

# PFS Injection Quills



*PFS Injection Quills have been developed to allow chemical injection into the center stream of the flow. This ensures the dispersion of chemical in a more uniform manner, providing for a more homogenous mix in the pipeline.*

***Standard features include:***

- 6 materials of construction
- 2 standard sizes available 6" or 8"
- threaded or socket connections
- built in spring loaded check valve
- pressure range to 1000 PSIG
- temperatures to 260°C (500°F)
- custom materials and sizes available on request

# PFS Injection Quills

## Sizing and Ordering Information

Model	Size (Length)	Body Material	Ball Check Material	Check Spring Material	Pressure* Max. Bar	Temperature Max.
IQ-56-PVC	152mm (6")	PVC	Ceramic	316S/S	10	60°C
IQ-56-CPVC	152mm (6")	CPVC	Ceramic	316S/S	10	98°C
IQ-56-PP	152mm (6")	PP	Ceramic	316S/S	10	90°C
IQ-56-PVDF	152mm (6")	PVDF	Ceramic	316S/S	10	125°C
IQ-56-316SS	152mm (6")	316S/S	316S/S	316S/S	68	260°C
IQ-56-HASTC	152mm (6")	Hastelloy	Hastelloy	Hastelloy	68	260°C
IQ-58-PVC	203mm (8")	PVC	Ceramic	316S/S	10	60°C
IQ-58-CPVC	203mm (8")	CPVC	Ceramic	316S/S	10	98°C
IQ-58-PP	203mm (8")	PP	Ceramic	316S/S	10	90°C
IQ-58-PVDF	203mm (8")	PVDF	Ceramic	316S/S	10	125°C
IQ-58-316SS	203mm (8")	316S/S	316S/S	316S/S	68	260°C
IQ-58-HASTC	203mm (8")	Hastelloy	Hastelloy	Hastelloy	68	260°C

### Notes and Options:

\* Maximum pressure @ 21°C working temperature

For **Hastelloy C springs** suffix model number with "H" for this option (eg IQ-56-PVC-H)

For **Hastelloy C ball check** suffix model number with "I" for this option (eg IQ-56-PVC-I)

For **PVDF ball check** suffix model number with "K" for this option (eg IQ-56-PVC-K)

For **TFE ball check** suffix model number with "T" for this option (eg IQ-56-PVC-T)

**Other material of construction and bubble tight / resilient seat check valves available on request.**

### Capacities at Given Pressure

BAR	KPA	L/Min	L/Hr
1.38	138	3.5	210
2.07	207	4.5	270
2.76	276	5.5	330
3.45	345	7.0	420
4.14	414	8.0	480
4.83	483	9.0	540
5.52	552	9.5	570
6.21	621	10.0	600
6.90	690	10.5	620

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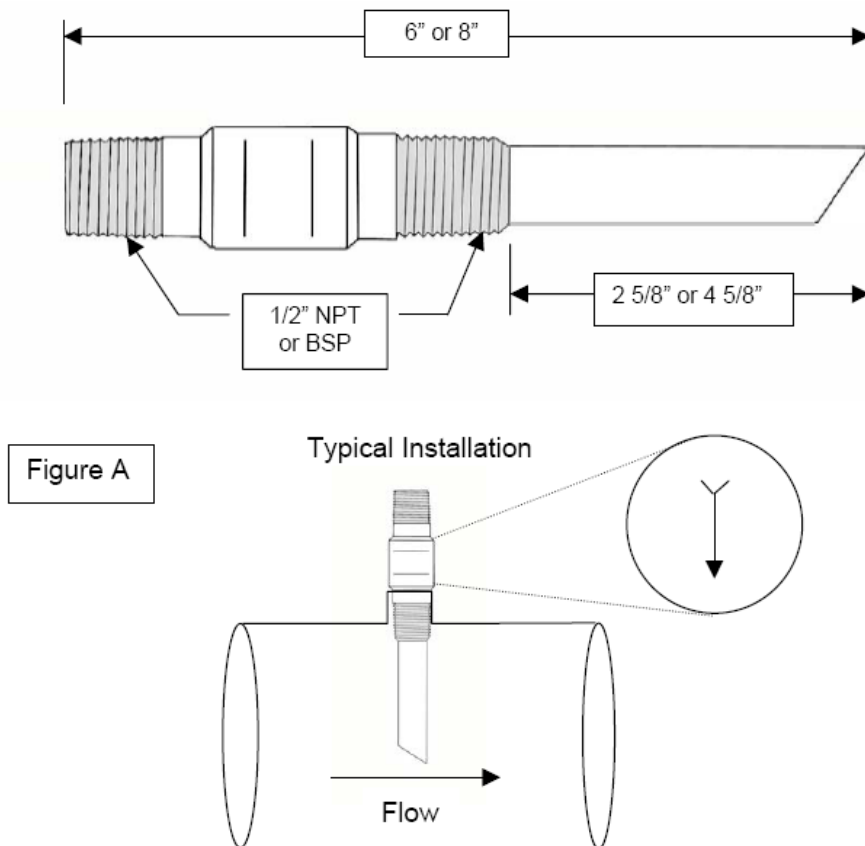
## Metering Pump Injection Quill Instructions

The injection quill is ideal for the injection of chemicals into the centre stream of a process pipeline. This provides for a more homogeneous mix to take place in the pipeline. Each quill has a built-in stainless steel spring-loaded check, to help prevent back siphoning.

The injection quill is available in two sizes, 6" length suitable for 4"-6" pipe diameters and 8" length suitable for 8"-10" pipe diameters. The connection for both sizes is 1/2" NPT or BSP.

Six (6) materials of construction are available that provide compatibility for most chemicals injected. Each quill comes standard with a stainless steel spring, as an option a Hastelloy C spring is available at an extra charge (consult). Hastelloy C units come standard with Hastelloy C spring. The quill may also be ordered without a spring.

Pressure and temperature are dependent on the material of construction and vary from 150 PSIG and 60°C to 3000 PSIG and 260°C.



1. Install injection quill using the appropriate piping compound and Teflon tape.
2. All injection quills come standard spring assisted, it is recommended however if you order a quill without a spring that they be installed in the process line at a 6 o'clock position. This will assist in the check valve seating.
3. 6" length quills are suitable for 4"-6" pipe diameters. Pipe sizes smaller than 4", the quill can be trimmed so that the injection quill is in the centreline of the process pipe. 8" length quills are suitable for 8"-10" pipe diameters.
4. As per the diagram fig. (A) install the injection quill in the process so that the stamped arrow in the body is facing downstream. This positions the angle face of the quill into the process stream, increasing the dispersion of the chemical into the process fluid.
5. An isolation valve installed behind the injection quill is recommended for easy maintenance.