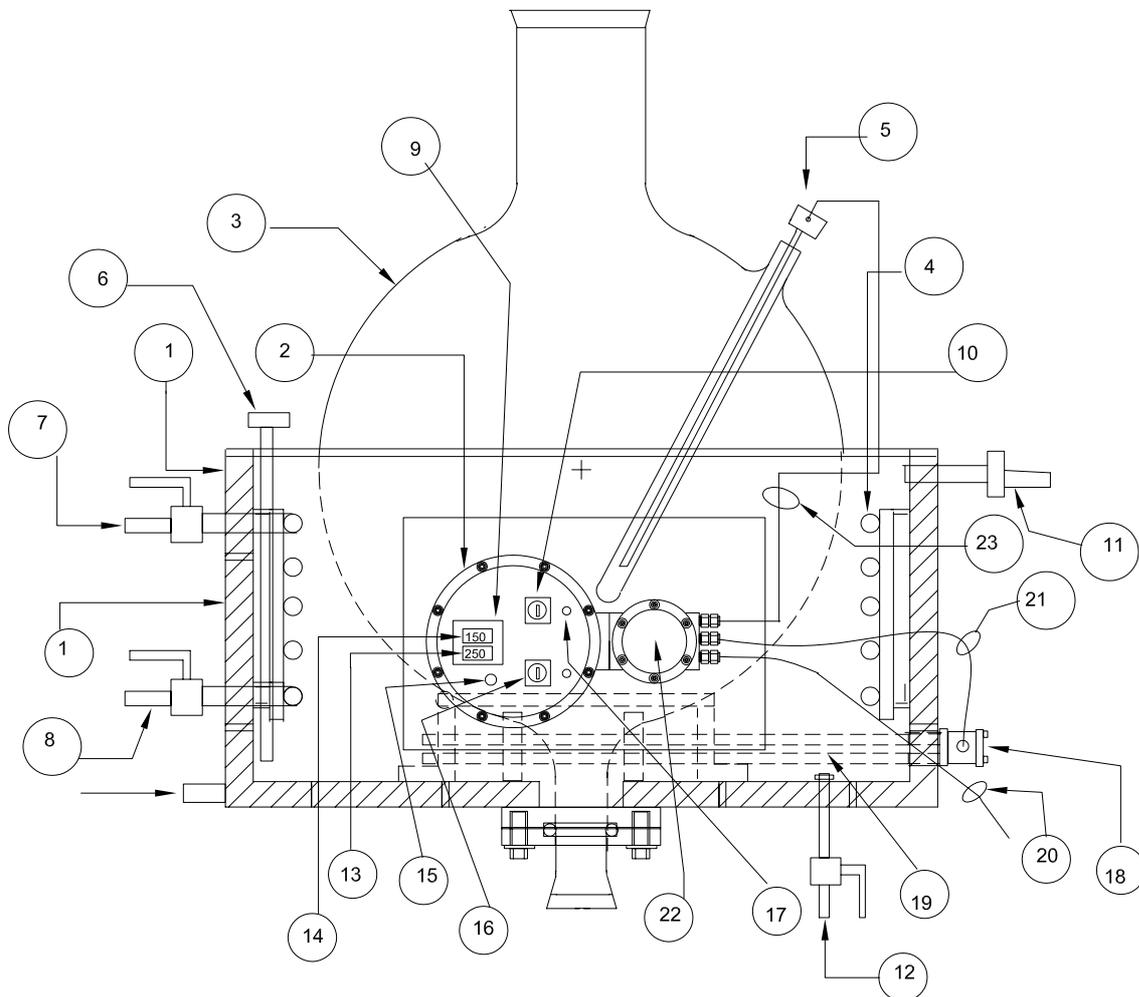


FLAME PROOF - WEATHER
PROOF
OIL BATH

OPERATING INSTRUCTION

DETAILS OF OIL BATH

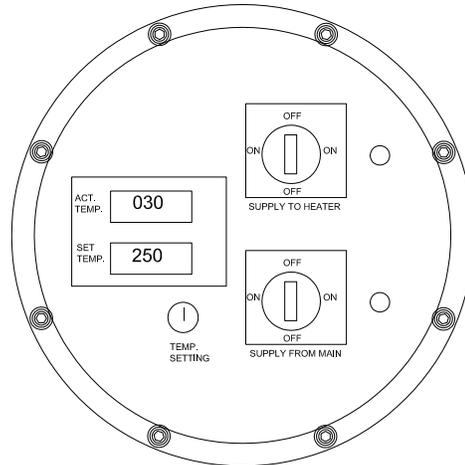
1	BODY OF OIL BATH
2	FLP SWITCH ENCLOSURE FITTED WITH CONTROLS
3	SPHERICAL GLASS FLASK.
4	COOLING COIL
5	PTR 100 OHMS SENSOR
6	BATH THERMOWELL
7	OUT LET OF COOLING COIL
8	INLET OF COOLING COIL
9	WINDOW OF TEMPERATURE DISPLAY
10	ON / OFF ROTARY SWITCH FOR HEATERS
11	OIL OUT LET WITH BOLL VALVE
12	BOTTOM DRAIN VALVE
13	DISPLAY OF SET TEMPERATURE.
14	DISPLAY OF ACTUAL TEMPERATURE.
15	ROTATING TEMPERATURE SETTING KNOB
16	ON / OFF ROTARY SWITCH FOR INCOMING SUPPLY.
17	INDICATING LAMP
18	FLP HEATER TERMINAL ENCLOSURE.
19	S. S. TUBE IMMERSION HEATER
20	FOUR / THREE CORE CABLE FROM MAIN SWITCH
21	FOUR / THREE CORE CABLE FROM FLP SWITCH TO HEATER.
22	FLP TERMINAL ENCLOSURE.
23	THREE CORE FLEXIBLE CABLE FOR SENSOR.



GENERAL INFORMATION

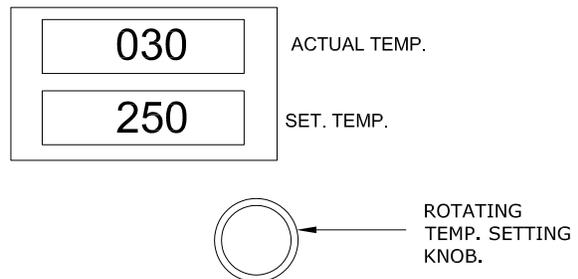
FLAME PROOF - WEATHER PROOF OIL BATH USED TO HEAT THE MATERIAL INSIDE OF GLASS FLASK BY INDIRECT HEATING. THERMIC HEATING OIL USED AS HEATING MEDIA. IMMERSION OIL HEATER MERGED IN HEATING OIL. BY THIS TYPE OF HEATING IT PRODUCED EVEN TEMPERATURE THROUGHTOUT PORTION . FLAME PROOF CONTROL PANEL FITTED ON BODY OF OIL BATH.

HOW TO USED OIL BATH.



FIRST INSTALL THE OIL BATH ON RIGID PLATFORM OR ON TUBULAR STRUCTURE. THEN KEEP GLASS FLASK ON BOTTOM SUPPORT PROVIDED IN OIL BATH. AFTER THAT MAKE NECESSARY FITTING OF OIL SEAL WITH BOTTOM FLANGES. BE SURE THAT THERE IS NO LEAKAGE FROM OIL SEAL FITTING. THEN POUR THERMIC HEATING OIL IN THE BATH UP TO LEVEL OF MORE THAN 50 PERCENT OF GLASS FLASK HEIGHT. CHECK THE OIL LEAKAGE BEFORE SWITCH ON. SWITCH ON MAIN SUPPLY BY ROTARY SWITCH.(16). IMMEDIATELY ON DIGITAL TEMPERATURE WINDOW DISPLAY SOME FIGURES IN SET TEMP. DISPLAY AND ACTUAL TEMPERATURE DISPLAY INDICATE AMBIENT TEMP. THEN SET THE REQUIRED TEMP. BY ROTATING KNOB OF TEMP. SETTING. AFTER SETTING OF REQUIRED TEMPERATURE SWITCH ON SUPPLY TO HEATER BY ROTARY SWITCH. AFTER FEW MINUTES OIL TEMPERATURE START TO RISE AND THIS INDICATE ON ACTUAL TEMP. DISPLAY.

HOW TO SET REQUIRED TEMPERATURE.



TO SET THE REQUIRED TEMPERATURE, ROTATE TEMP. SETTING KNOB BY CLOCK WISE. AFTER ROTATING KNOB SET TEMPERATURE DISPLAY START TO RISE. STOP THE ROTATING KNOB AT YOUR REQUIRED TEMPERATURE DISPLAY.

OIL IMMERSION HEATER

OIL IMMERSION HEATER MADE FROM S. S. TUBE , HEATER IS CALCULATE WITH LOW SURFACE LOAD ON TUBE. DUE THAT IT LAST IN LONGER LIFE. S. S. TUBE HEATER BRAZED WITH BRASS TERMINAL BLOCK. HEATER TERMINALS TERMINATE IN FLAME PROOF TERMINAL ENCLOSURE.

TEMPERATURE SENSOR

PTR - 100 OHS SENSOR PROVIDED WITH DIGITAL TEMP. CONTROLLER.
SENSOR MUST BE MERGED WITH HEATING OIL OR THERMOMETER POCKET. POCKET MUST BE FILLED WITH PARAFINE OIL ETC.
HANDLE WITH CARE, DO NOT DROP ON ANY HARD SURFACE.

DO THE NECESSARY MAINTENANCE

- 1) EVERY 6 MONTH CLEAN THE SURFACE OF TUBE HEATER.
REMOVE SCALING OF OIL COATED OVER THE TUBE.
- 2) EVERY MONTH CHECK OIL SEAL OF BOTTOM FLANGE
- 3) APPLY ANTICOROSION PAINT ON M. S. OUTER BODY WITHIN 6 MONTH.

NECESSARY PRECAUTIONS

- 1) DO NOT RUN THE HEATER WITHOUT THERMIC HEATING OIL.
- 2) IMMERSION HEATER MUST BE MERGE IN HEATING OIL.
- 3) INCASE NECESSARY TO OPEN FLP SWITCH ENCLOSURE COVER, ISOLATE SUPPLY BEFORE OPEING.
- 4) DO NOT HEAT THE GLASS FLASK IN EMPTY CONDITION.
- 5) DO NOT THE CIRCULATE COLD WATER THROUGH COOLING COIL, WHEN THE OIL TEMP. IS MORE THAN 85°C.
- 6) DO NOT ROTATE TEMP. SETTING KNOB FORCELY, ROTATE IT GENTLY.
- 7) DO NOT OPEN THE COVER FLP TERMINAL ENCLOSURE WHEN THE HEATER IS ON CONDITION.

M/s N. K. JOSHI & CO.

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