS DRG No. VTY 898/EC 725	S/No. 6183
TITLE SPRING ADJUSTER			DRAWN T.R.	SIGN V.P.	DATE 24.04.79
DIMENSIONS TO BE CONTROLLED WITHIN LIMITS AS SHOWN. MACHINING TOLERANCE ± 0.25 mm UNLESS OTHERWISE SHOWN. NON-MACHINING TOLERANCE $\pm$			CHECKED V.P.	SIGN J.A.	DATE 24.4.79
DRAWING No. 3-V-7001-10035			13 15 REV 17		
CARD CODE 1749 WA			No. OF SHEETS		

QMAC CODE 930700770000

SIZE A-3

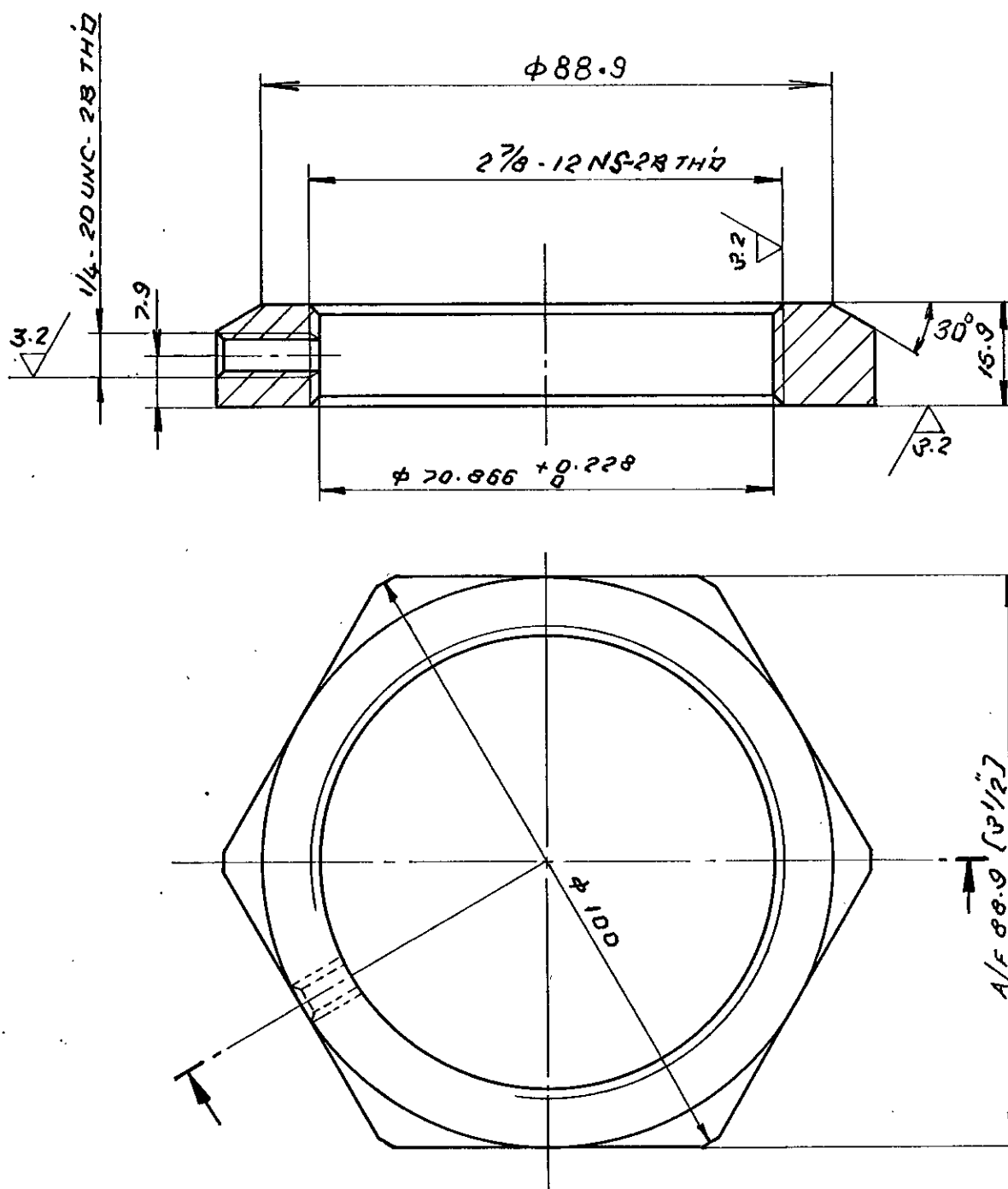
FIRST ANGLE PROJECTION (ALL DIMENSIONS IN MILLIMETRES)

05-229/C

CAUTION THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

3-V-7081-10479/01

DRAWING No



NOTES:-

1. UNSPECIFIED MACHINING TOLERANCES $\pm 0.25 \text{ mm}$.
2. ROUND CORNERS ARE PERMISSIBLE.
3. 45° CHAMFER FIRST THREAD.

REV	DATE	ALTERED	CHECKED
01	14/2/86	<i>[Signature]</i>	KJ
FINAL MATL. ASTM A 584 ALLOY 875 WAS ASTM A 871 ALLOY 694. DESCRIPTION, MATL. CODE & GROSS WT. CHANGED.			

$\phi 100 \times 22$	16013423	ASTM A 584 ALLOY 875 AMENDED CERTIFY	60	0.36	1.48	102			
NO OFF	DESCRIPTION	MATL. CODE	FINAL MATL.	HEAT TREATMENT	SCRAP SORT	NET WT. (kg)	GROSS WT. (kg)	DRG. NO.	ITEM NO.
		Bharat Heavy Electricals Ltd., BOILER PLANT UNIT TIRUCHIRAPALLI-620 014			DRN	NAME K. R. LEON	SIGN <i>[Signature]</i>	DATE 3-1-84	NO. OF VAR
					CHD	V. PERUMAL	V. Perumal	15-2-84	
					APPD	S. RASHID	<i>[Signature]</i>		
DEPT.		GRADE OF UNTOL. DIM C/M/F		SCALE 1:1	WEIGHT (kg)		DR. DRG. No: 297668/ CF033		SL. NO. 4443
CODE							PART No: 0766801		
TITLE LOCK NUT					CARD CODE U 01	DRAWING NO. 3-V-7081-10479			REV 01

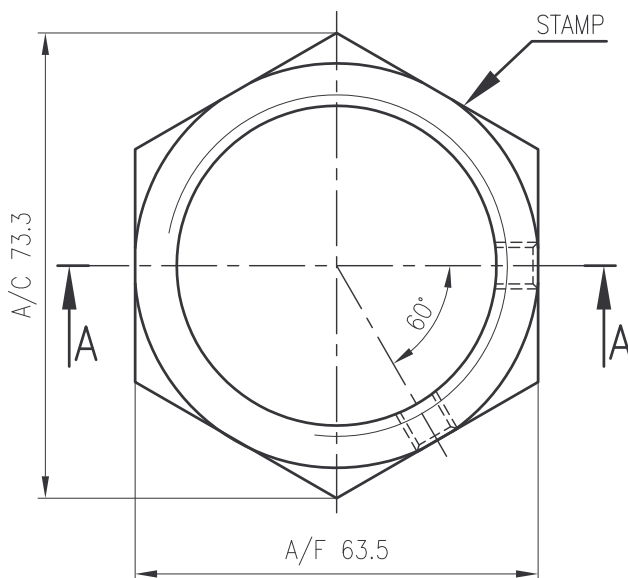
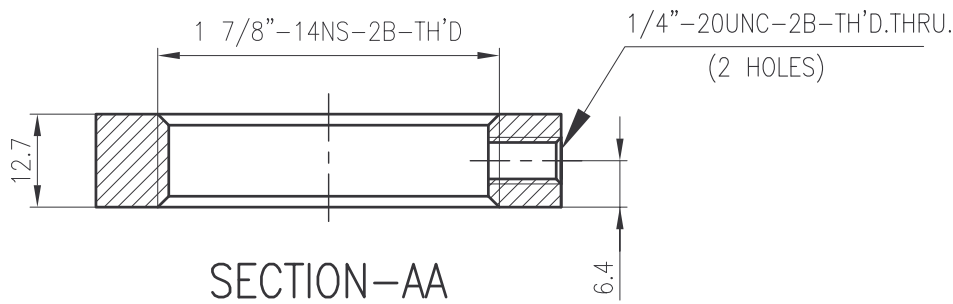
OMAC CODE: 931701620000

CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP

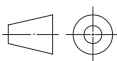
REV	DATE	ALTERED
		CHD & APPD



NOTE:

1. BREAK SHARP CORNERS & REMOVE BURRS.
2. 45° CHAMFER FIRST THREAD.

COMP. CODE: 93 171 032 0000

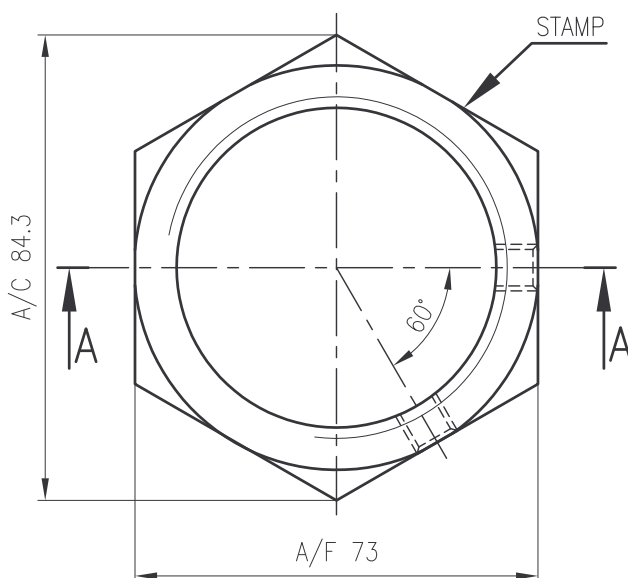
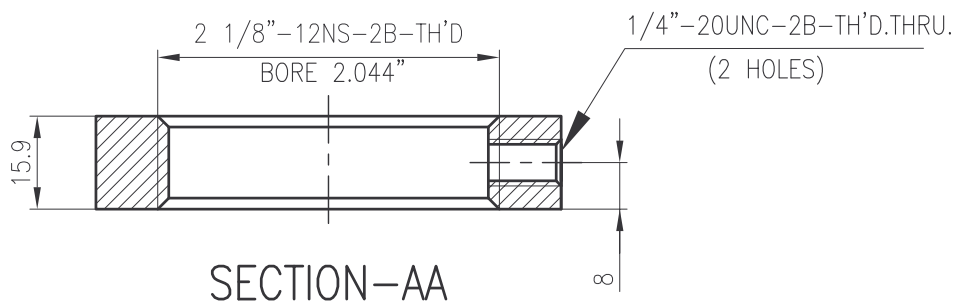
—	Ø85 x 20	16 013 426	ASTM B584 ALLOY 875 CERTIFY	—	60	0.22	0.97	—	102
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 365-122 BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.					DRN	NAME T.JAGAN	SIGN	DATE 14.10.10	NO.OF VAR
					CHD	V.PERUMALPILLAI		14.10.10	
					APPD	E.ATHIANNABI		14.10.10	
					REFERENCE INFORMATION				
DEPT VL	—		SCALE N T S	WEIGHT (KG). —	DRESSER DRG No.141348/ REV: EZ692 PART No: 4134801/SL.No: 11624				
CODE 340									
TITLE LOCK NUT					CARD CODE U 01	DRAWING NO. 4-V-7138-10584			REV 00

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP

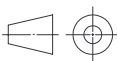
REV	DATE	ALTERED
		CHD & APPD

3.2

**NOTE:**

1. BREAK SHARP CORNERS & REMOVE BURRS.
2. 45° CHAMFER FIRST THREAD.

COMP. CODE: 93 171 033 0000

—	ø85 x 22	16 013 426	ASTM B584 ALLOY 875 CERTIFY	—	60	0.2	1.07	—	102
N O O F F	D E S C R I P T I O N	M A T L C O D E	M A T L S P E C N	H E A T T R E A T M E N T	S C R A P S O R T	N E T W T (k g)	G R O S S W T (k g)	D R A W I N G N o	I T E M N o
 3 6 5 - 1 2 2 BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.					DRN	NAME T.JAGAN	SIGN	DATE 14.10.10	NO.OF VAR
					CHD	V.PERUMALPILLAI		14.10.10	
					APPD	E.ATHIANNABI		14.10.10	
					REFERENCE INFORMATION DRESSER DRG No.141350/ REV: EZ692 PART No: 4135001/SL.No: 11626				
DEPT VL	—		SCALE	WEIGHT (KG).	REFERENCE INFORMATION DRESSER DRG No.141350/ REV: EZ692 PART No: 4135001/SL.No: 11626				NO. OF ITEMS
CODE 340			N T S						
TITLE LOCK NUT					CARD CODE U 01	DRAWING NO. 4-V-7139-10585			REV 00

Size A4

REV 01	ALTERED	VA	REV 02	DATE	12/2/86	ALTERED	Three
	CHECKED	✓				CHECKED	kw

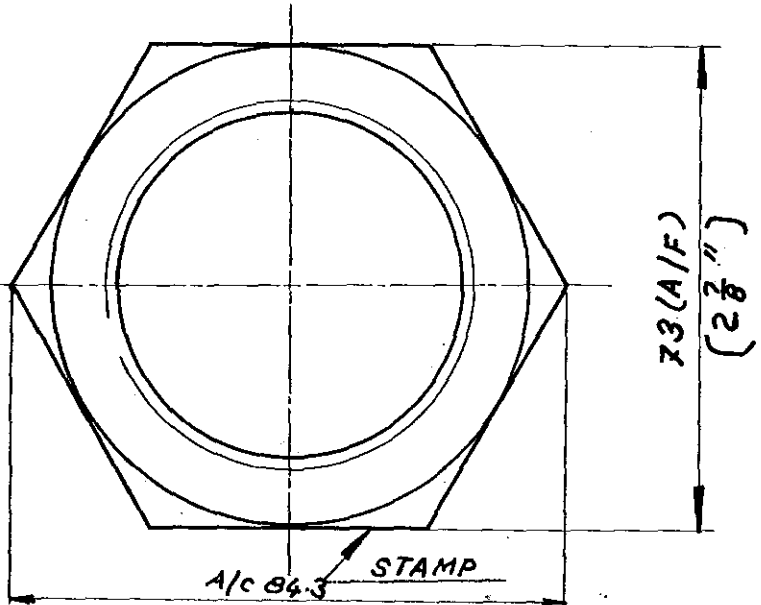
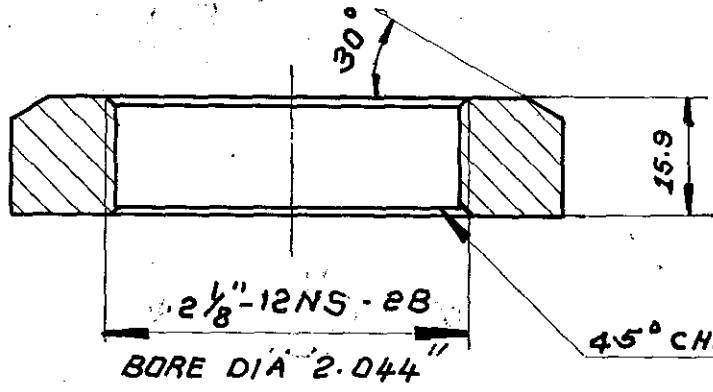
1. RAW MATL. SIZE CHANGED
2. MATL. CODE & HEAT TREAT ADDED

FINAL MATL. ASTM A584 ALLOY 875 WAS ASTM A371 ALLOY 694
DESCRIPTION, MATL. CODE & GROSS WT. CHANGED

3.2

CAUTION THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

APPLICABLE TYPE NOS
1775QWA, QWB, QWD
1775 WA, 1785 WA
1705 RWD



ALL THREAD DIMENSIONS ARE IN INCHES.
BREAK SHARP CORNERS. & REMOVE BURRS.

00593 FRAME 366

NO. OFF	DESCRIPTION	MATL. CODE	FINAL MATL.	HEAT TREATMENT	SCRAP NET WT (KG)	GROSS WT (KG)	DRAWING NO.	ITEM NO.
	Φ 85 x 22	16013426	ASTM A584 ALLOY 875 AMENDED CERTIFY	60	0.2	1.07		102



BHARAT HEAVY ELECTRICALS LIMITED
BOILER PLANT UNIT, TIRUCHIRAPALLI-620 014

DEPT	CODE	SCALE	WEIGHT (kg.)	DR. DRG. NO: V6443-P/CK221	IT. NO. 627
TITLE				DRAWN	NAME
LOCK NUT				CHECKED	SIGN
				APPROVED	DATE
				19/3/87	

DIMENSIONS TO BE CONTROLLED WITHIN LIMITS AS SHOWN. MACHINING TOLERANCE ± 0.25 mm. UNLESS OTHERWISE SHOWN NON-MACHINING TOLERANCE $\pm$

CARD CODE	1 DRAWING NO.	15	16 REV 17
	4-V-7000-10021		

1739 WD

OMAC CODE 930700360000

TP-DG-4-V-7000-10021
CORPORATE DRG ID

APPL.
DRESSER
TYPE NOS

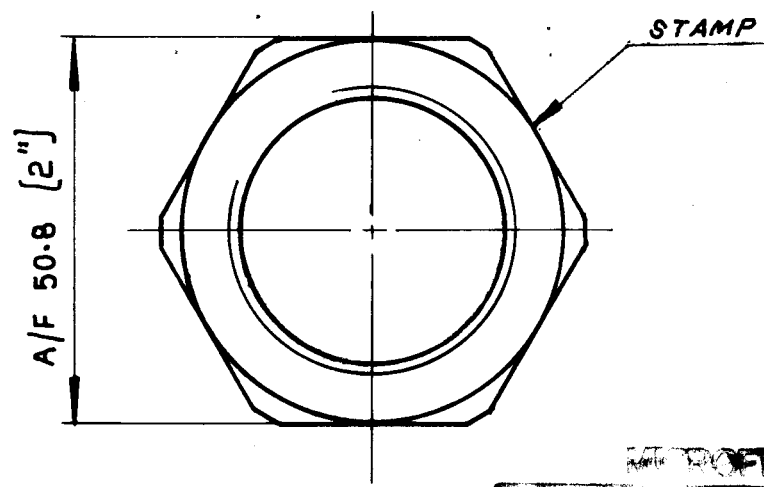
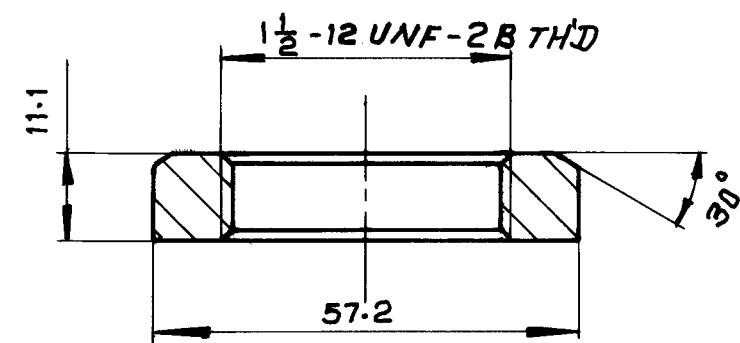
OMAC CODE 930700850000

CAUTION THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

REV	DATE	ALTERED
01	12/2/86	CHECKED
02		CHECKED

FINAL MATL, ASTM A584
ALLOY 875 WAS ASTM A371
ALLOY 594. DESCRIPTION,
MATL. CODE & GRADE WT. CHANGED

3.2



NOTES:-

1. 45° CHAMFER FIRST THREAD
2. BREAK SHARP CORNERS AND REMOVE BURRS

MICROFILMED ON
ROLL DC52B FRAME PRA

	φ 63 x 17	15 025 001	ASTM A 584 ALLOY 875		60	0-08	0.45		102
No OFF	DESCRIPTION	MATL. CODE	AMENDED CERTIFY FINAL MATL.	HEAT TREATMENT	SCRAP SORT	NET WT (Kg)	GROSS WT (Kg)	DRAWING No	ITEM No

APPL. DRESSER TYPE Nos



05-249/A

BHARAT HEAVY ELECTRICALS LIMITED
BOILER PLANT UNIT, TIRUCHIRAPALLI-620014

DEPT	CODE	SCALE	WEIGHT (kg)	DRESSER DRG. No	NAME	SIGN	DATE
				Y6432-AY/CD 609 PART No 0087095/SL No 2644	V.A.		7-1-80
TITLE LOCK NUT				DRAWN	CHECKED	APPROVED	

DIMENSIONS TO BE CONTROLLED WITHIN LIMITS AS SHOWN. MACHINING TOLERANCE ± 0.25 mm. UNLESS OTHERWISE SHOWN NON-MACHINING TOLERANCE $\pm$

CARD CODE

1 DRAWING NO.

4-V-7006-10103

15

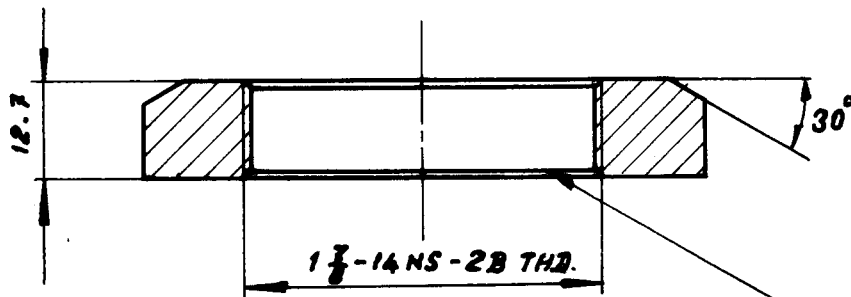
16 REV 17

01

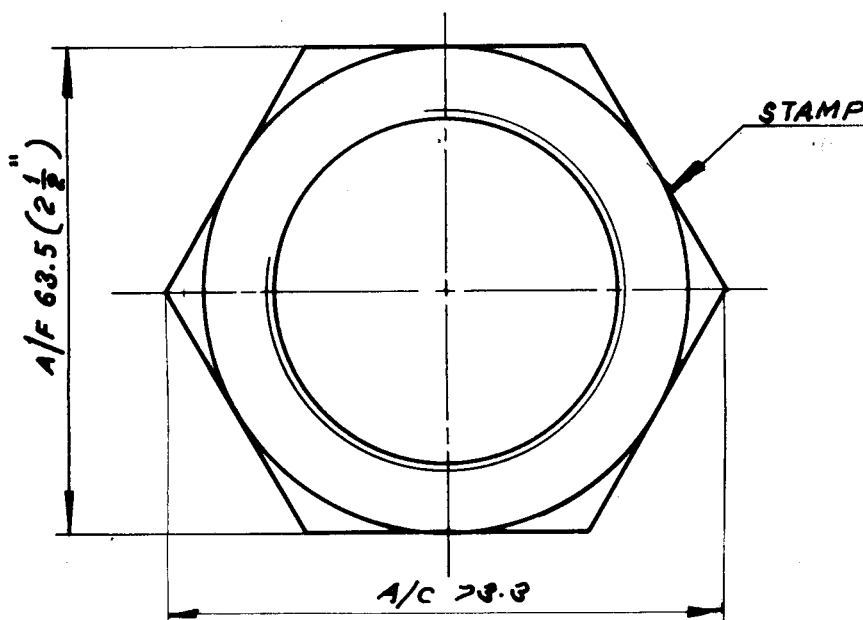
CAUTION THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

REV 01	DATE 12/2/86	ALTERED	CHECKED
FINAL MATL. ASTM B584		REV 02	
ALLOY B75 WAS ASTM B371		DATE	
ALLOY B94. DESCRIPTION.		ALTERED	
MATL. CODE & GROSS WT. CHANGED		CHECKED	

3.2



45° CHAMFER FIRST THREAD



NOTE:-

1. BREAK SHARP CORNERS & REMOVE BURRS.

APPROVED ON
ROLL OVER 23

NO. OFF	DESCRIPTION	MATL. CODE	FINAL MATL.	HEAT TREATMENT	SCRA SORT	NET WT. (KG.)	GROSS WT. (KG.)	DWG. NO.	ITEM NO.
	Φ 85 x 20	16013426	ASTM B584 ALLOY B75 AMENDED CERTIFY		60	0.22	0.97		102
Bharat Heavy Electricals Limited Logo		BHARAT HEAVY ELECTRICALS LIMITED BOILER PLANT UNIT, TIRUCHIRAPALLI-620014							
DEPT	CODE	SCALE	1:1	WEIGHT (kg)	DRESSER DRG. NO. V-6430-P/CD715 PART NO. 0087228734 NO. 2643				
TITLE				DRAWN		NAME		DATE	
LOCK NUT				CHECKED		SIGN		13-5-80	
APPROVED				DATE		13-5-80		13-5-80	
DIMENSIONS TO BE CONTROLLED WITHIN LIMITS AS SHOWN. MACHINING TOLERANCE ± 0.25 mm. UNLESS OTHERWISE SHOWN NON-MACHINING TOLERANCE ±				CARD CODE	4-V-7016-10112		15		16 REV 17

3.2



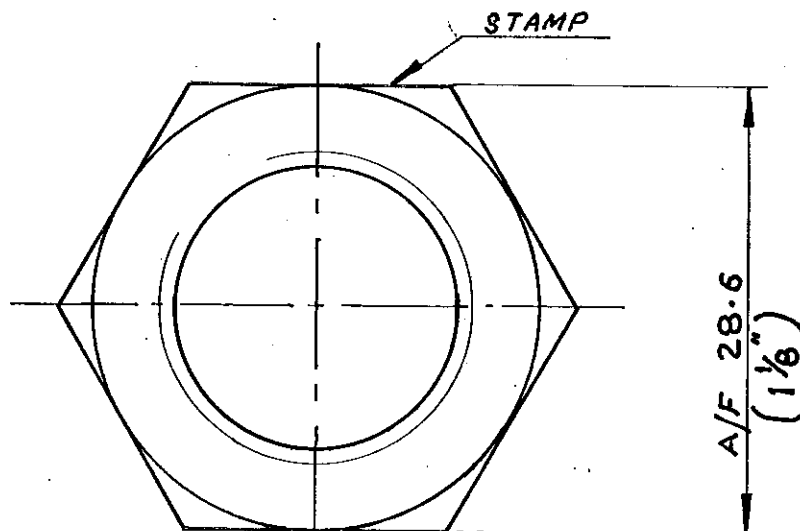
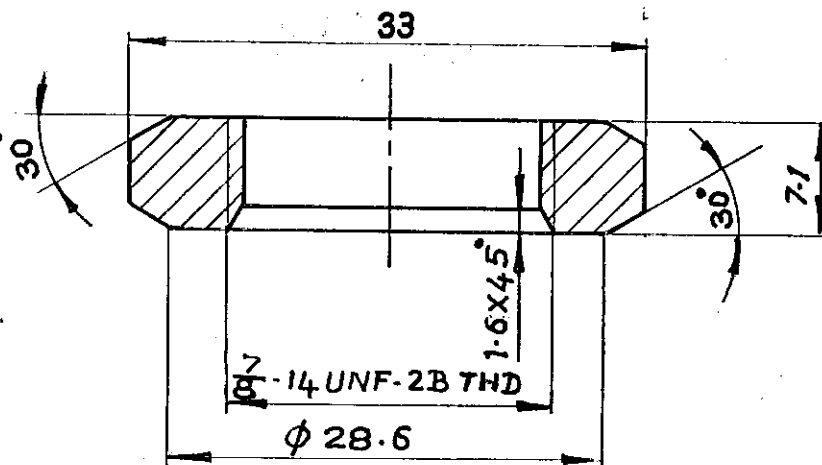
1. 45° CHAMFER FIRST THREAD.
2. BREAK SHARP CORNERS AND REMOVE BURRS.

SIZE A-4

REV 01	DATE 21-10-81	ALTERED V. PERUMAL	REV 02	DATE 12/2/86	ALTERED J. S. S.
		CHECKED <i>[Signature]</i>			CHECKED <i>[Signature]</i>
1. MATL. ASTM B16 WAS BS970220 - M07			FINAL MATL. ASTM B 584 ALLOY 825 WAS ASTM B16		
2. RAW MATL SIZE, MATL. CODE, SCRAP DESCRIPTION, MATL. CODE & SORT, & GROSS WT. ARE CHANGED			GROSS WT. CHANGED.		

3.2

REV 03	DATE 20-6-97	ALTD: <i>[Signature]</i>	CHD: <i>[Signature]</i>
NOTES UPDATED. DCN. NO. SV: 0436			



NOTES

1. BREAK ALL SHARP CORNERS

00523 3226

φ 35 x 13	16024019	ASTM B 584 ALLOY 825 CERTIFY	—	60	0.02	0.11	—	102
NO OFF	DESCRIPTION	MATERIAL CODE	FINAL-MATL	HEAT TREATMENT	SCRAP SORT	NET WT kg	GROSS WT kg	ITEM NO



05-249/A

BHARAT HEAVY ELECTRICALS LIMITED

BOILER PLANT UNIT, TIRUCHIRAPALLI-620014

DEPT VL	CODE 340	SCALE N.T.S	WEIGHT (kg)	DR. DRG NO D957A14 / EC883
TITLE				PART NO. D957A14A / SL NO 654
LOCK NUT				DRAWN V.A.
				CHECKED VR.
				APPROVED JA

DIMENSIONS TO BE CONTROLLED WITHIN LIMITS AS SHOWN. MACHINING TOLERANCE ± 0.25 mm. UNLESS OTHERWISE SHOWN NON-MACHINING TOLERANCE $\pm$

CARD CODE

4 DRAWING NO.

4-V-7800-10065

15 16 REV 17

03

FOR TOLERANCES OF UNTO LERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP/QP.

CAUTION

THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

CAUTION THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

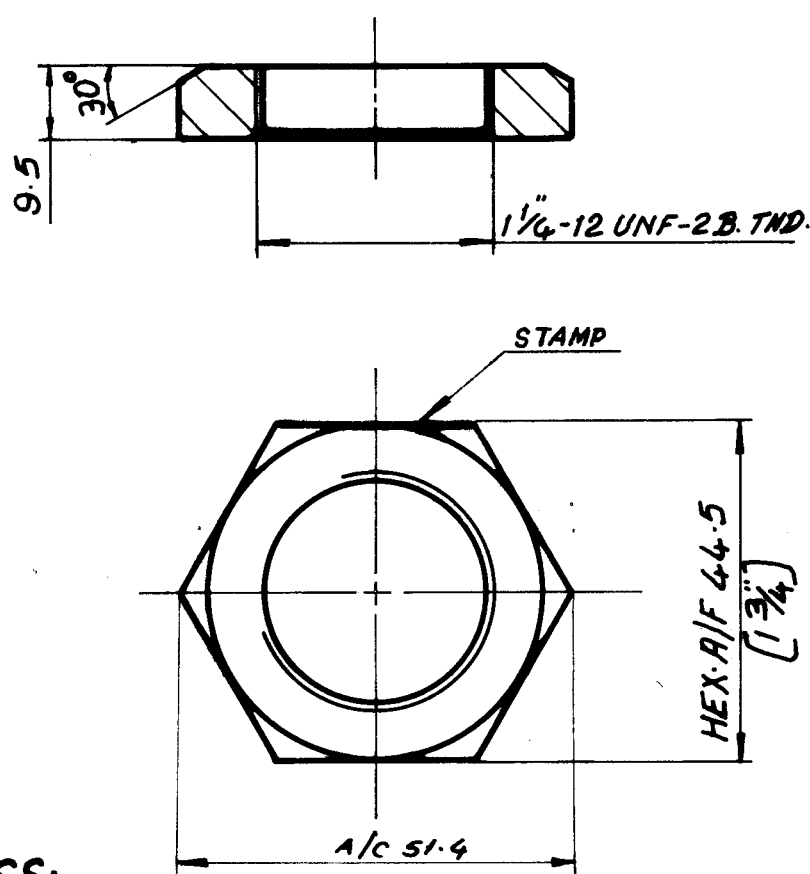
TP-DG-4-V-7802-10194
CORPORATE DRG ID

FIRST ANGLE PROJECTION (ALL DIMENSIONS IN MILLIMETRES)

REV	DATE	ALTERED
02		CHECKED
9/2/86		40

FINAL MATL. ASTM B 584
ALLOY B75 WAS ASTM B16
DESCRIPTION, MATL. CODE &
GROSS WT. CHANGED

3.2
▽



NOTES:-

1. SHARP CORNERS TO BE REMOVED.
2. 45° CHAMFER FIRST THD.

MICROFILMED ON

ROLL 1000000000 FRAME 1000

NO OFF	DESCRIPTION	MATL. CODE	FINAL MATL	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
	φ 56 X 16	1603425	ASTM B 584 ALLOY B75 AMENDED CERTIFY		60	0.08	0.34		102



05-249/A

BHARAT HEAVY ELECTRICALS LIMITED
BOILER PLANT UNIT, TIRUCHIRAPALLI-620014

05-249/A								
DEPT	CODE		SCALE 1:1	WEIGHT (kg.)	DR. DRG No.: V-5891R/EN 836 PART No.: 0079531/SL No.: 2638			
TITLE LOCK NUT					DRAWN	NAME N. R.	SIGN 	DATE 28-5-80
					CHECKED	V. P.		24-7-80
					APPROVED	S. R.		

DIMENSIONS TO BE CONTROLLED WITHIN LIMITS AS SHOWN. MACHINING TOLERANCE ± 0.25 mm. UNLESS OTHERWISE SHOWN NON-MACHINING TOLERANCE ±

CARD CODE

4 DRAWING NO.

4-V-7802-10194 01

16 REV 17

18/UNA-3X-20

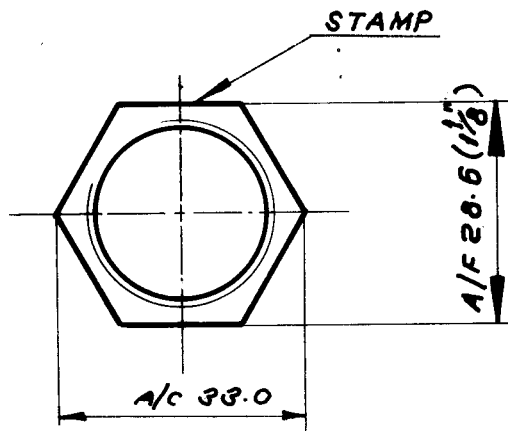
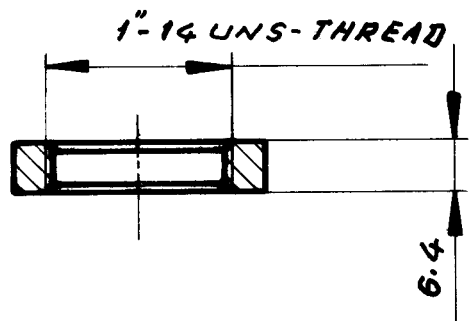
QMAC CODE 980705450000

SIZE A-4

CAUTION THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

DATE 21-10-81	CHECKED [Signature]	REV 02	DATE 9/2/86	ALTERED [Signature]	CHECKED [Signature]
1. MATL. ASTM B16 HAS B590220 -M07		FINAL MATL. ASTM B584 ALLOY 875 WAS ASTM B16 DESCRIPTION, MATL. CODE & GROSS WT. ARE CHANGED			
2. RAW MATL SIZE, MATL CODE, & GROSS WT. ARE CHANGED		GROSS WT. CHANGED			
APPL. DR. TYPE NOS.					

3.2



NOTES:-

1. 45° CHAMFER FIRST THREAD.
2. SHARP CORNERS TO BE REMOVED.

REWORKED ON 00523 250

	φ 35 x 13	16 024 019	ASTM B584 ALLOY 875 AMENDED CERTIFY		60	0.01	D-11		102
NO OFF	DESCRIPTION	MATL. CODE	FINAL MATL.	HEAT TREATMENT	SCRA SORT	NET WT (KG)	GROSS WT (KG)	DWG. NO.	ITEM NO.



05-249/A

BHARAT HEAVY ELECTRICALS LIMITED

BOILER PLANT UNIT, TIRUCHIRAPALLI-620014

DEPT	CODE	SCALE 1:1	WEIGHT (kg)	DR. DRG NO: D-87/CE 620	PART NO: 0076110/SL NO: 2000
TITLE LOCK NUT				DRAWN	NAME M.T. [Signature]
				CHECKED	SIGN [Signature]
				APPROVED	DATE 10/4/80

DIMENSIONS TO BE CONTROLLED WITHIN LIMITS AS SHOWN. MACHINING TOLERANCE ± 0.25 mm. UNLESS OTHERWISE SHOWN NON-MACHINING TOLERANCE ±

CARD CODE

4 DRAWING NO.

4-V-7805-10135

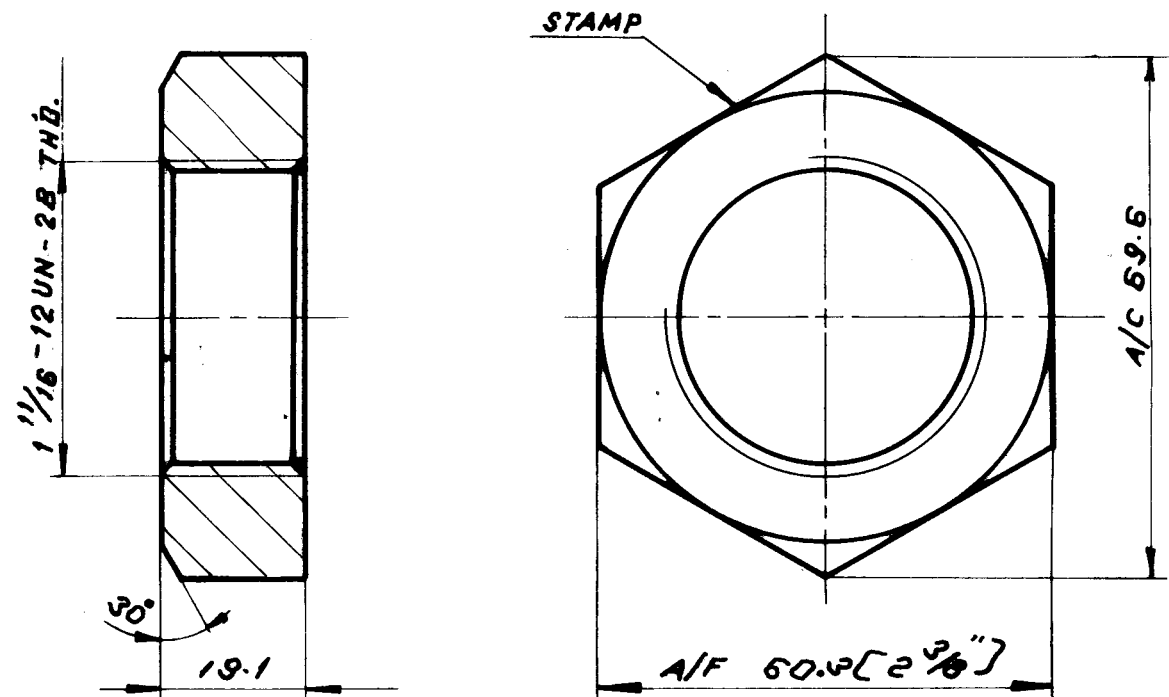
15 16 REV 17

02

CAUTION THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

REV 01	DATE 7/11/81	CHECKED V. Perumal	REV 02	DATE 9/2/86	CHECKED k2
RAW MATL. CODE 16005252 WAS 16005287			FINAL MATL. ASTM B 584 ALLOY B 75 HAS ASTM B 16 DESCRIPTION, MATL. CODE & GROSS WT. CHANGED.		

3.2



NOTES:

1. 45° CHAMFER FIRST THREAD AT BOTH ENDS.
2. SHARP CORNERS TO BE REMOVED

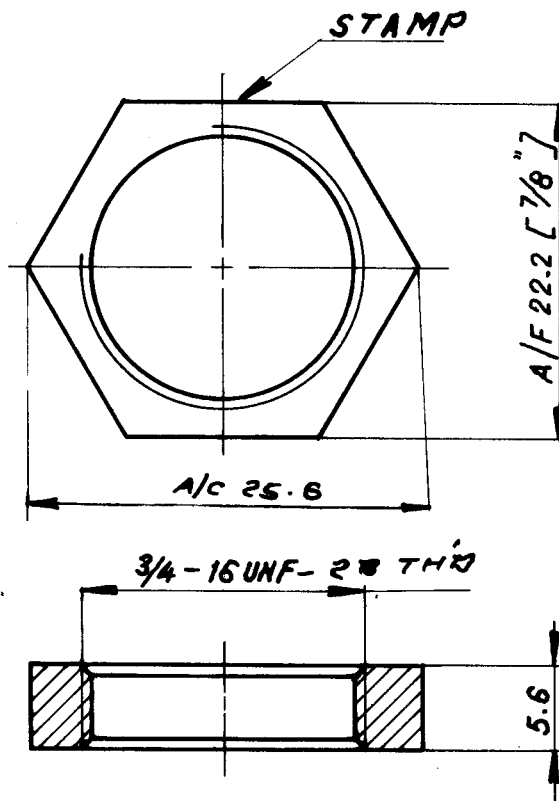
MICROFILMED ON
ROLL 00523 FRAME 135

APPROL. DR TYPE NOS.	φ 85 x 25	16013426	ASTM B 584 ALLOY B 75 AMENDED CERTIFY	60	0.30	1.21	102
NO OFF	DESCRIPTION	MATL. CODE	FINAL MATL.	HEAT TREATMENT	SCRAP NET SORT	NET WT (KG)	ITEM NO.
Bharat Heavy Electricals Ltd., BOILER PLANT UNIT TIRUCHIRAPALLI-620 014				DRN	NAME K. D. LEON	SIGN	DATE 7/7/81
				CHD	V. PERUMAL	V. Perumal	
				APPD	S. RASHID	S. Rashid	
DEPT.	GRADE OF UNTOL. DIM	SCALE	WEIGHT (kg)	DR. DRG NO: VD 889/4185			
CODE	C/M/F	1:1		PART NO: VD 889			
				SL. NO: 2648			
TITLE				CARD CODE	DRAWING NO.		REV
LOCK NUT				U 01	4-V-7827-10265 02		

REV	DATE	ALTERED
01	02/3/82	CHECKED <i>kw</i>
REV	DATE	ALTERED
02		CHECKED

FINAL MATL. ASTM B 584 ALLOY
B75 WAS ASTM B 16.
DESCRIPTION, MATL. CODES
GROSS WT. CHANGED

3.2



NOTES:-

1. SHARP CORNERS TO BE REMOVED.
2. 45° CHAMFER ON BOTH SIDES.
3. UNSPECIFIED ANGLE TOLERANCES $\pm 1/2^\circ$.
4. UNSPECIFIED MACHINING TOLERANCES ± 0.25 MM.

MICROFILMED ON

ROLL 05923 FRAME 168

$\phi 35 \times 11$	16024019	ASTM B584 ALLOY B75 AMENDED CERTIFY	50	0.01	0.09	102		
No. OFF	DESCRIPTION	MATL. CODE	FINAL MATL.	HEAT TREATMENT	SCRAP NET WT. (kg)	GROSS WT. (kg)	DRG. No.	ITEM No.
 Bharat Heavy Electricals Ltd., BOILER PLANT UNIT TIRUCHIRAPALLI-620 014				DRN	NAME	AGN.	DATE	
					M.R.C	<i>MDP</i>	27-06-82	
				CHD	V.P	V. Peramall	27-6-82	
				APPD	S.R	<i>SV</i>	27/6/82	
DEPT. VL	GRADE OF UNTOL. DIM ϕ /M/F	SCALE 2:1	WEIGHT (kg)		DR. DRG. No. D-87/CE620			
CODE 340					PART No. 008995 / SL. No. 238			
TITLE				CARD CODE	DRAWING NO.			
LOCK NUT				U 01	4-V-7834-10289-01			