

Spring Return Valves

The valves are ideal for applications where serious issues may occur if the valve is accidentally left in the wrong position. manual stream switching valve equipped with a spring that ensures that it will be in its home position unless the valve handle is manually rotated and held in the other position. This auto return feature is ideal for applications where serious issues may occur if the valve is accidentally left in the wrong position.

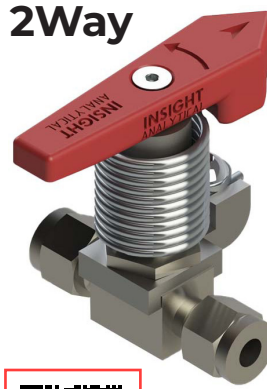
Amazing Applications

- Manual grab sample stations.
- Draining - coalescing filter drains.
- Safety-sensitive applications where incidents may occur due to the valve being left in the wrong position.
- Pressure gauges for the avoidance of dead legs in the system.

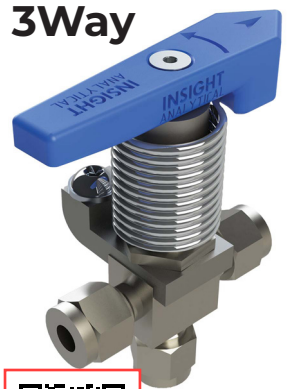
Fantastic Features

- Auto shut-off feature for safety-sensitive applications.
- CRN Registration.
- Color-coded valve handle options.
- Working pressures up to 2500 psig.

2Way



3Way



NPT Probe

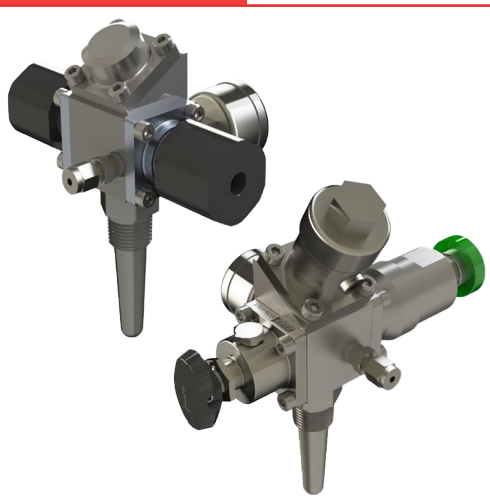
NPT sample quill probe has a NPT process connection and another male NPT connection for an isolation valve. It is designed for most gas phase applications, the common practice of specifying probe length to locate the tip in the center third of the pipe typically results in a probe that is much longer than required to obtain a representative sample. The elimination of excess sample probe length lowers cost, improves response time, makes plugging less likely, reduces pressure drop and flow disturbances in the process pipe, and makes it possible to design the probe to withstand high process gas velocity without failure caused by vortex shedding induced vibration

Amazing Applications

- Natural gas sampling.
- Sulfur recovery process.
- CEM & stack applications.
- Extractive gas analysis.

Fantastic Features

- Hemispherical tip rejects particulate & liquid aerosols.
- Electropolished 316L stainless steel. Improved corrosion resistance, higher fatigue strength, and reduces tendency for thread galling.
- Probe designed to withstand high gas velocities without failure due to vortex shedding.



NESSI Probe

The NPT NESSI Sample probe is an enhanced version of the standard ½" NPT quill probe, where an upper section has been added to allow up to three NESSI/SP76 compliant sample system components to be mounted and connected in series. The quill section of the probe has a 2 mm bore for fast response time, a hemispherical tip to reject particulates and liquid aerosols, and follows the Insight Analytical philosophy of eliminating excessive probe insertion length.

Fantastic Features

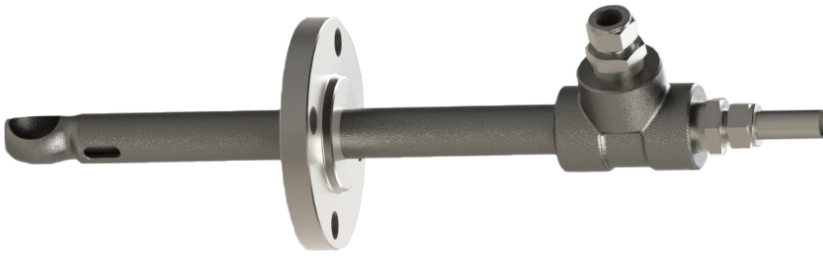
- Modular system.
- Plug&play integration of multiple devices.
- Easy operation.
- Low Maintenance.
- Allows for optimal positioning of analyzers in the process stream.

Amazing Applications

- Natural gas property testing.
- Demanding CEMS applications.
- Process and flare gas applications.
- Liquid petroleum gas, hydrogen, and air gas streams.
- Petrochemical, chemical, oil refining applications.



Scoop / Impact Probe



The Liquid Fast Loop probe design exploits modern technologies including CFD (Computational Fluid Dynamics) and metal 3D printing to produce an optimized solution for creating closed-loop flow in analytical fast loops, without the need for additional pumps or venting the process fluid after analysis. This probe is an ideal solution for applications requiring fast analysis response time and sample return to the process, including composite samplers, moisture measurement, densitometers, and GC, NIR or Raman compositional measurements.

Key Features

- Fast loop without pump or vents.
- No recovery tanks, fluid returns to process.
- Suitable for most liquids from NGL's to crudes.
- Adjustable insertion length.
- 316 Stainless steel construction.

Amazing Applications

- Close couple analyzers, Near-Infrared, Raman, Densitometers, and GC's.
- Fast loop for vaporizer near the tap, improves response times greatly.
- Fast loop for composite or grab samplers, ensures fresh samples available.
- Moisture measurement.



Zone 1 & Div 2 Carryover Sensor

This carryover sensor is designed to detect the presence of liquids such as water, glycol and alcohols in gas phase analyzer sample systems at pressure up to 3450 kPag (500 psig). It functions as a combination of cyclone separator, knock out pot and liquid carryover sensor.

The sample housing has an upper section made from electroless nickel plated aluminum with 1/8" NPT inlet and output ports, with the inlet gas going through a 2 mm diameter orifice and flowing tangentially into a small diameter bore.



Amazing Applications

- Sour gas applications.
- Natural gas water carryover.
- Condensing heat exchangers.
- Glycol dehydration contractor.
- Compressor stations, centrifugal compressors.
- Condensate carryover.

Fantastic Features

- Functions as a combination of cyclone separator, knock-out pot & liquid carryover sensor.
- Capacitive sensor to detect accumulated liquids.
- Adjustable sensor sensitivity.
- Potentiometer to adjust sensor sensitivity.
- NACE compliant housing.

Passive Probe Condenser

The Passive Probe Condenser is designed to limit the dew point temperature of sample gas in analytical sample systems when mounted on the outlet of quill type sample probes. The operation of this condenser is similar to distillation/reflux type sample probes, tube-in-tube heater exchangers, and shell and tube heat exchangers, except it has passive cooling fins to dissipate heat to the surroundings, so does not require cooling air or liquid flow. If the dew point temperature of the sample gas is higher than the condenser body temperature, liquids are condensed and will drain back down through the sample probe and into the process.

Active Probe Condenser

The Active Probe Condenser is designed to limit the dew point temperature of sample gas in analytical sample systems when mounted on the outlet of quill type sample probes. The function of this condenser is similar to distillation/reflux type sample probes, tube-in-tube heater exchangers, and shell and tube heat exchangers, where cooling air or liquid flowing through the stainless steel outer shell cools the inner aluminum core along with the sample gas flowing through it. If the dew point temperature of the sample gas is higher than the inlet temperature of the cooling fluid, liquids are condensed and will drain back down through the sample probe and into the process.

