

SILT DENSITY INDEX- KIT SDI-KIT



FEATURES:-

1. Integral SS needle valve for Pressure control.
2. Quick release coupling making multipoint sampling convenient.
3. Automatic air release valve transparent body.
4. 500 ml beaker for sampling.

OPERATING PROCEDURE:-

1. Connect inlet of SDI kit between micron filter and high pressure pump.
2. Run the plant at service flow using raw water pump only.
3. Close the needle valve of the SDI kit completely.
4. Using reject valve of the membrane set the pressure to 2kg/cm².
5. Put filter paper into SDI kit.
6. Open the needle valve of the SDI kit.
7. Fine adjust the reject valve of the membrane to maintain 2kg/cm² pressure in the SDI kit pressure gauge.
8. Place the 500ml beaker under the SDI kit outlet.
9. Note time T₀ sec for filling 500 ml empty beaker.
10. Let the water pass through the same filter paper for next 15 minute.
11. Now place the empty beaker under the SDI kit again and note time T₁₅ sec for filling 500 ml empty beaker.
12. Calculate SDI (Silt Density Index) using the following formula:

$$SDI = \frac{1 - (T_0 / T_{15})}{15} \times 100$$

INSTRUCTION FOR FILTER PAPER:-

Handle filter paper with care. Hold it only by the edges as any particle or wrinkle can result in erroneous reading

CONNECTION:-

Inlet :- 1/4" Female threaded needle valve
1/4" Female pressure gauge (0 – 4.2 kg/cm²)

PRESSURE :-

Test Pressure: - 3.0 Kg/cm²

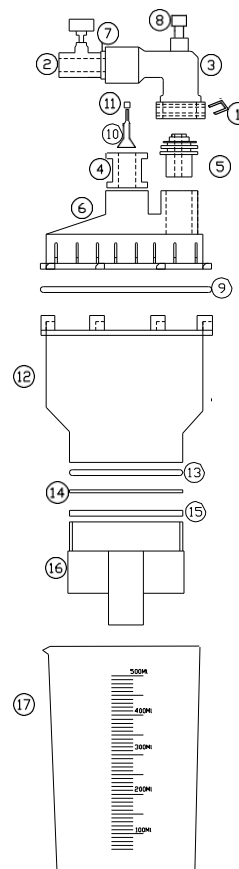
Operating Pressure: - 2.0 Kg/cm²

INSTALLATION:-

1. Provide 1/4" BSPM threaded nozzle at the location where the SDI has to be measured.
2. Screw the needle valve to the nozzle.
3. Connect the kit at the quick release coupling. The installation is now complete.
4. Disconnect the kit and keep in the box.

List Of Parts.

1. U Pin
2. 1/4"SS needle valve
3. Quick release elbow
4. Quick release Socket
5. Rubber Grommet
6. Top Cover
7. 1/4" BSPF Threaded adaptor
8. Pressure Gauge 0-4.2kg/cm²
1/4" BSPM threaded
9. 7.7mm dia X 3mm O-ring
10. Air release cone
11. Air release cap
12. Sdi kit body (Polycarbonate)
13. 40 mmdia X 5mm O-ring
14. Cellulose filter paper 0.45micron
15. Filter Support disc
16. Disk Holder
17. 500 ml Beaker



TECHNICAL SPECIFICATIONS:

Material	Polycarbonate / ABS
Sealing	Silicon O-rings
Filter Paper	47mm dia., 0.45 Micron
Filtration area	12.5 cm ²
Capacity	250 ml Housing 500 ml Beaker
Pressure Gauge Range	0 – 4.2 kg/cm ²

TEST REPORT

This is the test and calibration report, as done at our factory, by our calibration & QA team.

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Serial Number	
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Done By:

Due:

Done By:

GUARANTEE CERTIFICATE

We certify that the instrument mentioned above has been tested by us and is guaranteed for a period of 12 months from the date of dispatch. We undertake to make good by replacement or repair defects arising due to faulty design, material Or workmanship within the above mentioned period. Provided that the part in respect to which the complaint is made, is sent at the purchaser's expense.

The warranty is valid subject to:

- * The meter or part there of not being subject to alteration, accidents or misuse.
- * The installation having been done as per our guidelines in the manual.

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