AQUACORP

*Quality Water Treatment Equipment from Australia's One Stop Independent Wholesaler...*

# SDI Kit Operating Procedure

**SDI test Kit** supplied as per above photo along with (Pack of 25) 0.45 micron hydrophilic membrane papers and tweezers.

Measuring Cylinder & Stopwatch not included.

## Operating Procedure

- Place the membrane filter on its support by undoing the holder (Comp 7).
- Remove the blue butter paper cover and lift the 0.45 micron white membrane with tweezers. Seat the filter membrane making sure that the O-Ring seal is seated.
- Bleed pressure carefully for loosening the screws on the holder.
- Tighten the O-ring seal and fix the support vertically.
- Adjust feed pressure to 0.2-Mpa on the pressure gauge with the pressure regulator.
- Measure time to collect first 500ml sample and recorded it as t0.
- Keep filter in operation for 15 min
- After 15 min, collect another sample of 500ml and record time t1. Membrane filter may be retained for further analysis.

## Calculation

SDI Formulae = (1-(t0/t1)) x (100/t1)

When t1 is 4 times as long as t0, the resulting SDI is 5.
If the test cannot be completed and sample time for the 15 min interval cannot be recorded, it can be inferred that the water sample has a SDI value greater than 5 and needs further pre-treatment.

## Understanding SDI result

IF SDI >5, water not suitable for RO.
IF SDI<5, water is suitable for RO.

## Re-ordering Part Numbers:

**AQSDIKIT** (complete kit as shown above, supplied with pack of 25 membrane papers)

**AQSDIPAPER** (replacement pack of 25 membrane papers)

Distributed By

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