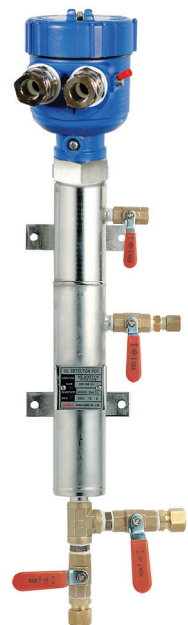


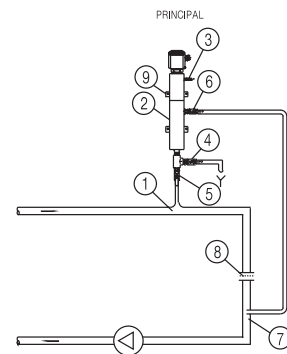
Level Switches

Capacitive Type Oil Detector

• OIL CONTAMINATION DETECTOR ON THE PIPING LINE



PRINCIPAL PIPING DIAGRAM



- ① Tapping point for partial flow 1/2" PT on the top of the cooling water line
- ② Measuring pot with oil detector
- ③ Vent valve
- ④ Sampling & Cleaning cock
- ⑤ Inlet isolating valve
- ⑥ Outlet isolating valve with cleaning process
- ⑦ Return partial flow 3/8" PT
- ⑧ Orifice plate
- ⑨ Wall mounting plate

GENERAL

This device is installed in the cooling water line of ship and is designed to detect oil in cooling water.

This system consists of oil detection pot, capacitive compact switch and control unit. Oil detection pot for separating oil and water has not cock valve for isolating the input and output line.

Capacitive type oil detector is installed in oil detection pot, detecting oil isolated from water on the top of oil detection pot.

Control unit receive whether it is detected or not in signal from the capacitive compact switch and convert point of contact to relay contact.

TECHNICAL SPECIFICATION

- Max. Pressure : 5kg/cm²
- Max. Temp. : 110 °C
- Flow : 100~300ℓ /h
- Sensitivity : Approx. 50ml oil
- Power supply : AC 110/220V
- Output : Relay output(DPDT)

• OIL DETECTOR ON THE TANK



GENERAL

Boiler feed filter tank have a inspection chamber or devide area in tank to accumulate oil when oil contamination in boiler water.

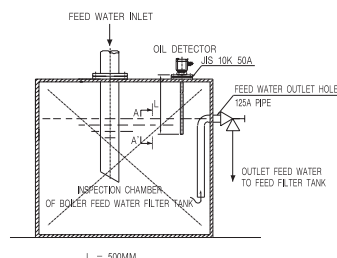
When incoming oil contaminated water in inspection chamber, the feed water only go out to feed filter tank and oil with be accumulate in inspection chamber until drainage.

When the normal conditions, the end part of electrode will be in water level always.

But the water contaminate oil that the oil is accumulate top level in inspection chamber, the electrode will be in oil level instead of water level. The oil detector will activate alarm.

After drain oil in inspection chamber, the oil detector return to normal condition.

INSTALLATION ARRANGEMENT



TECHNICAL SPECIFICATION

- Type : Capacitive oil detector
- Power supply : AC 110/220V
- Output : Relay contact(DPDT)
- Operating pressure : 10bar
- Max. Temp. : 100 °C
- Protection : IP66
- Conn. size : G 1-1/2"