



Griffco Valve Inc.
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HIGH PRESSURE INJECTION VALVE Installation and Operation Manual



Installation Instructions:

1. Install the Injection Valve at the injection port so that the quill tip 45 deg inclined edge is opposite the flow in the pipe. This is achieved by tightening the valve all the way, until the arrow on the valve body faces the operator.
2. Use PTFE tape or pipe dope to prevent potential leaks.
3. Do not over tighten.
4. Connect chemical feed line to opposite end. It is recommended to install a union connector for ease of maintenance.

Operation:

Griffco injection valves are threaded into a process pipe or tank to deliver chemical to a desired application point. The integrated quill keeps the chemical off the wall of the tank or pipe and will ensure better mixing of the chemical with the process fluid. This is enhanced by the 45° angle at the quill tip. The ball check in the valve functions as a positive shut-off to ensure the process fluid does not go back up the chemical line.



NOTES:

1. INSTALL WITH BEVEL FACING PROCESS FLOW EXCEPT WHERE THE POSSIBILITY OF CLOGGING EXISTS. THIS WILL MAXIMIZE CHEMICAL DISPERSION.
2. QUILL TIP SHOULD BE AT PIPE CENTER.

Technical Data:

Model :	IVQ - Injection Quill (non-serviceable check valve)
Size:	1/2"
Connections:	1/2" NPT Double Thread (Male)
Maximum Temperature:	400°F (204°C)
Maximum Operating Pressure:	3500 psi (241 bar)
Valve Opening Pressure:	10 psi (0.7 Bar)
Materials of Construction:	
Valve Ball:	316SS, Alloy 20, or Hastelloy C
Spring	Hastelloy C
Valve Body	316SS, Alloy 20, or Hastelloy C

Dimensions:

Size	A	B	C
1/2"	6.5"	4" *	.688"

* Standard length

Product Codes for Ordering:

IVQ □ □ □ □ □ □
 1 2 3 4

1 = Size
050 - 1/2"

2 = Material
S - 316 SS
A - Alloy 20
C - Hastelloy C

3 = Quill Length
Blank - 4" (std)

4 = Options
Blank - 45° Tip (std)

