

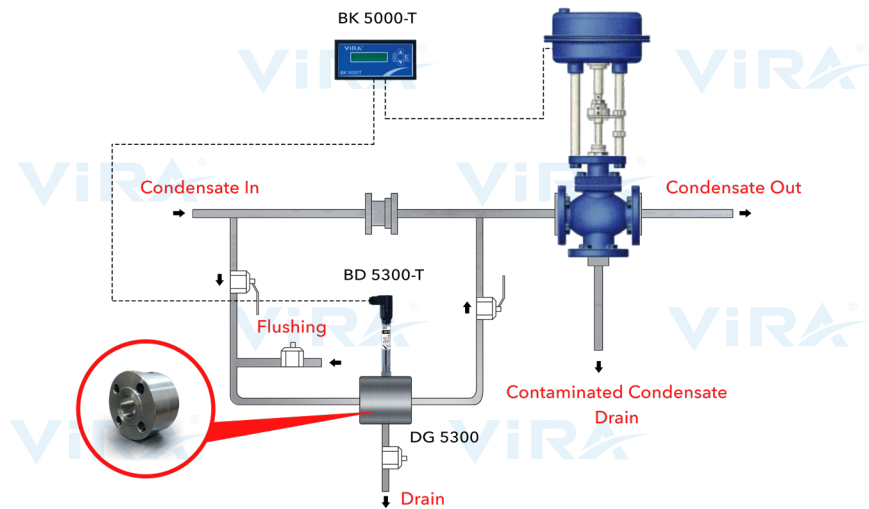
## BS3-T

### Condensate Contamination Control System

Condensate is very valuable for steam producing plants and needs to be recycled. It must be ensured that the returned condensate is clean. Leakage in one of the devices used for heat transfer may cause the heated fluid to mix into the condensate water.

The condensate contamination control system monitors and displays the conductivity of the condensate. It automatically diverts the condensate to drain by a 3 way valve instead of back to the boiler system.

When the conductivity drops to the desired level, the condensate is allowed to return to the boiler system, thus minimizing heat and water wastage, as well as avoiding the possibility of contaminating the feedwater.



**BS3-T System Application**

**Note:** BS3-T Vira Condensate Contamination Control system performs contamination control with electrical conductivity measurement.

#### BS3-T Condensate Contamination Control System Components



##### Conductivity Controller

**Type :** BK 5000-T

**Mains Supply :** 230Vac (+5% / -10%)  
50/60Hz

**Enclosure :** Panel Mounting

**Functions :** Valve Control, High TDS Alarm

**Output :** 4-20 mA Output, High TDS Alarm Relay, Valve Relay, RS 485 Modbus Output

**Features :** Conductivity Set Value, Alarm Set Value, Valve Relay Test, Alarm Relay Test, Temperature Compensation



##### Probe Body

**Type :** DG 5300

**Body :** AISI 304 SS, AISI 316 SS

**Flange Connection :** DN 15 - DN 50

**Probe Connection :** 1/2" , 3/4', 1"

**Drain Size :** 1/4"

**Nominal Pressure :** PN 16, PN 25, PN 32, PN 40, PN 63



##### Temp. Compensation Type Conductivity Probe

**Type :** BD 5300-T

**Nominal Pressure :** PN 40

**Max. Operat. Temp. :** 239°C

**Max. Operat. Press. :** 32 Bar g

**Connection :** 1/2" BSP Screwed

**Max. Ambient Temp. :** 70 °C