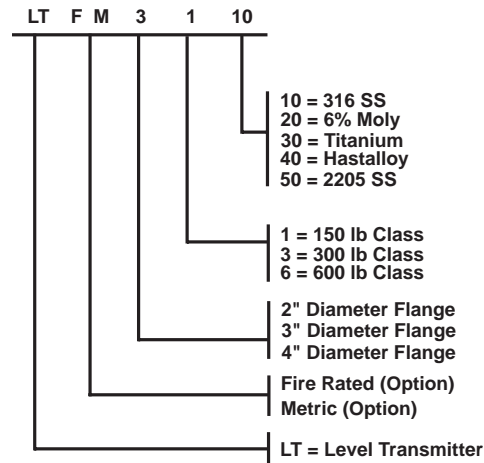


**Model LT-3110
Level Transmitter Isolation Valve
Standard Specifications:**

- Size:** 3" Nominal
- Process connection:** 150# ANSI
- Face to Face:** 2" Width
- Process Mounting:** 1 set of through holes
- Instrument Mounting:** 1 set of tapped holes
- Process Purge Connection:** 1/2" NPT - for Swirl Purge™
- Instrument Purge Connection:** 1/4" NPT - for Instrument Calibration
- Actuation:** 1/4 Turn on / off
- Lockout:** Lockable Handle
- Handle Clearance:** 6" from centre of valve

**Level Transmitter Isolation Valve
Model Number Specification System**



Standard Applications

Our valve Model LT-3110 3", 150 lb 316 SS is a standard application Level Transmitter Valve.

Unique Applications

For unique applications our Indu-tech Isolation Valves are available in,

Diameter Flange Sizes:
2", 3", 4"

Metric Sizes: upon request

Pressure Ratings:

- 150 lb Class
- 300 lb Class
- 600 lb Class

Specialty Materials: Our valves are also available in a wide variety of materials to suit specific applications including,
- 316 SS
- 6% Moly
- Titanium
- Hastalloy
- 2205 SS

The information contained on this brochure is subject to change without notice. Contact Indu-tech or your Distributor for current technical specifications.

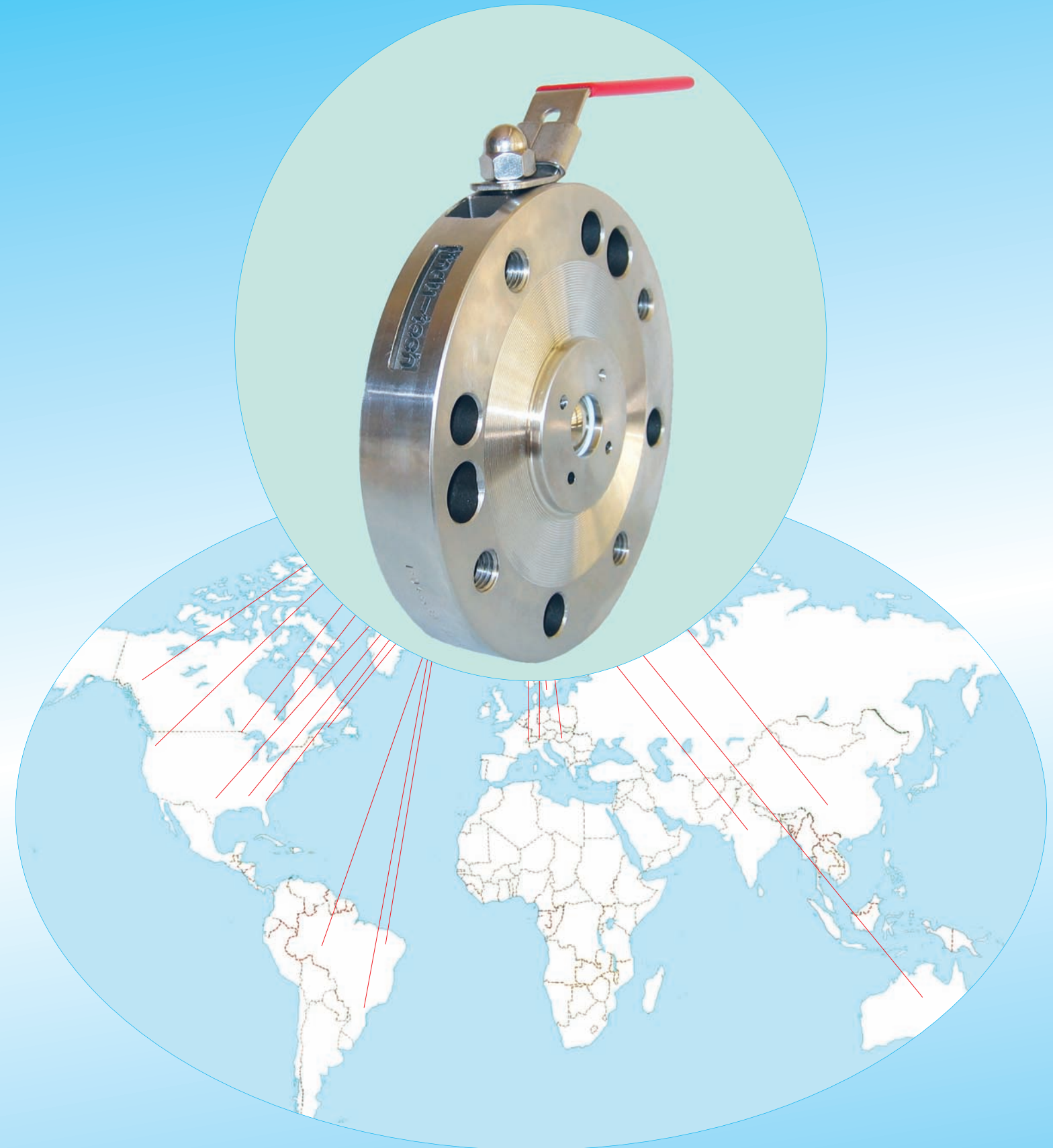
Indu-tech Enterprises Ltd.

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Burnaby, British Columbia,
Canada V5C 5A7

Telephone: 604.299.0300
Fax: 604.299.5900
e-mail: sales@indu-tech.com



Distributed By:



**Indu-tech
Level Transmitter Isolation Valves
The Benchmark of Excellence**



The Indu-tech Level Transmitter Isolation Valve is designed for easy installation, simple operation, reliable performance, and durability throughout time. Your Best Choice! - Here's Why!

Indu-tech Isolation Valves

The Indu-tech name represents quality workmanship and reliable cost effective performance.

At Indu-tech we focus on being first in our valve class for designing, manufacturing, and performing. The Indu-tech Isolation Valve is designed to reduce maintenance costs and improve equipment uptime.

The Indu Tech Isolation Valve maintains its durability under exposure to high temperatures, corrosive applications, tight spaces, and on-line calibrations.

CAD designed with CNC manufacturing ensures that the quality of each and every valve meets North American and European Standards.

Safe

- Non-clogging
- Double O'Ring Stem Protection
- Blow out proof Stem
- Bubble Tight certified
- Transmitter bolts to valve independent of tank studs

Versatile

- ANSI Standard Flanges
- Metric Specifications
- Offset Flanges for KGV Retrofit
- Light weight (No Lifting Gear)
- Compact (Improves Tile Chest Efficiencies)

World-wide Installations

- | | |
|----------------|---------|
| Asia | China |
| Australia | Germany |
| Austria | India |
| Brazil | Sweden |
| Canada | USA |
| Czech Republic | |

Compact Size

The compact size of the Isolation Valve allows for mounting in areas that are difficult or impossible for some of the larger valve designs. Tile Chest openings are reduced thereby increasing heat retention efficiency, lowering capital cost, and improving insulation values of the chest.



Thin Cross Section

The Indu-tech Isolation Valve's thin cross section feature maintains the minimum distance requirements for keeping the Level Transmitter close to the process for measuring accuracy.



Bubble Tight Seal

The Indu-tech Isolation Valve is a ball type design. A close captured seated ball ensures that process medium does not build up internally as in open cavity ball valves.

Each valve is tested under strict Quality Assurance Standards for Bubble Tight Design meeting EPA Standards during its assembly stage.

Swirl Purge™

A multi ported Swirl Purge™ System that ensures a clean and clogged free passageway for the process directly to the Level Transmitter diaphragm.



Tank Side Swirl Purge™

The Swirl Purge™ maintains a clean passage way between the Level Transmitter and the Tank ensuring optimum Level Transmitter readings during normal operations.

The Swirl Purge™ has worked quite effectively in many applications including Black & White Liquors and other solids flow concerns.

Instrument Side Swirl Purge™

The 1/4 NPT port instrument side purge performs several functions. The port provides instrument side pressure relief. It can be piped to pressure relief for applications such as hydrogen peroxide service.

The instrument side purge can also be used for Level Transmitter calibration without the removal of the Level Transmitter. Now the instrument Technician can calibrate each Level Transmitter without removal from the tank.

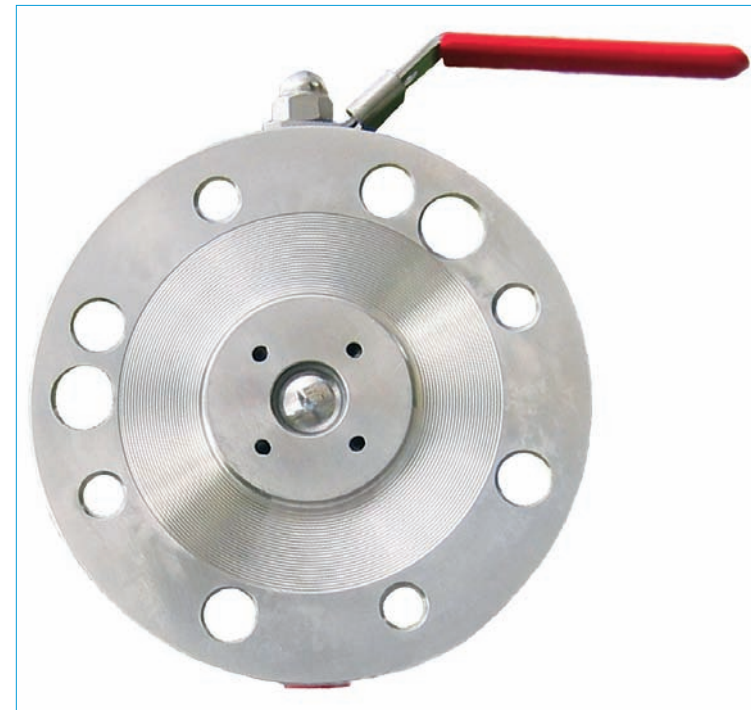
Closing the Isolation Valve (Bubble Tight) allows the Technician to pump metered air into the instrument side cavity and calibrate the instrument.

Another function of the Level Transmitter side purge is to maintain a diaphragm environment, clean and free of contaminates thus ensuring consistent and accurate readings at all times.

Light Weight

The Indu-tech Isolation Valve is light weight, weighing under 20 lb (9 kg) for the 3" - 150 lb Model and under 16 lbs (7.3 kg) for titanium.

These lightweight units are easy to install, especially in tight spots. Even in confined areas a single technician can easily mount the Indu-tech Isolation Valve, without using lifting gear.



Universal Mounting

The standard Isolation Valve has independent bolting patterns to mount the Isolation Valve to the Tank and the Level Transmitter.

One set of through holes are provided for bolting the Isolation Valve to the Tank.

A second set of threaded holes are provided for mounting the Level Transmitter to the Indu-tech Isolation Valve.

An additional set of offset through holes are provided for retrofitting the old style of knife gate valves.

Each set of holes complies with either ANSI Standards or Metric Standards depending on the application.

Separate mounting holes ensures a safe working environment when removing the Level Transmitter from the Tank during normal operations.



Lever Handle with a Simple Lock Out

The Isolation Valve is designed with a 90 degree 1/4 turn on/off lever actuator.

A 1/4 turn of the handle moves the ball from fully open to fully closed in all four quadrants eliminating the need for bulky ratchet actuators.

The 1/4 turn handle can be easily locked out in both the open or closed positions. This lock out feature ensures the Isolation Valve does not inadvertently lock closed during operation.

With no exposed apparatus on the handle, you are guaranteed the ability to open or close the handle on demand, even in situations where the valve has not been activated over many years of use.



API 607 FIRE RATED

The Fire Rated Indu-tech Level Transmitter Isolation Valve meets API codes within your plant. After extensive testing and certification rigours, the Indu-tech Valve has been granted an: **API 607 4th Edition Certification.**

True Isolation

A true Level Transmitter Valve designed for Isolation.

Originally developed for the Pulp & Paper sector, the valve has gained a world-wide presence in a wide variety of fields such as:

- Steam Plants
- Oil & Gas
- Petrochemical
- Chemical
- Food & Beverage
- Pharmaceutical
- Waste Water Treatment

Certifications include:

- API 607 Fire Rated
- CRN Certified (Canada)
- EPA Bubble Tight
- ANSI Specifications
- Metric Specifications

If maintenance downtime or reliability is an issue for you, then the Indu-tech Isolation Valve will provide a solution to your operating needs.

Designed to reduce maintenance, improve calibration, and reduce installation costs, the Isolation Valve will provide many years of operating performance.

For further information on the Indu-tech Level Transmitter Isolation Ball Valve, please contact us at:

Telephone: 604.299.0300
 Fax: 604.299.5900
 e-mail: sales@indu-tech.com

We will answer your application questions quickly and help you locate a Distributor near you.

INSTALLATION INSTRUCTIONS

MODEL LT-3110 ISOLATION VALVE

Thank you for choosing the industry leading Level Transmitter Isolation Valve manufactured by Indu Tech Enterprises Ltd.

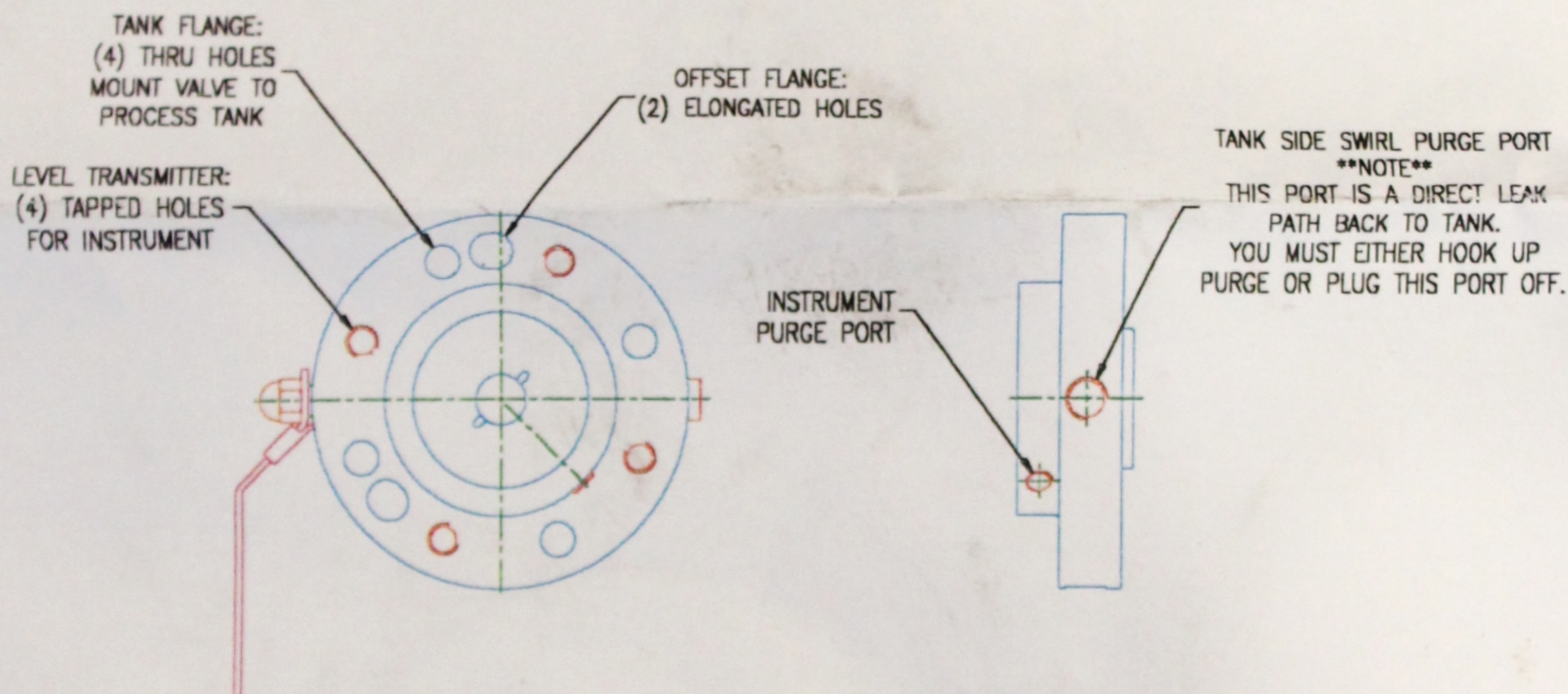
The following notes are to assist you in a successful installation to ensure years of satisfactory performance. The Isolation Valve has two sets of mounting holes for a standard ANSI 3", 150lb flange and two offset holes.

Tank Flange: Four cast thru holes are provided on the valve. This allows the valve to be mounted to the tank independently of the Level Transmitter.

Level Transmitter: Four threaded holes are provided on the Valve to install the Level Transmitter directly to the valve. This allows the removal of the Level Transmitter without disturbing the Valve on the tank.

Offset Flange: Two offset elongated cast thru holes are provided for circumstances when a retrofit of the knife gate valve is being done.

Handle Orientation: The handle can be mounted in any orientation for ease of installation. It is lockable in both the open and closed position.



The Indu Tech Isolation Valve has two purge ports:

Tank Swirl Purge™: A 1/2" NPT pipe purge is provided for purging back to tank. The valve comes with a 1/2" plastic plug that must be removed during installation. If purge is not hooked up the purge port must be sealed with a pipe plug. Seal water (etc) purging will exit thru the four angular holes on the tank side of the valve.

Transmitter Swirl Purge™: The 1/4" NPT port on the instrument side of the valve accommodates transmitter diaphragm purge and calibration. This port is used to clean diaphragm as well as calibrate Level Transmitter with the Isolation Valve in the closed position. If purging is not installed, the port must be closed with a 1/4" pipe plug.

For further assistance, please contact Indu Tech Customer Service at 604 299-0333 or your Local Distributor.