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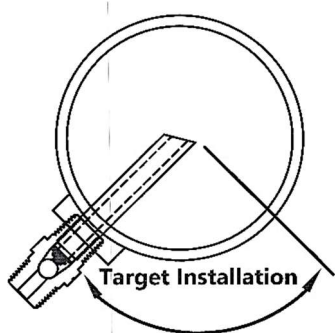
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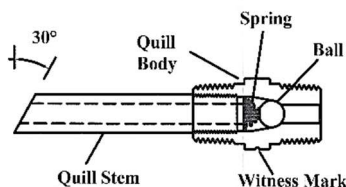
Injection Quill Instruction Sheet

The injection quill is manufactured in several different pipe sizes; standard sizes are ½" NPT, ¾" NPT and 1" NPT (other sizes available upon request). This provides two separate advantages over a simple tap connection into large main pipes, for example;

- The Quill Assembly should be installed so the end is near the center of a large main for more effective chemical dispersion.



Horizontal Pipe Installation



Quill Dimensions



Vertical Pipe Installation

To ensure proper operation, these units should be installed below the horizontal centerline of the main so that their cross-section position in the main will correspond between the 4:00 and 8:00 position below center as shown above.

The installation orientation is important to allow the quill to operate properly. Typically, the chemical being injected is heavier than the process. When the chemical is not pumping, the chemical will stay inside the quill. This prevents the chemical from reacting with the process inside the quill or against the ball check which can cause chemical precipitation. This reaction forms an insoluble solid and heat buildup that can prevent the check from seating properly, causing leaks or getting stuck and interrupting the flow.

	Part Numbers			Check Valve Material		Temperature and Pressure Rating	
	Process Connection Size (MNPT)						
Material	1/2"	3/4"	1"	Ball	Spring	Max Temp	Max Press. (psi)
316 Stainless Steel	QC-316-050	QC-316-075	QC-316-100	316 SS	316 SS	750°F (400°C)	3000
PVC	QC-PVC-050	QC-PVC-075	QC-PVC-100	Ceramic	HAST C	100°F (37°C)	150
CPVC	QC-CPVC-050	QC-CPVC-075	QC-CPVC-100	Ceramic	HAST C	190°F (88°C)	150
Kynar	QC-KY-050	QC-KY-075	QC-KY-100	Ceramic	HAST C	200°F (93°C)	150
Alloy 20	QC-C20-050	QC-C20-075	QC-C20-100	HAST C	HAST C	750°F (400°C)	3000
Hastelloy C 276	QC-Hastelloy-050	QC-Hastelloy-075	QC-Hastelloy-100	HAST C	HAST C	750°F (400°C)	3000
Titanium Gr. 2	QC-Titanium-050	QC-Titanium-075	QC-Titanium-100	HAST C	HAST C	750°F (400°C)	3000