Injection/Sample Quills

Retractable injection quills are devices that deliver chemicals to a desired location inside piping. Generally, quills are used when relatively small amounts of chemicals are being injected. This is usually done to assist in a more even dispersal of a chemical, especially in liquid streams. In other words, get maximum benefit from the chemical. Retractable injection quills are also used in gaseous streams but unless there is a significant gas velocity the chemical is not adequately dispersed into the gas. A more effective method of introducing small amounts of chemical into a gaseous stream is the pneumatic atomizer or spring activated hydraulic atomizer. The injection quill can also be operated as a sampler. By installing a sampling valve on the fluid inlet, gas or liquid samples can be taken from any desired depth.
Accurate Tool Company has been supplying retractable quills, spray nozzles, pneumatic atomizers, corrosion coupon holders and related equipment to the pipeline, oil and gas production, and refining industry for over 30 years. In addition, Accurate Tool Company offers the ability to design and manufacture custom equipment for special application needs.

The patented rod locking system is found in all Accurate Retractable Coupon Holders. When the Coupon is placed at the desired depth and alignment then the locking screw is tightened. It securely locks the Coupon and insertion rod in place to 10,000 psi. Insertion rod diameters can be reduced which allows hand insertion of Coupons to 1,000 psi.

Accurate Retractable Coupon Holders for high pressure service (above 1,000 psi) require a retractor tool to insert and remove the Coupon. The special Retractor Tool weighs less than 20 pounds and can insert and remove Coupons to 10,000 psi. The special Retractor Tool requires little clearance because it is non-telescoping. Therefore, it can fit into those hard-to-reach places.
**Manufacturer’s Limited Warranty**

Accurate Tool warrants to the original purchaser that the major components of the goods will be free from defects in materials and workmanship for 1 year (Warranty for seals is 3 months) from the date of shipment, subject to the goods being correctly installed, maintained and operated under normal conditions. Accurate Tool expressly disclaims any warranty for any products damage due to corrosion, abrasion, normal wear and tear, product modification or product misapplication. Accurate Tool also makes no warranty whatsoever as to any goods manufactured or supplied by others and expressly disclaims any warranty therefore. Terms of warranty require that Accurate Tool be provided adequate opportunity to repair or remedy any defects in material workmanship. Accurate Tool retains the sole option to accept return of the goods, with freight paid by the purchaser, and to refund the purchase price for the goods after confirming the goods are returned undamaged and in usable condition. Such refund will be the full extent of Accurate Tool's liability. Accurate Tool shall not be liable for any costs, expenses or damages whether direct, indirect, special, incidental, consequential or otherwise. Failure to use genuine Accurate Tool replacement parts shall void this warranty in its entirety. THERE EXISTS NO OTHER REPRESENTATION, WARRANTIES OR GUARANTEES EXCEPT AS STATED IN THIS PARAGRAPH.
Quality Assured

Accurate Tool Company has been supplying retractable quills, spray nozzles, pneumatic atomizers, corrosion coupon holders and related equipment to the pipeline, oil and gas production, and refining industry for over 30 years. In addition, Accurate Tool Company offers the ability to design and manufacture custom equipment for special application needs.

When you use Accurate Retractable Systems you can be assured that you have equipment that has the following features and benefits:

1. Each unit is machined from 316SS stock. It is not assembled from standard pipe fittings or off the shelf hardware items.
2. All 316SS used in the manufacturing is NACE MR0175/94 Standards.
3. No 316SS is used that has a Rockwell C hardness of greater than 22.
4. Each unit is available in most alloys.
5. Each unit is hydrotested before shipping.
6. The Accurate Retractable Systems are made under one or more U.S. patents: 5,138,755; 6,357,470 B1; 6,802,455 B1
7. Each unit has a permanent mechanical stop as a safety feature.
8. Each unit is designed to last for years with little maintenance.
9. Safety is a feature that is designed into every unit.
Designed for low pressure applications, the LP-200HT is easily and safely inserted to 200 PSI. The customer supplies the bleeder valve and nipple of choice. The accurate locking system allows easy insertion and removal of injection quill shafts. Just push down on the insertion knob forcing the injection quill to the desired depth. Then tighten the locking bolt. The injection shaft is now firmly held in place. Once in place the LP-200HT maintains a low profile. No all thread rods protrude out to create an obstruction.

**Maximum Operating Pressure:**
200 PSI

**Maximum Operating Temperature:**
1000 F

**Method Of Operation:**
Hand Inserted

**Maximum Insertion Length:**
48 Inches

**Insertion Rod Diameter:**
Standard 3/8” OD
Optional 1/4” OD

**Size Options:**
1/2” NPT thru 2” NPT Female

**Seals:**
Graphoil Seals

**Material Construction:**
316L S.S. complies with NACE standard MR-0175/94. Suitable for H2S service. Other metals available on request.

**Quill Type:**
45 Degree Cut - 180 Degree Fluid Outlet
Optional - 90 Degree Fluid Outlet
Model LP-750 Insertable/Retractabble Injection/Sampler Quill
Manufactured By Accurate Tool Co.

Maximum Operating Pressure: 750 psi
Maximum Operating Temperature: 450 F.
Method of Operation: Hand Insertable & Retractable
Probe Shaft Diameter: Standard 3/8” O.D.
Pipeline Connection: *1/2” NPT thru 2” NPT
- Optional Flanged Connection
Seal: Teflon Seal
- Optional Graphoil Seal
Material Construction: 316L S.S.
Fluid Inlet Assembly Required, Please See Additional Product Sheet for Specifications
Complies with NACE standard MR-0175/94. Suitable for H2S service. Other alloys available on request.
Model MM-30 Insertable / Retractable Injection Quill
 Manufactured By Accurate Tool Co.

Maximum Operating Pressure: 3000 psi
Maximum Operating Temperature: 450 F.

Method of Operation: Requires Retractor Tool
- HP Retractor Tool
- EXL Retractor Tool for EXL Models
  (For Shaft Lengths Longer Than 48")

Probe Shaft Diameter: Standard 3/8" O.D.
- Other Sizes Available

Pipeline Connection: "1/2" NPT thru 2" NPT
- Optional Flanged Connection

Seal: Teflon Seal
- Optional Graphoil Seal

Material Construction: 316L S.S.

Fluid Inlet Assembly Required, Please See Additional Product Sheet for Specifications

Complies with NACE standard MR-0175/94.
Suitable for H2S service. Other alloys available on request.

WARNING INDICATOR

RETRIEVAL BUSHING

FLUID INLET 1/4" FNPT

MACHINED OPENING FOR FLUID INLET CONNECTION

INLET INJECTION SHAFT 3/8" OD

3/4" NPT TOOL & SAFETY CAP MOUNTING LUG

PATENTED LOCKING COLLET

TEFLON SEAL

1/4" - 20 UPPER BODY SET SCREW

1/4" BLEEDER VALVE

316 STAINLESS STEEL HOUSING

WELDED QUILL STOP

QUILL TIP FLUID OUTLET

"1/2", 3/4", 1", 1 1/2", 2" NPT PIPELINE CONNECTION

"1/2" NPT REQUIRES REDUCED TIP

Manufactured Under One or More U.S. Patents:
5,138,755; 6,357,470 BI; 6,802,455 BI

NOTICE: THIS DOCUMENT IS THE PROPERTY OF ACCURATE TOOL CO. NEITHER THIS DOCUMENT NOR ANY DATA OR INFORMATION HEREON SHALL BE COPIED OR REPRODUCED IN ANY MANNER, LOANED OR OTHERWISE DISPOSED OF, OR USED FOR ANY PURPOSE WHATSOEVER WITHOUT THEIR PRIOR WRITTEN PERMISSION OF ACCURATE TOOL CO. THE BORROW, IN CONSIDERATION OF SUCH LOAN, AGREES TO THE FORGOING CONDITIONS AND TO RETURN THIS DOCUMENT UPON REQUEST.
Model MM-50 Insertable/Retractable Injection/Sampler Quill
Manufactured By Accurate Tool Co.

Maximum Operating Pressure: 5000 psi

Maximum Operating Temperature: 450 F.

(MM-50 HT Available for Higher Temperatures)

Method of Operation: Requires Retractor Tool
- HP Retractor Tool
- EXL Retractor Tool for EXL Models
  (For Shaft Lengths Longer Than 48")

Probe Shaft Diameter: Standard 3/8” O.D.
- Other Sizes Available

Pipeline Connection: *1/2” NPT thru 2” NPT
- Optional Flanged Connection

Seal: Teflon Seal
- Optional Graphoil Seal

Material Construction: 316L S.S.

Fluid Inlet Assembly Required, Please See
Additional Product Sheet for Specifications

Complies with NACE standard MR-0175/94. Suitable for H2S service. Other alloys available on request.

NOTICE: THIS DOCUMENT IS THE PROPERTY OF ACCURATE TOOL CO. NEITHER THIS DOCUMENT NOR ANY DATA OR INFORMATION HEREON SHALL BE COPIED OR REPRODUCED IN ANY MANNER, LOANED OR OTHERWISE DISPOSED OF, OR USED FOR ANY PURPOSE WHAT SO EVER WITHOUT THEIR PRIOR WRITTEN PERMISSION OF ACCURATE TOOL CO. THE BORROW, IN CONSIDERATION OF SUCH LOAN, AGREES TO THE FORGOING CONDITIONS AND TO RETURN THIS DOCUMENT UPON REQUEST.

Manufactured Under One or More U.S Patents:
5,138,755; 6,357,470 BI; 6,802,455 BI
Model RT Series Insertable/Retractable Injection/Sampler Quill
Manufactured By Accurate Tool Co.

Maximum Operating Pressure:
- 3000 psi
- 5000 psi

Maximum Operating Temperature:
450 F. Maximum Temperature

Method of Operation: Integrated Special Tool

Probe Shaft Diameter: Standard 3/8" O.D.

Pipeline Connection: "1/2" NPT thru 2" NPT
- Optional Flanged Connection

Insertion Lengths: 8", 12" and 18" Insertion

Seal: Teflon Seal
- Optional Graphoil Seal

Material Construction: 316L S.S.

Fluid Inlet Assembly Required, Please See Additional Product Sheet for Specifications

Complies with NACE standard MR-0175/94.
Suitable for H2S service. Other alloys available on request.

Manufactured Under One or More U.S Patents:
5,138,755; 6,357,470 BI; 6,802,455 BI