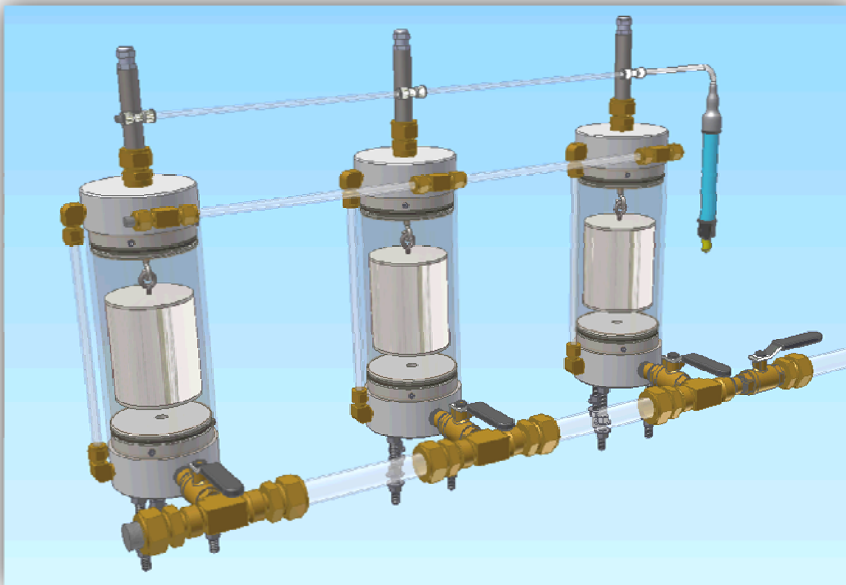


GENERAL DESCRIPTION

The NIVOLIC SG is a high-precision liquid level system designed to measure relative settlement in a multipoint system. It consists of a series of chambers connected together by a liquid line. In each chamber, a weight is suspended to a vibrating wire transducer.

Changes in elevation of the water level in the chamber modify the buoyancy force acting on the weight, thus modifying the resonant frequency of the vibrating wire. In the multipoint system, one of the chambers is the reference for the calculation of relative movements of all the other chambers. A thermistor is integrated in the gauge, enabling measure of temperature.



APPLICATIONS

To measure differential settlement from:

- Dam foundations
- Deflection of bridges
- Building columns
- Floor slabs

FEATURES

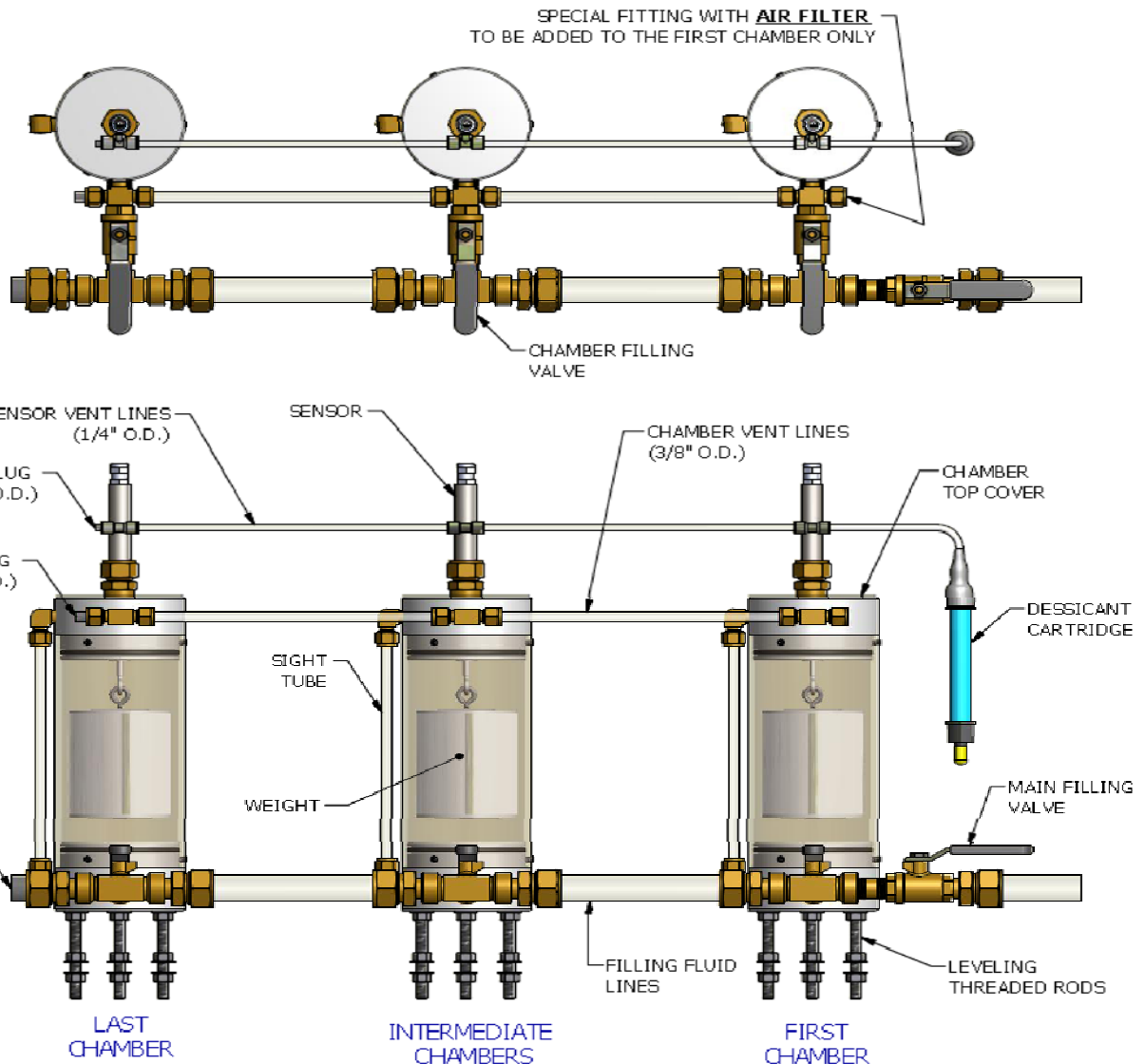
- Long-term reliability
- Frequency signal easy to process and transmit over long distances
- High accuracy and resolution

OPTIONAL ACCESSORIES

- Support brackets

ORDERING INFORMATION

- Range
- Cable and tube lengths
- Number of chambers



SPECIFICATIONS

Range	100, 150, 300, 450, 600 mm
Accuracy*	±0.1% F.S. (each sensor is calibrated individually)
Resolution	- Vibrating wire: 0.02% F.S. (min.) - Temperature: 0.1°C
Fluid type	Water (optional antifreeze solution)
Cables	- IRC-41A: 2 twisted shielded pairs, 22 AWG, with drain wire, PVC jacket, 6.4 mm OD - IRC-41AP: Identical to IRC-41A except that jacket is made of polyethylene

* Achieved with polynomial regression