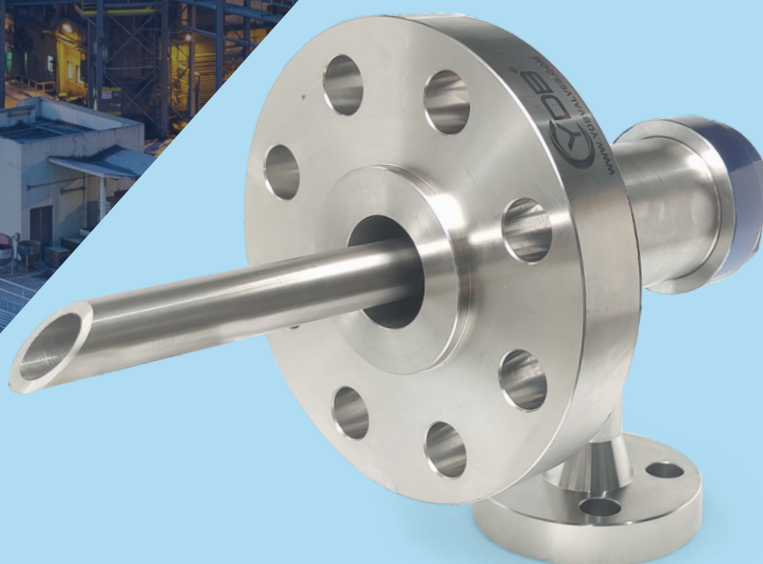




INJECTION QUILL FOR OIL & GAS

Innovations designed
to improve operations
profitability



The background image shows a large industrial facility, likely a refinery or chemical plant, with numerous tall distillation columns, complex piping, and storage tanks. Thick white smoke or steam is rising from several points in the facility against a cloudy, grey sky. A blue semi-transparent banner is overlaid across the lower portion of the image, containing the 'About us' text.

About us

YDB VALVES LLP, is a leading manufacturers of high-quality Injection quills and chemical injection solution for a wide range of industrial application. with years or expertise in designing and manufacturing, we specialize in creating durable, efficient and safe injection quills that are engineered to meet the specific need of our clients.

Our state-of-the-art manufacturing facility and skilled team ensure that every product adheres to the highest standards of quality and reliability. we understand the critical role that precision and performance play in chemical injection systems, which is why our quills are designed to deliver accurate, controlled dosing while being easy to retrieve and maintain.

At YDB VALVES LLP, we are committed to innovation and customer satisfaction. We work closely with our clients to understand their unique requirement and provide customized solutions that enhance the efficiency and safety of their operations. our products are trusted by industries worldwide, and we take pride in contributing to the success of our customers by providing them with top-tier products and exceptional service.

Applications

YDB chemical injection equipment may be used with a wide variety of chemicals and across a broad range of industries & applications.

- Oil & Gas
- Chemical
- Pipeline
- Heavy Manufacturing
- Cooling systems

Inject wide variety of chemicals.

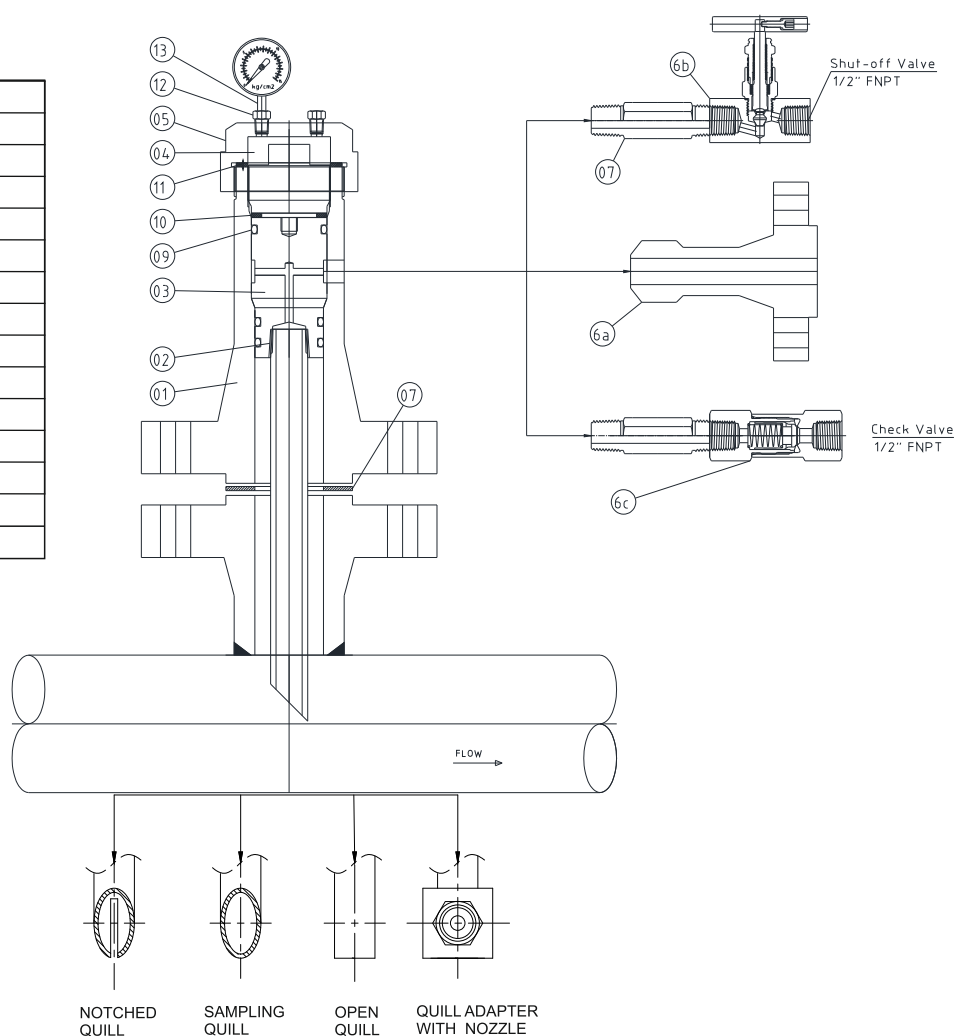
- Corrosion/Scale Inhibitors
- Biocides
- Boiler water Chemicals
- Demulsifiers
- Oxygen Scavengers
- Oxidants
- Flocculants
- Neutralizing Agents
- Dewaxers

HIGH- PRESSURE RETRIEVABLE INJECTIONS

High-pressure retrievable injectors, also known as high-pressure access fittings, are available with three different styles, connection types and lengths

- Styles: Inline injector, 90 deg injector, quill
 - Connections to process pipe: 2"NPS flange, weld, threaded connections
 - Side tee connections 1/4" to 1" NPS flange, weld or threaded connection for mating to injection/sampling line
 - Up to 3/4"NPS flanged connection for quills, inline nozzles, 90° nozzles
 - Length up to 42" (107cm) to fit a wide range of pipeline sizes
 - Temperature range: 0 F (-18°C) to 400°F (204°C)
 - Materials: carbon steel, stainless steel, Duplex SS, Super Duplex SS, Inconel 625 and 825.
- Code compliant: ASME, code B31.3, NACE-MR0175

P. NO	ITEM NAME
01	Access Fittings
02	Quill
03	Stem
04	Body Seal
05	Protective Cover
6a	Inlet flange
6b	Inlet 1/2" shut off valve
6c	Inlet 1/2" Check valve
07	Fluorine rubber gasket
08	O-ring Inner #1
09	O-ring Inner #2
10	Gasket
11	Gasket
12	1/8 NPT plug

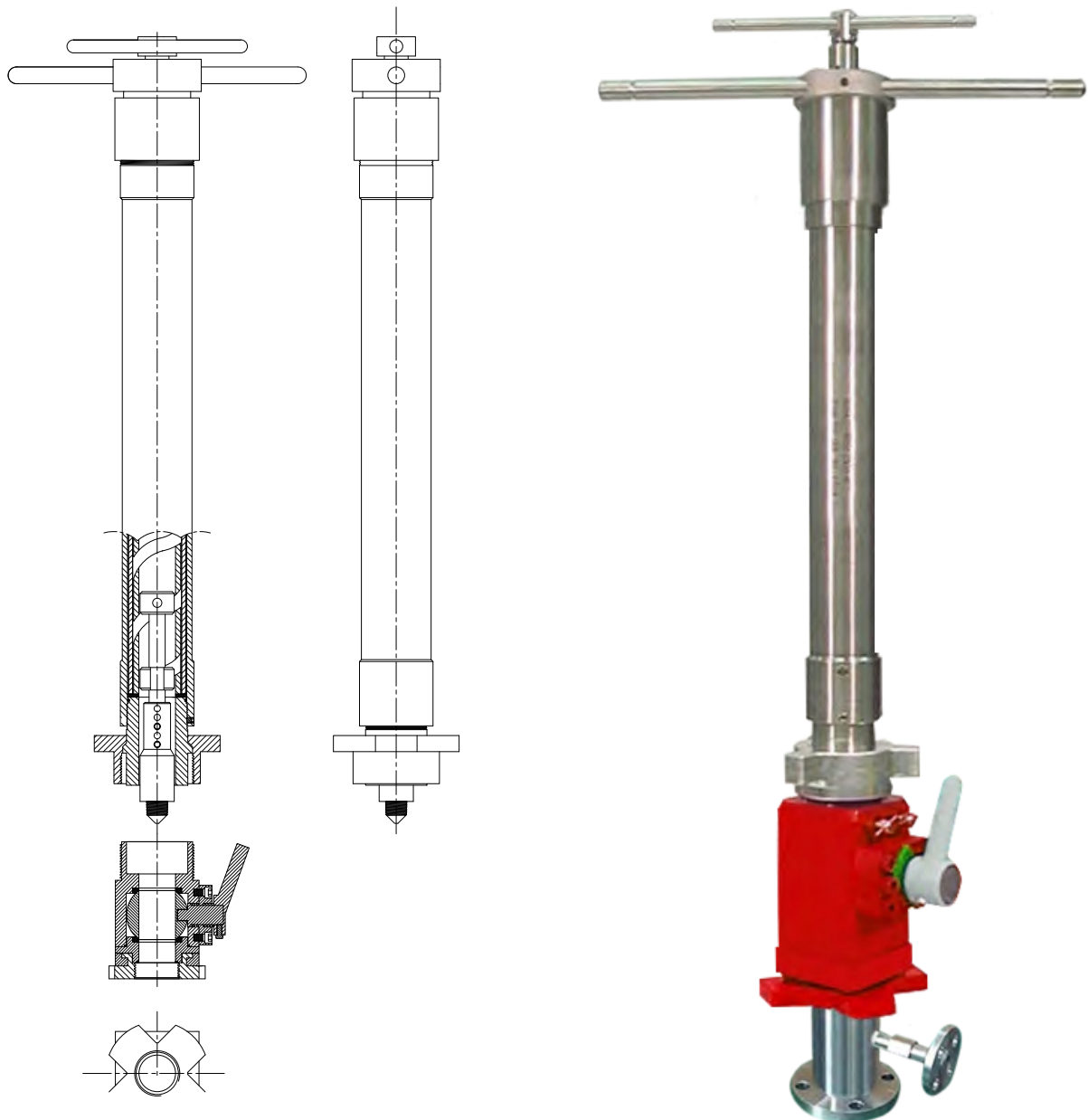


- Injection and Sampling systems are fundamental to corrosion control and process control programs. they are applicable to a large variety of processes in the petroleum, chemical, and water treatment industries, injection systems are used to inject a wide range of chemicals into processes. such chemicals include biocides, demulsifiers, corrosin inhibitors, oxygen scavengers, glycol and monoethylene glycol, dewaxers, methanol, odorizers, and product additives.
- Injection systems may be as simple as using an open-ended tube that allows for even distribution of the injected chemical or as complex as using a head with a cap and core to obtain precise atomization of the chemical.
- Sampling systems are used to take samples of the process fluid or medium. such samples are then analysed in the laboratory for inhibitor concentration levels, the presence of metal ions, oxygen levels, forming compounds, and a wide range or process parameters.

YDB Retrieval Tool and Service Valve is a high-quality tool for installing and retrieving probes and coupons under full operational pressure. Uses a unique technology on bypass valves with replaceable tips made with a soft material to ensure better performance with lower maintenance costs. Comes with a service valve with a built-in bleed off valve that allows tool drainage even on 12'O clock positions.

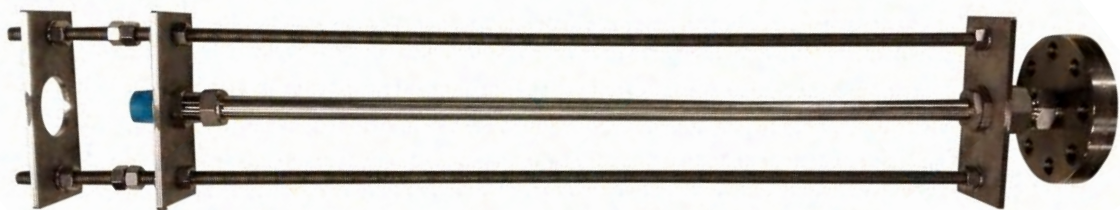
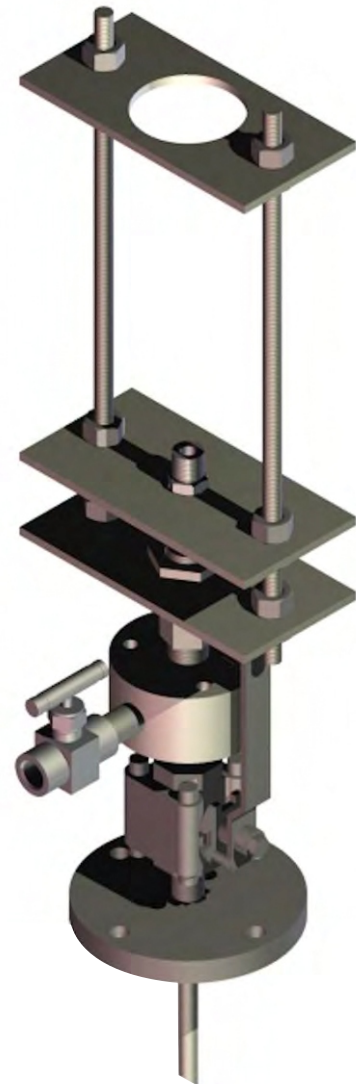
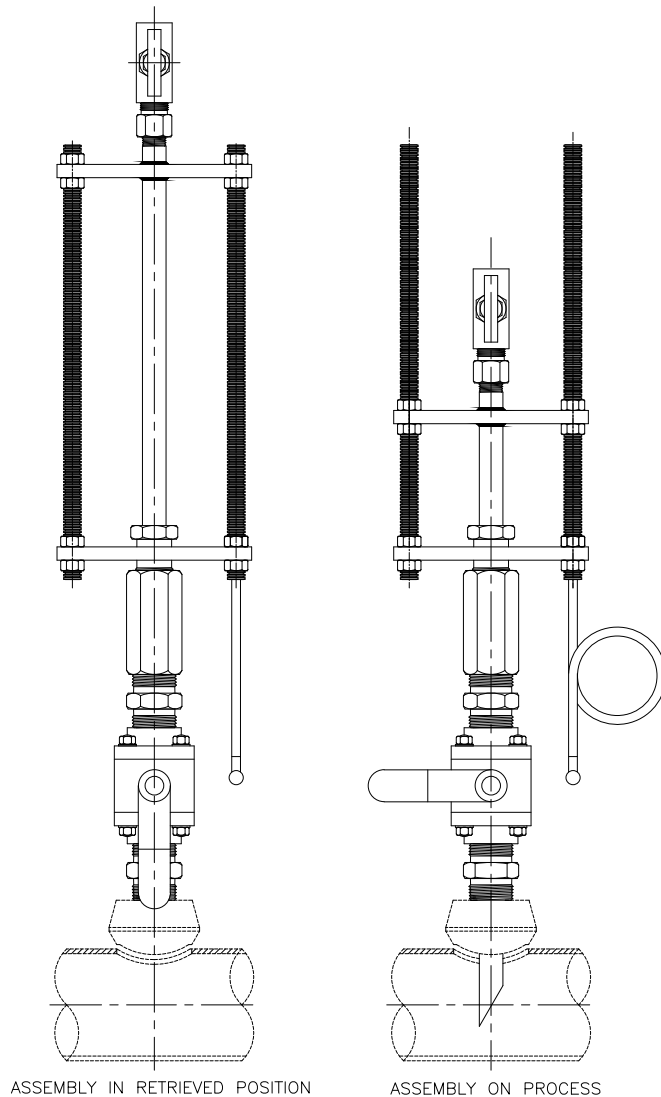
Features

- Temp. Rating- 15°F - 400°F (-26°C- 204°C)
- Pressure Rating- 2500 PSI.
- Short length construction for single person operation.
- Meets NACE MR0175 AND MR0103
- Compact design to allow retrieval in minimum clearance areas.



Retractable injection quill with safety clamp is designed for the accurate locking system allows easy insertion and removal of injection quill shafts. The ability to service this type of equipment on-line has provided a significant advantage, especially in applications where quills or nozzles may block due to process conditions or particles.

Injection/ sampling is done through a shut off valve at the end of the tube/ quill. An optional check valve is available to ensure that the fluid in the system does not back flow to the injection equipment.



In most modern applications there is often requirement to take a sample of the process fluid or inject a particular chemical directly into the process stream at full operating pressures and temperatures.

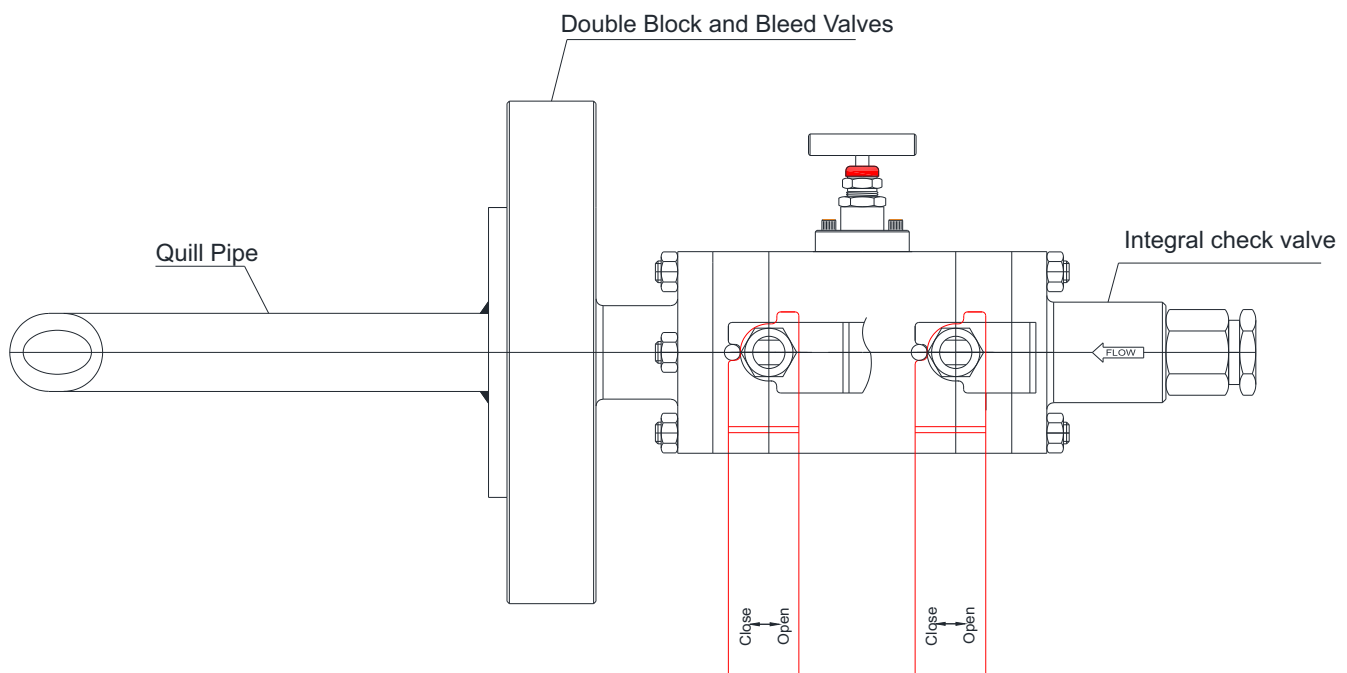
To meet this requirement then any of the YDB VALVES ranges of Double Block Bleed Valves including one piece body DBB, Modular type, Monoflange Valves and Manifold Valves can be fitted with either an Injection Quill or SAMPLING probe whilst retaining the wide choice of options available in each range.

Probes and Quills extend into the process medium and are designed to meet the individual application requirements. Units can be fitted with an Internal Check Valve to prevent back flow into the process stream.

INJECTION QUILLS

In many applications there is a need to inject chemicals such as de-waxing, de-icing or de-foaming agents into the process stream to facilitate a free flow of the process media.

Using the primary and secondary isolation valves the required chemical is injected directly into the process stream. It is usual for injection valves to be fitted with a non-return check valve that only opens when chemicals are injected into the process line thus preventing back flow out of the process stream.



NON RETURN VALVE

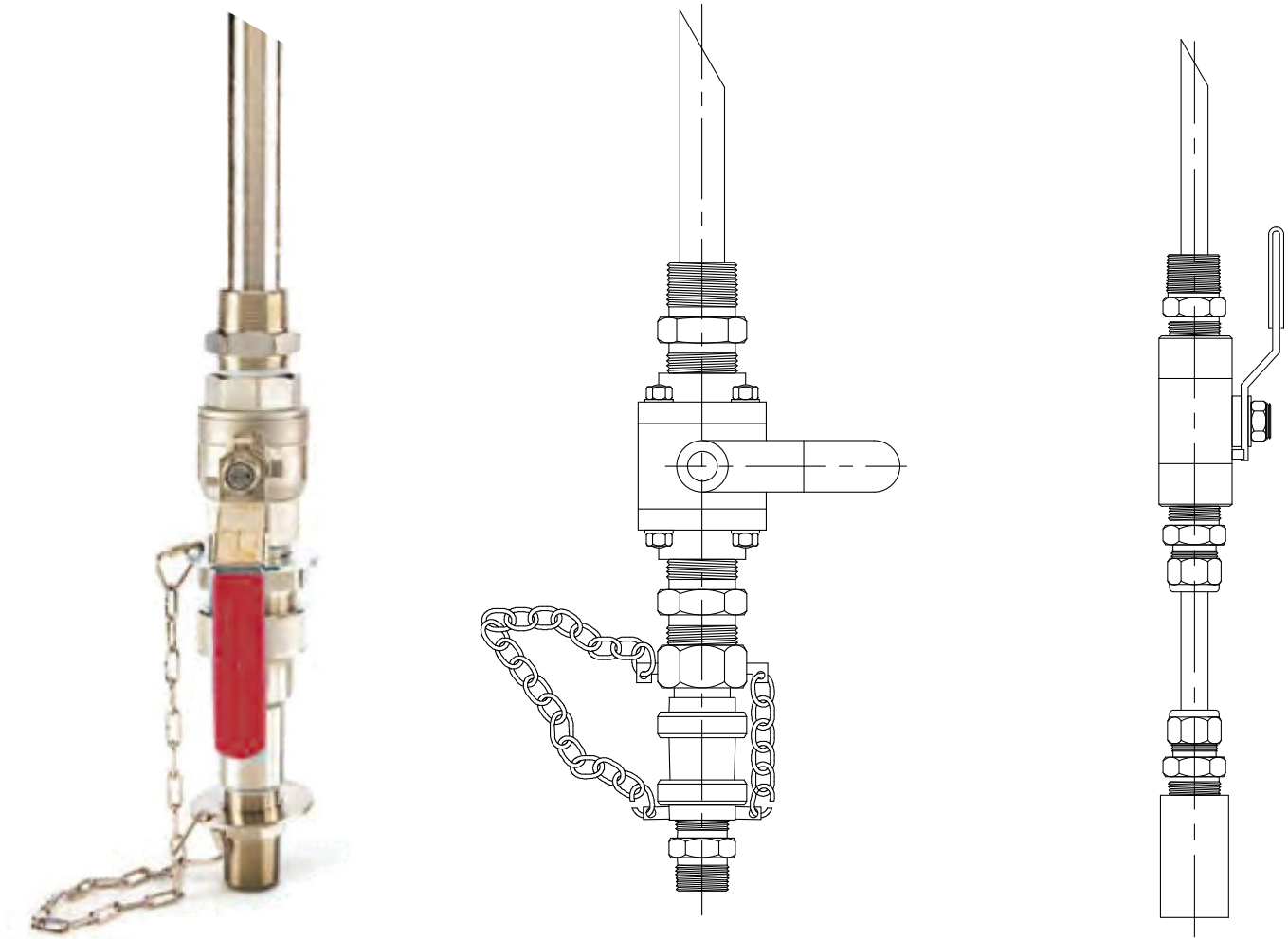
A high integrity full bore non-return valve, can be fitted internally or externally, eliminates the risk of back flow into or out of the process stream. The design uses a spring loaded poppet to ensure leak proof performance and has standard cracking of 10 psig although other cracking pressure can be supplied.

RETRACTABLE INJECTION QUILL WITH SAFETY CHAIN



Safety chain injection quill are designed for low pressure applications. It's commonly used to inject chemicals via metering pumps into tanks or headers which are under pressure and can be inserted or removed without having to shut down system. The injection quill extends into the center of the water fluid providing more uniform chemical dispersion.

- Available in a variety of materials and lengths.
- Safety chain to prevent the injection quill from being completely withdrawn before the corporation stop valve is closed.





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