

Float & Board Level Indicator without guide wires

INTRODUCTION

NK Instruments Pvt. Ltd. make Non Guided type Float & Board Level Indicators are designed for an accurate, reliable & trouble free float operated technique used in large non -pressurized storage tanks. It is suitable for the installations in the tanks where there is no turbulence in the liquid.

PRINCIPLE

Direct Indication

The Non Guided Float & Board Level Indicators consists of a float connected to a pointer through a rope via a set of pulleys. The pointer glides over a calibrated gauge board, positioned parallel to the tank. The float accurately follows liquid level variations in vertical direction. The horizontal float movement is as such, the pointer in 'TOP POSITION' when tank is 'EMPTY' and in 'BOTTOM POSITION' when 'FULL'.



GAUGE CLASSIFICATION

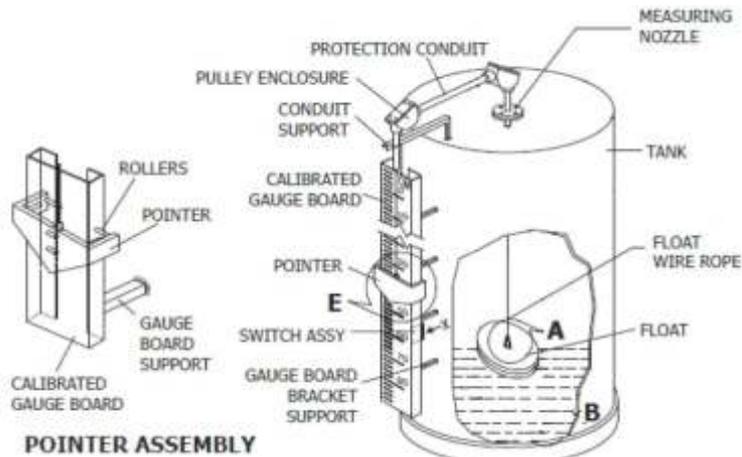
| | |
|-----------------------------------|--|
| Measuring Range | : Up to 25 meters. For more than 25 meters please consult factory |
| Float | : 12 Inch or 15 Inch |
| Calibrated Gauge Board | : 6" wide x Al white powder coating with black graduations & numerical |
| Least Count | : 5mm |
| Maximum Temperature | : 80°C (PP) / 150°C (SS) |
| Maximum Pressure | : 5 Kg/cm ² |
| Float Wire Rope | : 01.6mm x SS 304 / SS 316 (multistrand) / 06mm x PP (multistrand) |
| Installation | : Grounded Level Tank / Underground Tank (sump) / Overhead Tank |
| Specific Gravity of Fluid | : 0.75 |
| Connecting Pipe | : Carbon Steel Powder Coated |
| Local Indication | |
| Direct | : Powder coated Red CI pointer with Nylon Rollers to provide super smooth movement along gauge board. Pointer Tip indicates 'Level'. |
| Follower Magnet | : Red Capsule moving inside indicator tube. White annular line on capsule indicates 'Level'. |
| Pulley Assemblies (2 Nos.) | : Cadmium Plated Steel Pulley with PTFE bush and SS shaft housed in weather proof CI enclosure. |

PROTECTION CONDUIT

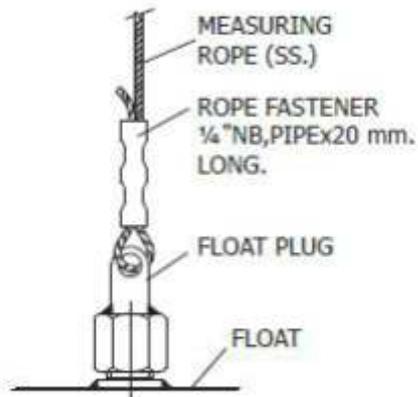
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|-----------------------------|--|
| Horizontal Limb | : GI pipe 25NB X 400MM To 800MM (adjustable) |
| Vertical Limb | : GI pipe 25NB X 195MM & 100MM long |
| Process Connections | : 1" Flanged 150# |
| Gauge Board Brackets | : Powder coated MS |

SPECIAL FEATURES :

- Seal Pot : For tanks with vapour pressure up to 600mm WC or corrosive fumes
- Adjustable Switch : Reed switch - 40VA (N/O), 60VA(C/O), Micro S/W – 5A, 230VAC (C/O)
- Note : Custom made assemblies can be provided for specific applications



FLOAT & BOARD LEVEL INDICATOR ASSEMBLY WITHOUT GUIDE WIRES



FLOAT ASSEMBLY

Continuous efforts for product development may necessitate changes in these details without notice

Authorised Dealer



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Float & Board Level Gauge with Guide Wires

INTRODUCTION

NK Instruments Pvt. Ltd. Make Guided type Float & Board Guided type Level Gauges are designed for an accurate, reliable & trouble free float operated technique used in large non -pressurized storage tanks where there are chances of turbulent liquid in the tank.

PRINCIPLE

The Guided type Float & Board Level Indicators consists of a float connected to a pointer through a rope via a set of pulleys. The pointer glides over a calibrated gauge board, positioned parallel to the tank. The float accurately follows liquid level variations in vertical direction. The horizontal float movement is restricted by two guide wires firmly anchored to tank bottom. As such, the pointer in 'TOP POSITION' when tank is 'EMPTY' and in 'BOTTOM POSITION' when 'FULL'.



Gauge Classification

| | |
|----------------------------|--|
| Measuring Range | Up to 25 meters. For more than 25 meters please consult factory. |
| Float | 12 Inch or 15 Inch |
| Calibrated Gauge Board | SS316 x 0200mm & 0350mm |
| Low Pressure | PP x 0200mm |
| Medium Pressure | 6" wide x Al white powder coating with black graduations & numerical |
| Least Count | 5 mm |
| Maximum Temperature | 80°C (PP) / 150°C (SS) |
| Maximum Pressure | 5 Kg/cm2 |
| Float Wire Rope | 2mm x SS 304 /SS 316 (multistrand) / 6mm x PP (multistrand) |
| Guide Wire Rope | 2mm x SS 304 /SS 316 (multistrand) / 6mm x PP (multistrand) |
| Installation | Grounded Level Tank / Underground Tank (sump) / Overhead Tank |
| Specific Gravity of Fluid | 0.75 |
| Connecting Pipe | Carbon Steel Powder Coated |
| Local Indication | |
| Direct | Powder coated Red CI pointer with Nylon Rollers to provide super smooth movement along gauge board. Pointer Tip indicates 'Level'. |
| Follower Magnet | Red Capsule moving inside indicator tube. White annular line on capsule indicates 'Level'. |
| Pulley Assemblies (2 Nos.) | Cadmium Plated Steel Pulley with PTFE bush and SS shaft housed in weather proof CI enclosure |

Protection Conduit

- Horizontal Limb** : GI pipe 25NB x 400mm to 800mm (adjustable)
- Vertical Limb** : GI pipe 25NB x 195mm & 100mm long
- Process Connections** : 3/4" NB , BS-10 t 'D' flange
- Anchor Plate** : SS304 / SS316 plate (25mm x 6mm thick)
- Wire Fasteners** : SS304 / SS316
- Gauge Board Brackets** : Powder coated MS

CONTACT DETAILS

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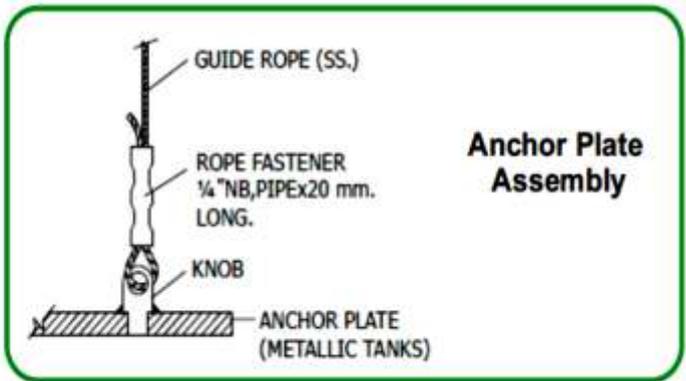
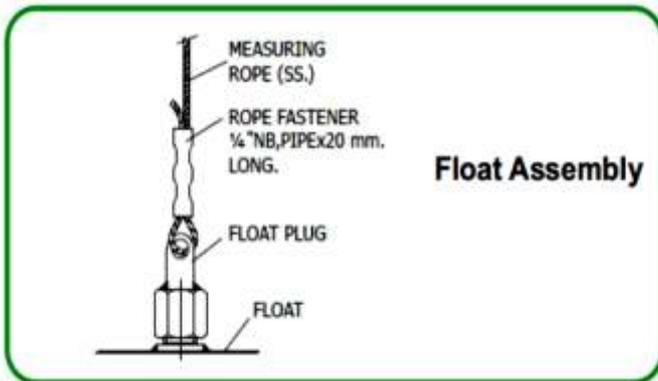
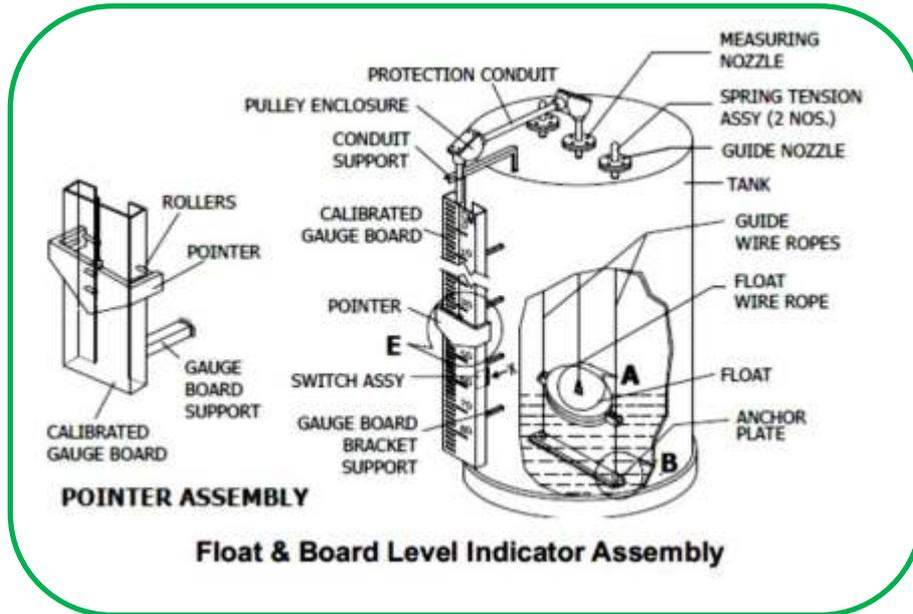


Process Control Instruments for Indication and Control of:

- | | | | | | | | | | |
|----------|---------|----|------|----------|-------|-------------|--------------|----|-----------|
| PRESSURE | VACCUUM | DP | FLOW | VELOCITY | LEVEL | TEMPERATURE | CONDUCTIVITY | pH | VIBRATION |
|----------|---------|----|------|----------|-------|-------------|--------------|----|-----------|

Special Features

- Seal Pot** : For tanks with vapour pressure up to 600mm WC or corrosive fumes
Adjustable S/W : Reed S/W – 40VA (N/O), 60VA (C/O), Micro S/W – 5A, 230 VAC (C/O)
Note : Custom made assemblies can be provided for specific applications



Continuous efforts for product development may necessitate changes in these details without notice

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Float & Board Magnetic Level Gauge for Pressurized Tank

INTRODUCTION

NK Instruments Pvt. Ltd. make Float & Board Level Indicators for pressurized tanks are designed for an accurate, reliable & trouble free float operated technique used in large tanks where there is blanketing system or, there are fumes / vapours in the tank by which tank gets pressurized.

PRINCIPLE

Guided & Follower Magnetic Indication :

The Float & Board Level Indicators consists of a float connected to a magnetized counter weight moving in a sealed SS Chamber, which in turn drives a follower magnet indicator inside a cylindrical glass tube to indicate 'LEVEL'. The follower pointer slides over a calibrated gauge board, positioned parallel to the tank. The float accurately follows liquid level variations in vertical direction. The horizontal float movement is restricted by two guide wires firmly anchored to tank bottom. As such, the pointer in 'TOP POSITION' when tank is 'EMPTY' and in 'BOTTOM POSITION' when 'FULL'.



Gauge Classification

Data Sheet

| | |
|---------------------------|--|
| Measuring Range | Up to 6 meters. |
| Float | 12 Inch or 15 Inch |
| Medium Pressure | 4" wide x Al white powder coating with black graduations & numerical |
| Least Count | 5 mm |
| Maximum Temperature | 80°C (PP) / 150°C (SS) |
| Maximum Pressure | 5 Kg/cm ² |
| Float Wire Rope | 2mm x SS 316 /SS 304 (multistrand) / 6mm x PP (multistrand) |
| Guide Wire Rope | 2mm x SS 316 /SS 304 (multistrand) / 6mm x PP (multistrand) |
| Installation | Grounded Level Tank / Underground Tank (sump) / Overhead Tank |
| Specific Gravity of Fluid | 0.75 |
| Connecting Pipe | Carbon Steel Powder Coated |

Local Indication

| | |
|----------------------------|--|
| Direct | Powder coated Red CI pointer with Nylon Rollers to provide super smooth movement along gauge board. Pointer Tip indicates 'Level'. |
| Follower Magnet | Red Capsule moving inside indicator tube. White annular line on capsule indicates 'Level'. |
| Pulley Assemblies (2 Nos.) | Cadmium Plated Steel Pulley with PTFE bush and SS shaft housed in weather proof CI enclosure |

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