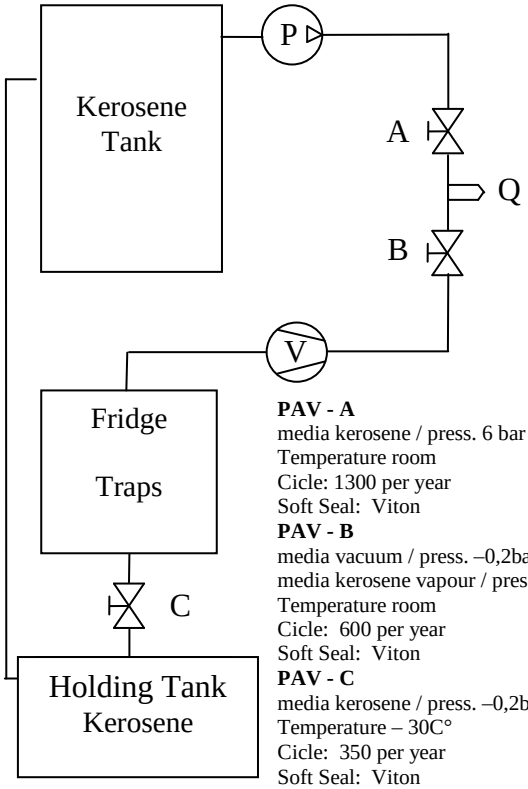
Italy – 24050 ORIO AL SERIO (BG) Via Portico,17 - Tel.: ++39 / 035 / 531298; fax: ++39 / 035 / 531763 - E-mail: mm@mminternational.net - website: www.mminternational.net

KEROSENE FILLING RIG

The equipment is used to fill thermic probes with kerosene. The system is made up of an injection unit, a cooling system, a vacuum pump, a pressure pump and a kerosene tank.

PLANT DESIGN



PAV - A
media kerosene / press. 6 bar
Temperature room
Cicle: 1300 per year
Soft Seal: Viton
PAV - B
media vacuum / press. –0,2bar
media kerosene vapour / press. 6 bar
Temperature room
Cicle: 600 per year
Soft Seal: Viton
PAV - C
media kerosene / press. –0,2bar
Temperature – 30C°
Cicle: 350 per year
Soft Seal: Viton

APPLICATION

1st stage – Vacuum

The probe is connected to the fast connection nozzle (**Q**). When the vacuum pump starts (**V**) valve (**A**) opens and creates a –0,2 bar depression inside the probe to prevent air bubbles from forming during filling operations.

2nd stage - Filling

Kerosene at room temperature contained in a tank is controlled by pomp (**P**) and sent to the filling unit. Valve (**A**) closes and valve (**B**) opens to let kerosene into the probe. When it is full, the tightness of the probe is tested up to 6 bar pressure.

3rd stage – Exhaust of the injection unit

When filling is over, the probe is disconnected from the injection unit, valve (**B**) closes, valve (**A**) reopens and the vacuum pump (**V**) starts, creating a depression inside the circuit. Kerosene left inside the unit is sucked up and sent into a heat exchanger to be cooled up to –30° and brought back to a liquid state. Valve (**C**) installed at the bottom of the heat exchanger opens at the end of the day and kerosene exhausts into a collecting tank. Kerosene is then carried back into the main tank.

SOLUTION

TYPE BSG205CXW00 – SXS cod. 75883730490

S/S normally closed bi-directional PAV
Body Actuator Ø45 – Connection ½" BSP
Flow direction over / under seat
Pilot pressure min 6,2 / 5 bar - max 10 bar
Working pressure 0-16 bar
Seal material VITON