



ALPHA MAGNETIC LEVEL INDICATOR

The advantage of magnetic level indicator technology is total isolation of the process within a sealed piping column. This eliminates the risk arising out of leaking seals, clouded glasses, and broken glass tubing. Easy access to cleaning and adaptation to a variety of mounting styles and process connections makes MLI preferable over glass level gauges.

PRINCIPLE OF OPERATION

Within the piping column is a float containing an internal group of magnets. A rise or fall of the fluid in the process tank corresponds to a similar change within the piping column. In response to the level movement the float moves up or down accordingly.

Clamped to the piping column in total isolation from the process liquid is a visual indicator housing. It contains a series of flags which are white on one side and red on the opposite side.

The individual flags contain an alignment magnet that couples with the float magnets as the float moves up or down within the piping column. Float movement rotates the flags and changes their color.

The point at which the flags change color, represents true level. Level is indicated or "read" by the corresponding point on the measuring scale.

STANDARD FEATURES:

PIE- ALPHA series magnetic level indicators comes with the following standard features:

- 1) Manufactured as per specifications mentioned in ASME B-31.1/B-31.3.
- 2) Float failure indicator
- 3) External parts are of SS316/ SS316L (client specific requirements shall be complied)*
- 4) Connection size and rating as per ASME B-16.5 Class 150/300/600.

PRESSURE AND TEMPERATURE RATINGS:

PIE-ALPHA series Magnetic level indicators are available for a working pressure of 120 bar and a maximum temperature of 250° C.

Magnetic floats are available for a pressure of 120 bar and a maximum temperature of 250° C.

- Exotic materials are also available as per Client's requirements.



PROCESS INSTRUMENTATION AND ENGINEERS,

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