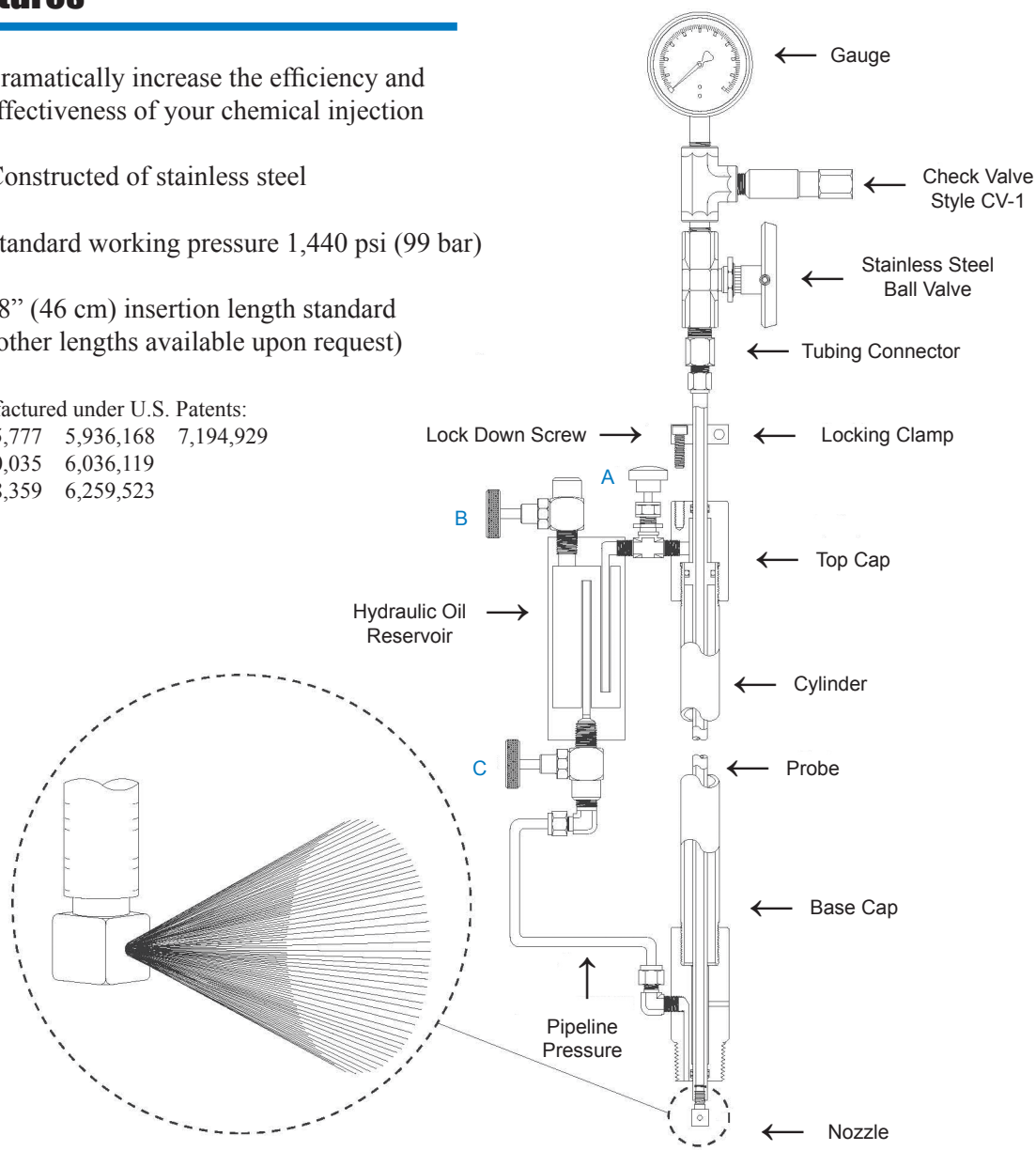
Welker® Automatic Insertion Probe with Injection Nozzle

Style AIP-3MI

Features

- Dramatically increase the efficiency and effectiveness of your chemical injection
- Constructed of stainless steel
- Standard working pressure 1,440 psi (99 bar)
- 18” (46 cm) insertion length standard (other lengths available upon request)

Manufactured under U.S. Patents:
6,085,777 5,936,168 7,194,929
6,120,035 6,036,119
6,338,359 6,259,523



Welker® ... When Excellence Counts!

Welker® Automatic Insertion Probe with Injection Nozzle

General Description

The Welker® Automatic Insertion Probe with the injection nozzle (AIP-3MI) is designed to insert the chemical injection nozzle into a fully pressurized pipeline. For pipeline pigging or for service on the nozzle, the unit can be quickly withdrawn without pipeline operation interruption. The nozzle will disperse the chemical in a more efficient manner than the typical straight tube.

The Welker® AIP-3MI can be used with any chemical injection system. For proper sizing of the nozzle, estimated injection rates should be provided to Welker. The AIP-3MI can be inserted through a 1" full open ball valve. A number of nozzle styles are available and can be sized to meet your specific needs. Line pressure, pump pressure and your gpm needs will assure that we select the correct nozzle for the application (specify insertion length — 18" (46 cm) is standard.)

Installation Instruction

Refer to the diagram on the previous page. Connect the probe to a closed pipeline full opening ball or gate valve. Close the valves "A", "B" and "C", then open the pipeline ball valve. Open valve "C" to put line on the oil reservoir. Now, slowly open valve "A" and the probe will descend. When the probe has reached the proper depth, close valve "A" and tighten the locking clamp on the tubing (use the lock down screw to keep the probe in place). Connect the pump outlet line to the CV-1. Finally, open the ball valve at the top of the probe.

The gauge will serve two purposes: 1) It will indicate pipeline pressure with the probe ball valve open; 2) By pinching the valve, you will be able to see gauge pressure increase when the pump is operating.

Withdrawal Instruction

Close the probe valve and disconnect the pump line. Remove the lock down screw and close valve "C". Bleed all pressure off the oil reservoir with valve "B". Crack valve "A" and the probe will retract.

The most common problem people have with probes happens when they close pipeline valves on the probe. This can make for unnecessary problems.

Performance Specifications*

- **Material:**
  316 stainless steel, Viton® and PTFE
- **Standard Working Pressure:**
  1,440 psi (99 bar)
- **Temperature:**
  -20°F (-29° C) to +250°F (+121° C)
- **Connections:**
  1" and up – flanged or NPT

*Specifications subject to change without notice.
Drawings/Photos may be shown with optional equipment.

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