

Welker[®] Injection Probe

Model IP-1CV



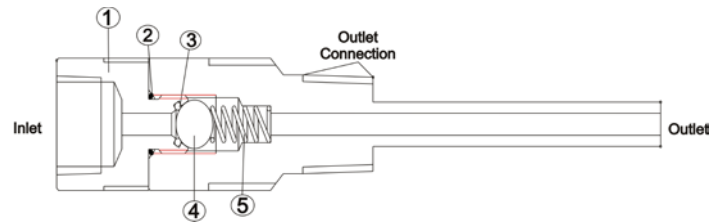
Installation, Operation, and Maintenance Manual

1.1 Product description

The Welker Injection Probe is designed to allow product to be injected through a check valve and into the appropriate outlet. The device has a check valve to limit flow to the outlet only.

Specifications

Materials of Construction	Ceramic, 316 SS, Viton
Outlet Connection	1/2" MNPT (others available)
Inlet Connection	1/2" FNPT (others available)
Maximum Allowable Pressure	2,160 PSI @ -20° F to 100° F (145 bar @ -28° C to 37° C)



Part No.	Description
1	Upper Housing
2	O-Ring
3	O-Ring
4	Ceramic Ball
5	Spring

N NOTE

When sealing fittings with PTFE tape, refer to the proper sealing instructions for the tape used.

1.2 Installation instructions

- 1.2.1 Depressurize the pipeline to prepare for installation.
- 1.2.2 Connect the injection probe into the pipeline.
- 1.2.3 Welker suggests installing an isolation valve in the inlet as a safety precaution. In case of check valve failure, the isolation valve can shut off flow.
- 1.2.4 Connect the output from your injection pump to the inlet of the probe. Installation is now complete.
- 1.2.5 Pressurize the pipeline.
- 1.2.6 Begin operation on the injection pump (*refer to the appropriate pump manual*).

N NOTE

We recommend that the unit have annual maintenance. In some cases, a more frequent schedule may be appropriate. All maintenance should be done on a clean surface.

- 1.3.1 Turn off the injection pump.
- 1.3.2 Depressurize the pipeline.
- 1.3.3 Disconnect the pump from the probe's inlet port.
- 1.3.4 Remove the probe from the pipeline.
- 1.3.5 Unscrew the upper housing (Part 1).
- 1.3.6 Replace the two O-rings (Part 2 and Part 3) on the upper housing.
- 1.3.7 Remove and clean the ball (Part 4) and spring (Part 5). Inspect the ball and spring for scratches. Replace if scratches are present.
- 1.3.8 Reinsert the spring and the ball.
- 1.3.9 Screw the upper housing back onto the probe.
- 1.3.10 Maintenance is now complete. Refer to Section 1.2 for installation.



13839 West Bellfort, Sugar Land, Texas 77498-1671

Phone: (281) 491-2331

Fax: (281) 491-8344

Toll Free: (800) 776-7267

Web Page: www.welkereng.com

© Copyright 2009, Welker, Inc.