DRY RUNNING AND OVERPRESSURE PROTECTION DEVICE

In order to avoid the overpressure on the delivery site, the pump can be endowed of the pressure transmitter and connected to pressure controller and a control panel it stop the pump when the pressure exceed the lay out value. You can use the pressure transmitter even against the dry running and in this case it has to be set up in order to stop the pump when there is not pressure on the delivery site.

The protection device consists of the following components:

1. Pressure transmitter
2. Flush diaphragm
3. Connector.

Pressure transmitter flush diaphragm in which it is not essential to the diaphragm seal, this transmitter can also be used with sludge, type benthic or drilling, no for dewatered sludge or highly abrasive.

For resistant to highly abrasive sludge use in additional diaphragm seal.

DESIGN FOR PRESSURE TRANSMITTER.

Ranges: 0-10 bar to 0-25 bar.
Process connection: G ½ A.
Accuracy: ≤ 0,25 typical; ≤ 0,5 max EN 837-1.
Process fluid temperature: -4...+212°F (-20°C...+100°C).
Protection: IP 65.
Case: 1.4404 / AISI316L S.S.
Output signals: 4 -20 mA.
N° of wires: 2.
Load (Ohm): R_L ≤ (Vin -8)/0,02
ø exit cables: inches (mm): 0.23...0.35 (6...9).
Minimum range: 15 psi (1 bar)

DESIGN FOR DIAPHRAGM SEAL

Pressure transmitter connection: G ½ A AISI 304 st.st.
Design pressure: PN 40
Process temperature: -4...+248°F (-20°C...+120°C).
Instrument connection: 1.4404 / AISI316L S.S.
Diaphragm: 1.4404 / AISI316L S.S.
Minimum range: 60 psi (4 bar)

INSTALLATION

The protection device has directly to be installed in the discharge pipe of the pump.

Warning
No shut-off device is admissible between the pump and the protection device.