



# SDI Test Kit, Manual

## Product Information

The Silting Density Index Test Kits include a pressure regulator with gauge, a 47 mm filter holder, membrane discs, and all necessary valving, tubing and fittings in a plastic case.

**MAY** Standard Kit contains a box of cellulosic membrane filters that conform to all requirements of the ASTM method. With this kit, additional apparatus required is a graduated cylinder and stopwatch

Additional equipment not provided: (please purchase from another source):

- Graduated cylinder, 500 mL, polypropylene, graduations 5 mL, for SDI testing
- Stopwatch for SDI testing, 0.2 second increments



### **Replacement Membrane solution type Gridded MCE SDI Test Kit**

Pore size 0.45  $\mu\text{m}$

## Product Description

This kit is used to indicate the quantity of particulate contamination in relatively low-turbidity water supplies or waste streams.

Based on ASTM Method 4189-95, the test is accepted industry-wide to estimate the rate at which colloidal and particle fouling will occur in water purification systems.

The SDI test measures the decay in flow rate through a 47 mm diameter, 0.45  $\mu\text{m}$  pore size membrane. The 0.45  $\mu\text{m}$ .

membrane is chosen because it is more susceptible to plugging from colloidal matter than from hard particles such as sand or scale.

The decay in flow rate is converted to a number between 1 and 100. The lower the silting density index number, the lower the fouling tendencies of the water. To ensure economic and efficient operation, most manufacturers of reverse osmosis systems recommend a silting density index of 5 or less.



**THANTHIYA TECHNOLOGY CO.,LTD.**

288/54-56 Phaholoyothin Rd, Anusaowaree, Bangkhen, Bangkok 10220  
Tel. 02-970-4356 (6 Lines), Fax. 02-552-0962 E-mail : info@ttytech.com