

SPECIFICATION:-

▲ 1. VEHICLE OPERATING SYSTEM VOLTAGE: 24V DC WITH -Ve GROUND 2. WARRANTY TERMS:- 3 YEARS/3,00,000 Kms. WHICHEVER IS EARLIER.

3. MECHANICAL:-

▲ 3.1 SENSOR HEAD OF FUEL SENSOR ARE SUITED FOR MOUNTING OF FUEL TANK WITH Ø50.5mm HOLE (AS PER VIEW 'C')

2 A 3.2 FITMENT OF FUEL SENDER :-BAYONET TYPE WITH 'O' RING

USE PROPER TOOL FOR FITMENT OF FUEL SENDER IN FUEL TANK

INSTALLATION TORQUE :-VERTICAL FORCE ATLEAST 400N. MAINTAIN THE VERTICAL PRESS & ROTATE THE GAUGE 30° CLOCKWISE. DO NOT USE MORE THAN 45Nm. THERE SHOULD BE NO LEAKAGE OF FUEL AFTER THE UNIT IS TIGHTENED

▲ 3.3 SUCTION/RETURN FITTING TORQUE: 20±5Nm

2 3.4 FILTER PULL OUT FORCE AFTER ASSEMBLY SHOULD NOT BE LESS THAN 8.0 kg-f

7_1 5 2 3.5 SEALING OF SENSOR HEAD : IP69K

4. ELECTRICAL:-

4.1 FOR ELECTRICAL CONNECTION PLEASE REFER TABLE 'B'

▲ 4.2 OPERATING VOLTAGE : 9-32 VDC WITH 80V OVER VOLTAGE PROTECTION

▲ 4.3 SUPPLY CURRENT : 15 mA @ 12VDC : 23 mA @ 24VDC

◆ 4.4 OUTPUT SIGNAL : 0.5 VDC (EMPTY) TO 5VDC (FULL)

4.5 RESOLUTION

2 4.6 ACCURACY : ±2.0% @ 20°C (+68°F) IN DIESEL WITH DIELECTRIC CONSTANT VALUE OF 2.1 TO 2.3

▲ 4.7 SLEEP CURRENT : 10mA MAX.

5. ENVIRONMENTAL:-

▲ 5.1 OPERATING TEMPERATURE RANGE :- -40 TO +85 DEG. CELCIUS.

▲ 5.2 STORAGE TEMP. RANGE :- -40 TO +90 DEG. CELCIUS

● 5.3 ALL STEEL PARTS ARE TO BE ZINC PLATED & TRIVALENT YELLOW PASSIVATED

AS PER FeZn8 Cr III Y AS PER TS:10812

NOTES:-

1. O RING WILL BE PART OF SUPPLY.

① 2. TANK UNIT TO BE PASSED UNDER TML AGREED DVP

① 3. FUEL SENDER TO BE CALIBRATED AT ALL FUEL INDICATION LEVEL

(2) A 4. THE FUEL SENDER IS SELF CALIBRATING, WHICH MEANS ITS ACCURACY STAYS WITHIN ±10% EVEN IF

USED IN A DIFFERENT FUEL, AS LONG AS DIELECTRIC CONSTANT OF FUEL IS WITHIN 1.75 TO 3.0. (2) 1 5. THE PCBA SHOULD HAVE CONFORMAL COATING

 \bigcirc 0 6. GUIDING STRIPS (02 NOS.) TO BE USED IN BOTH THE PROBES ASSEMBLY

7. DIMENSIONS WITHOUT TOLERANCE ARE FOR REFERENCE ONLY.

(6) ▲ 8. LOCTITE SI 5910 SHOULD BE USED FOR SENSOR HEAD SEALING

© CALIBRATION TABLE: `A'

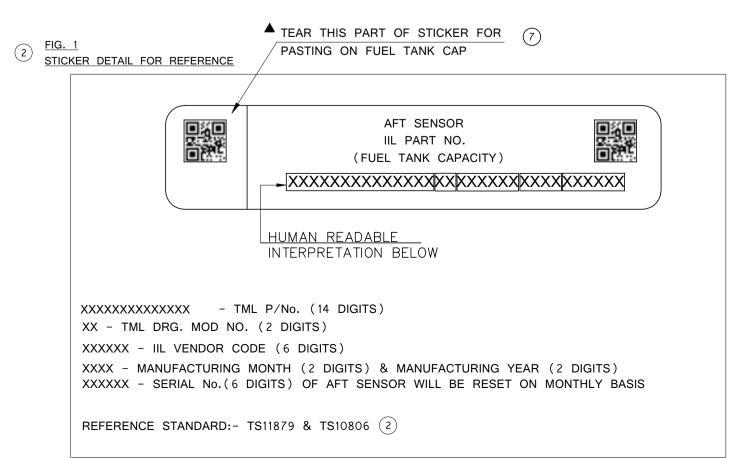
S.NO.	FHEL 15/51	HEIGHT FROM	OUTPUT VOLTAGE (V)	FUEL CAPACITY (L)	(±1LTR) 1
3.NO.	FUEL LEVEL	FUEL TANK BOTTOM (mm)	(±2% OF FULL SPAN)	300 LTR FUEL TANK P/N. 5088 4710 0104	280 LTR FUEL TANK P/N. 5119 4710 0105 4
1	FULL	625	5.00	300	293
2	3/4	476	3.85	230.7	220
3	HALF	334	2.75	151.6	144
4	1/4	190	1.64	72.26	69
5	EMPTY (HIGH)	117	1.07	33.1	31
6	EMPTY (LOW)	43	0.5	5.8	5.6

▲ TABLE: `B'

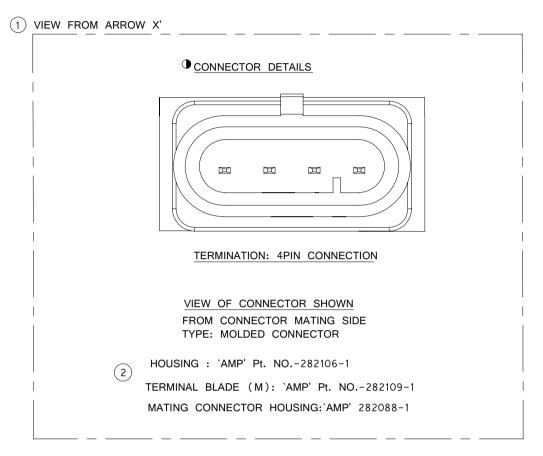
	CONNE	CONNECTOR CONFIGURATION		
1	PIN	TYPE		
	1	V+ (SUPPLY)		
	2	V- (GROUND)		
	3	SIGNAL OUT (0.5-5V)		
	4			

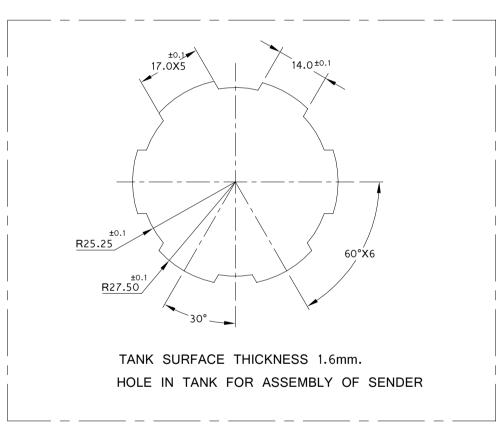
SUB ASSLY. SERVICABLE PART LIST

S.NO.	PRODUCT	QTY.	IIL PART No.	CUST. P/No.
1	O RING	01	ORN 40.002 2	5120 5430 78 01N
2	FILTER	01	PFC 40.001	5039 5430 36 01N
3	ENGINE SUCTION FITTING ASSLY.	01	SFA 40.001	5039 5430 68 01N
4	ENGINE RETURN FITTING ASSLY.	01	RFA 40.001	5039 5430 68 02N

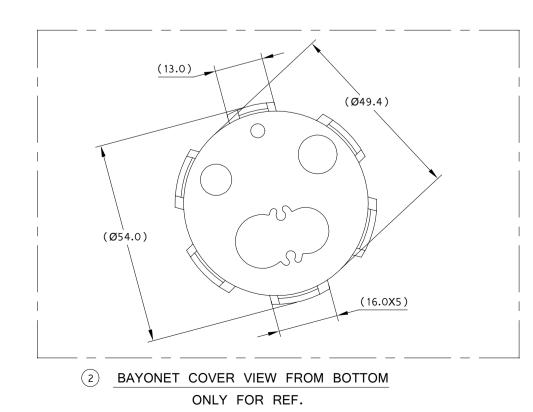


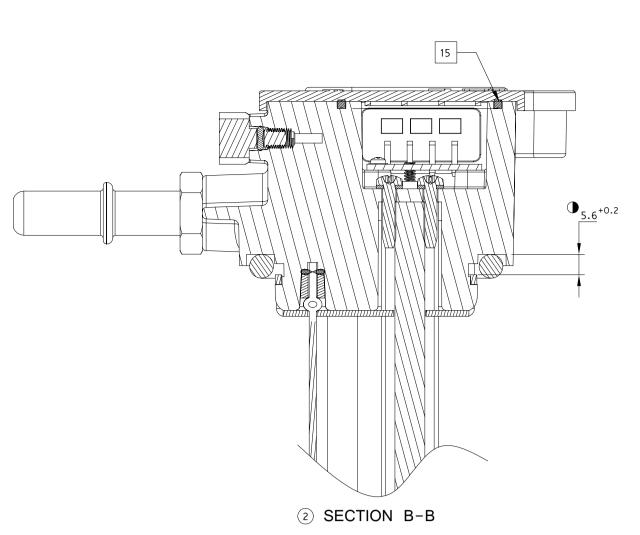
S.NO.	PART NAME	QTY.	MATERIAL	
1	SENSOR HEAD	01	ALUMINIUM ALLOY ADC-12 3 2	
2	BAYONET COVER	01	STAINLESS STEEL AISI TYPE 304 2	
3	O-RING ID 55.0 X THICK. 6.4mm. (2)	01	NITRILE HARDNESS SHORE 'A' 70 ±5 COLOUR-BLACK	
4	CAPACITIVE TUBE (MAIN EXTRUSION)	01	ALUMINIUM 6060/6005 2 5	
5	SUCTION TUBE Ø10.0	01	COPPER COATED STEEL TUBE	
6	RETURN TUBE Ø8.0	01	COPPER COATED STEEL TUBE	
7	CONNECTOR	01	PBT, GF 30%	
8	COVER	01	PBT, GF 30% 2	
9	ENGINE SUCTION FITTING	01	FREE CUTTING STEEL HEX ROD	
10	ENGINE RETURN FITTING	01		
11	AUXILIARY SUCTION TUBE Ø6.3	01	COPPER COATED STEEL TUBE (2)	
12	PLUG SUCTION/RETURN M8X1.0	02	FREE CUTTING BRASS	
13	FILTER	01	NYLON - 6	
14	CONNECTOR SEALING RING	01	NBR+PVC (70:30), COLOUR-BLACK	
15	SENSOR HEAD SEALING RING	01	NBR COLOUR-BLACK	

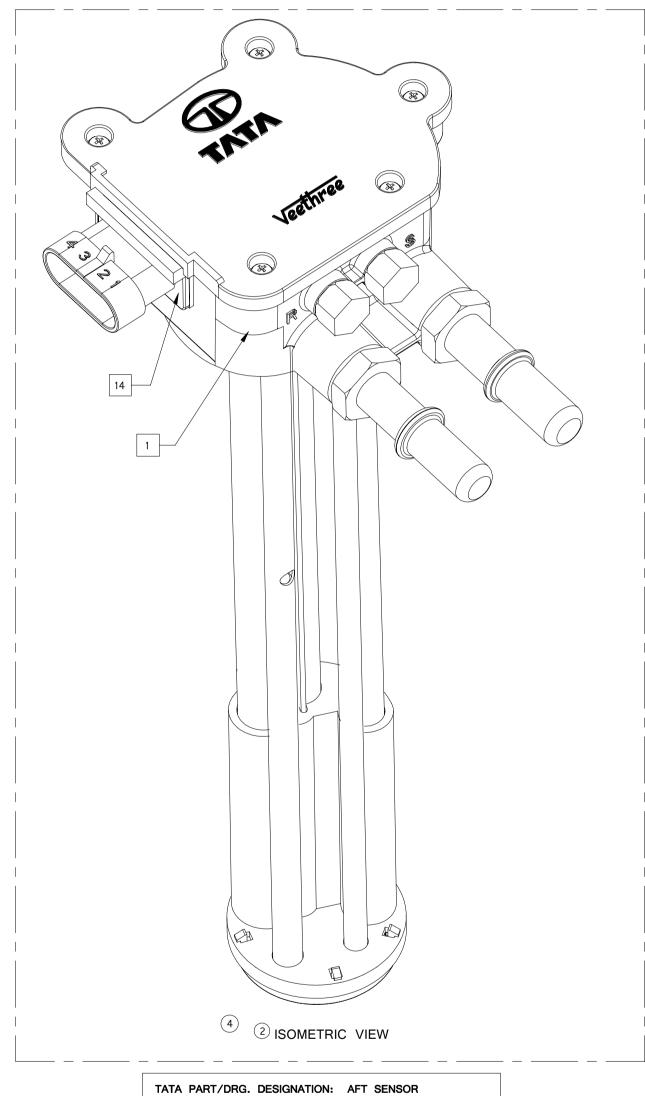


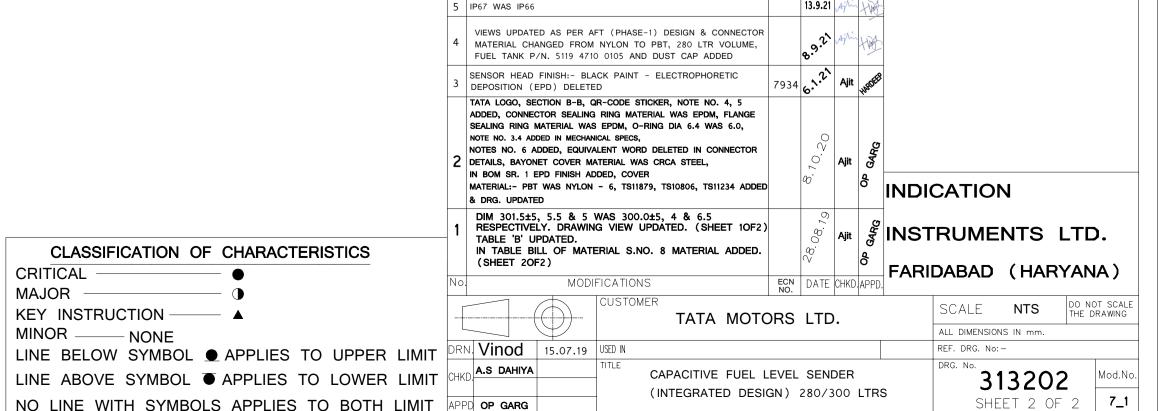


▲ FUEL TANK HOLE VIEW `C'









NO LINE WITH SYMBOLS APPLIES TO BOTH LIMIT APPD OP GARG

1 SEALING OF SENSOR HEAD : IP69K WAS IP67

7 QR CODE STICKER DETAIL UPDATED

6 NOTE NO. 8 OF LOCTITE SI 5910 ADDED

TATA PART/DRG. NUMBER : 5087 5430 4901 MOD_d

DRN-885 17.3.22

25.2.22

27.1.22