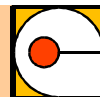
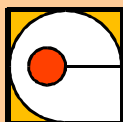
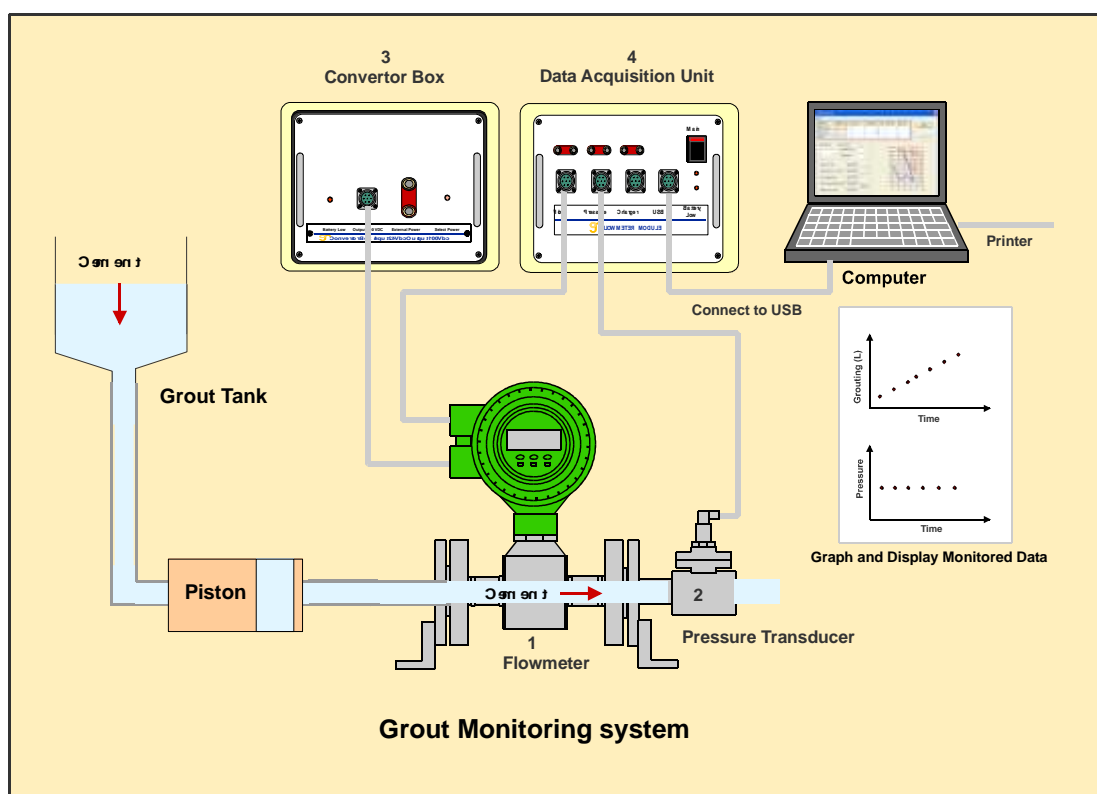


GROUT MONITORING SYSTEM



GROUT MONITORING SYSTEM (Model: G-015)

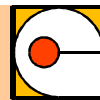
The grout monitoring system (Model G-015) has the capability of measuring and recording the flow quantity, flow rate and the pressure of the grout during grouting. The monitoring system consists of a magnetic flowmeter, a pressure transducer and a data acquisition unit. The flow of the grout through the grouting pipe is measured by the magnetic flowmeter by means of pulsing. The pressure transducer measures the grout pressure in the pipe, which produces an output voltage. The signals from the flowmeter and the pressure transducer are temporarily stored in the data acquisition unit, which then transmits the digital signals to the PC computer. Custom-made software is used to record and display the real-time readings of the measurement. This versatile grout monitoring system is easy to install and operate; the system can be modified to suit the user's requirements.



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GROUT MONITORING SYSTEM



Equipment:

1. MAGNETIC FLOWMETER



- SIZE: 25 mm. (1 in.)
- SPAN FLOW RATE : 0-17.671 m3/hr
- POWER SUPPLY : 24 VDC

2. PRESSURE TRANSDUCER



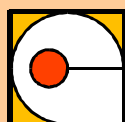
- PRESSURE : 60 bar
- INPUT VOLTAGE : 10 V TO 35 V
- SIGNAL OUTPUT : 0 TO 5 V

3. Data Acquisition Unit Box



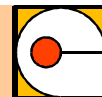
- USB Interface
- 2 Channels for Magnetic flowmeter and Pressure Sensor
- Power : battery 12V

GROUT MONITORING SYSTEM



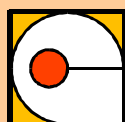
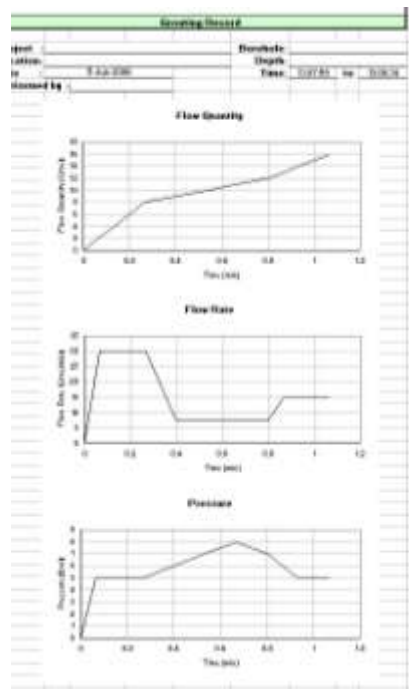
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4. OPERATING SOFTWARE

The software is used for recording the flow quantity and rate as well as the grouting pressure. It is friendly and easy to use with minimum inputs during operation. Real-time displays of flow and pressure are shown on the computer screen, enabling the user to monitor the actual grout condition. In addition, the monitoring data are stored in the PC computer for post monitoring processing. The data can be imported from MS Excel program to display the measurements in graphical or data forms.



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