



PNEUMATIC LEVEL SWITCHES

SIGMA's Pneumatic Level Switches are used in application where electrical switching is prohibited or electricity is not available. The working principle is the same, except that the magnet indirectly actuates a 3/2 valve for changeover. This system requires minimum 2 kg/cm² clean filtered air, preferably through an AFR. **In Order to protect the switch assembly from contaminants, filtered and dried gas/air supply is recommended**

Side Mounted : (with / without cage)

Buoyancy force of process liquid on a float causes the float to move with the liquid's surface. Float movement pivots a magnet into the field of a like-charged switch magnet. As the magnets repel each other, the switch magnet moves, actuating the switch.

- ✓ Free swinging float arm
 - No cavities to clog (eliminates "Float Stick")
- ✓ Magnetically activated
 - No seals to maintain / No leaks / No fugitive emissions.



Specifications

Operating Pressure	: 2 - 8 Bar
Permissible Fluids	: Air/Inert Gas
Fluid temperature	: -10 to +50 Deg C
Connection size	: 1/8" NPT / 1/4" NPT
Switch Differential	: Within 20 mm (float type)
Pressure	: Up to 20 Bar / specified
Temperature	: -10 to 75 Deg C / specified.

For Higher pressure / temperature consult Sigma.

Application Areas of Pneumatic Level Switches

- | | |
|--|-----------------------|
| - Scrubbers and Separators | - Bulk Liquid Storage |
| - H ₂ S & CO ₂ Service | - Radiator Level |
| - Process Vessels | - Oil Sumps |
| - Water / Fuel Tanks | - Day Tanks |

Top Mounted : Float/ Displacer (with/without cage)

Operation is based upon simple buoyancy, whereby a float or a spring loaded weighted displacer rises following the liquid level. A magnetic sleeve, connected to the float / displacer, moves up and operates within a non-magnetic enclosure tube. The magnetic sleeve attracts a pivoted magnet, actuating a switch mechanism located out-side the enclosure tube to give NO or NC changeover. A fall of liquid level will de-actuate the switch mechanism



Note

All the Pneumatic Level Switches mentioned in this catalogue are our standard design. If the standard items do not meet your requirements, we can modify them to meet your specifications and would appreciate the opportunity of making suggestions to cover your application, based on engineering principles. SIGMA reserves the right to modify specification / design from time to time, which is deemed suitable for the product without prior intimation.

Consult Sigma for ordering code



Available



IBR Approved
Pneumatic Level Switch