

# ***Filtration Screen Test Unit***



Filtration and Water Treatment

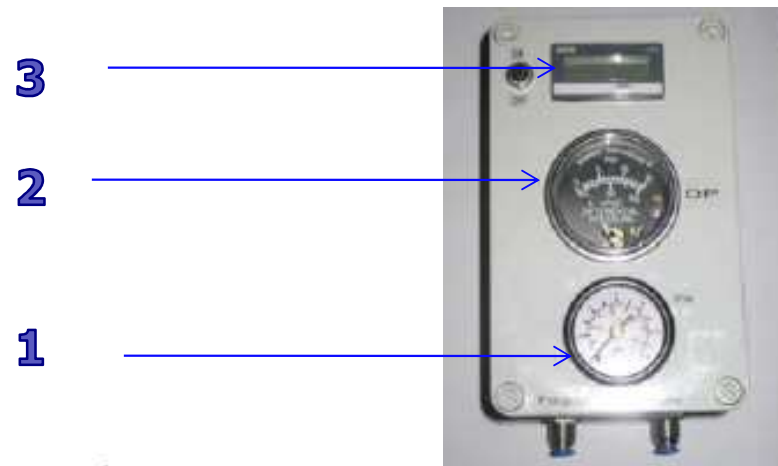
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# FTS UNIT - Description

**GENERAL-** Filtration screen test unit is designed to measure the elapsed time of test screen blockage formation.

This measure time can be used to calculate the effective screen required. The filtration screen test unit is provided with:

1. Line pressure meter (marked Pin) ranging 0-10 bar.
2. Differential pressure meter (marked DP) ranging 0-1 bar.
3. Digital LCD time counter, in HH:MM:SS format.



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# FTS UNIT - Instalation

1. Insert known screen type to the test filter.
2. Verify that test unit start/stop switch is in **STOP** position.  
(Note that is STOP position the counter is automatically reset to 0)
3. Maintain inlet valve (**Vin**) closed and connect the line pressure to the test filter inlet.
4. Connect the test filter **HIGH** outlet to the test unit **HIGH** inlet using 6mm tube.
5. Connect the test filter **LOW** outlet to the test unit **LOW** inlet using 6mm tube.
6. Open inlet valve (**Vin**) and switch the test unit start/stop switch to **START** position  
Note that the counter is running.

**WARNING** – Pressing gently the small RST key (located below the LCD display) during the process will reset the counter to 0!



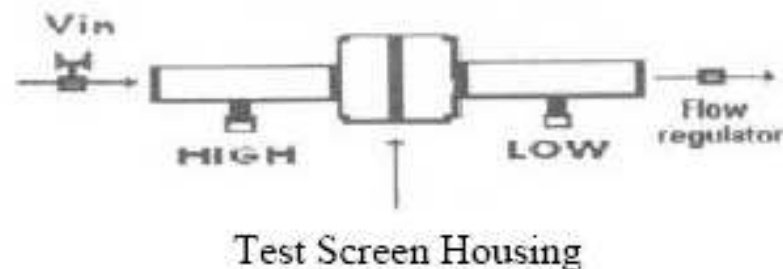
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# FTS UNIT - Operation

## NOTE THAT-

- Pin** is showing the line pressure throughout the measurement.
- DP** is showing the test filter differential pressure development.
- Time counter is counting.
- Above DP set point (Factory set to 7 psi $\approx$ 0.5 bar) the time counter will stop its counter.
- Filter flow rate is fixed to 10 liter/minute using the flow regulator.
- Screen area is fixed – 7 cm<sup>2</sup>.



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