

FIRST ANGLE PROJECTION

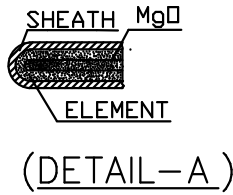
(ALL DIMENSIONS ARE IN mm)

FORM DG38(B)

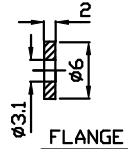
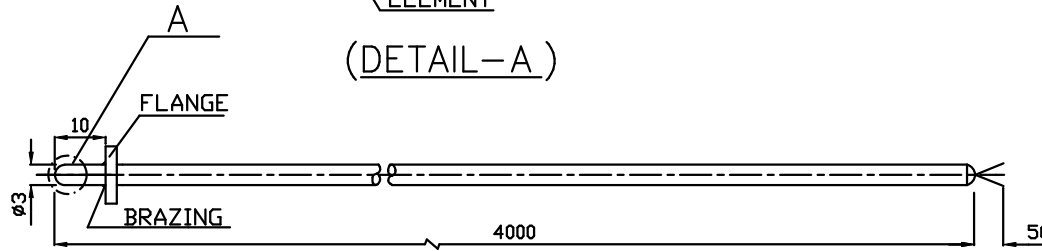
DRAWING NO. 3 13371 18010

TECHNICAL REQUIREMENTS :-

1. THERMOCOUPLE ELEMENT NICr-NI (ie. CHROMEL-ALUMEL)
- 2.(a) CALIBRATION:- IEC-584 PART-1/IS-2054
- (b) TOLERANCE CLASS:- CLASS-1 (IEC-584 PART2)
- ~~3. THERMOCOUPLE WIRE DIA 0.64mm~~
4. NUMBER OF THERMOCOUPLE ELEMENT PAIR 1
5. O.D OF SHEATH 3mm.
6. MATERIAL OF SHEATH INCONEL (0.5 M.M THICK)
7. INSULATION MgO
8. THERMOCOUPLE HOT JUNCTIONS UNGROUNDED ie MEASURING JUNCTION INSULATED FROM SHEATH.
9. INSULATION RESISTANCE BETWEEN ELEMENT WIRE AND SHEATH. >100M OHM AT ROOM TEMP.(20°C) > 10 M OHM AT 600°C AT 500 V.D.C.
10. MINIMUM BENDING RADIUS 6.4 mm.
11. LEAK TIGHTNESS OF MEASURING JUNCTION SHOULD BE TESTED AT 40 Kg/Cm²
12. MATERIAL OF FLANGE X 10 CR13K OR EQUIVALENT
13. THE FLANGE SHALL BE PROPERLY BRAZED WITH THE THERMOCOUPLE SHEATH TO GIVE RIGID JOINT. THE FLANGE WITH SEATH UP TO APPROX 120 mm WILL BE FIXED INSIDE THE METAL FOR METAL TEMP. MEASUREMENT AND THE SHEATH WILL PASS THROUGH STEAM AT 550°C AND 40 Kg/Cm² PRESSURE.



(DETAIL-A)



(SURFACE FINISH ∇ ALL OVER)

SUPERSEDES OLD DRAWING UNDER THE SAME NUMBER.

		001	T.S.E. SENSOR	3 13371 18010	W97313371012		0	50
VAR.00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	MATERIAL CODE	UNIT	UNIT WEIGHT	
					VAR MATERIAL SPECN	C	S	

GMS NO./GR SP NO CBDM-1 13371 18000				STATUS OF DRG
ADDRESS DEPT.	NAME	SIGN	DATE	
-	-	-	-	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT
STEAM TURBINE

GRADE OF UNTOL DIM :-
M/CG-C/M/F AA0230208
WELDING-A/B/C/D AA0621104
GAS CUTTING-T3AA0621101

REV	DATE	ALTERED	J.S.B.	REV	DATE	ALTERED	J.S.B.
03	13/05/05	CHECKED	S.K.S.	02	20/6/00	CHECKED	S.K.S.

TECH. REQ. NO. 3 DELETED AND T.R. 5 CHANGE.
CHANGE NO. STE-05-F0095

CHANGE.ND.
STE-00-239
DEPOSITED IN AWC SERVER

	BHARAT HEAVY ELECTRICALS LTD.		DRN	J.S.BHANDARI	-Sd-	10.1.97	NO. OF VAR.
	HARDWAR		CHD	S.K.SHARMA	-Sd-	11.1.97	
			APD	A.ALI	-Sd-	25.4.97	

DEPT STE		SCALE	WEIGHT (kg)	REF TO ASSY DRG.	TEM NO	NO OF ITEMS
CODE 4011		N.T.S.	0.50	1 13371 18000	01	01

TITLE	CARD CODE	DRAWING NO.	REV.
T.S.E. SENSOR		3 13371 18010	
SHEET NO. 01		NO.OF SHEETS 01	

SIZE A3

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INVENTORY NO. SIGN & DATE REF. DRG. NO.