

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"
- 1/2" & 3/4" threaded, socket or flanged connections
- custom materials and sizes available on request
- built in spring loaded check valve
- standard 1/8" orifice discharge and optional 1/4" for higher flow
- pressure range to 3000 PSIG
- temperatures to 260°C (500°F)
- field repairable

For detailed product information visit our website: primaryfluid.com

PFS Injection Quills

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CRN certification available. Contact factory.

Sizing and Ordering Information

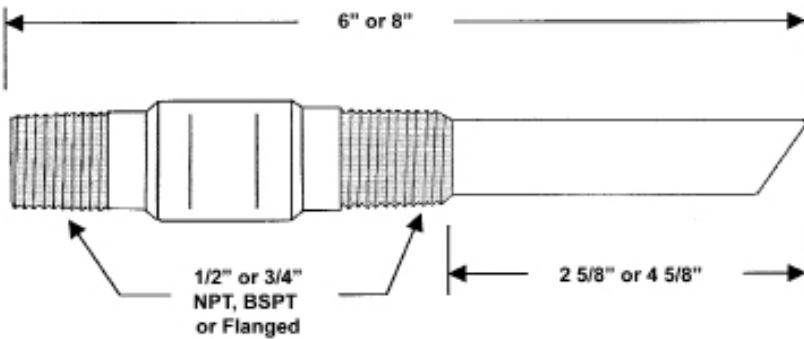
Model**	Size (length)	Body Material	Ball Check Material	Check Spring Material	Pressure* Max. PSIG	Temperature Max.
IQ-56-PVC	6"	PVC	Ceramic	316S/S	150	140°F(60°C)
IQ-56-CPVC	6"	CPVC	Ceramic	316S/S	150	210°F(98°C)
IQ-56-PP	6"	PP	Ceramic	316S/S	150	195°F(90°C)
IQ-56-PVDF	6"	PVDF	Ceramic	316S/S	150	260°F(125°C)
IQ-56-316S/S	6"	316S/S	316S/S	316S/S	3000	500°F(260°C)
IQ-56-HastC-25	6"	Hastelloy	Hastelloy	Hastelloy	3000	500°F(260°C)
IQ-58-PVC	8"	PVC	Ceramic	316S/S	150	140°F(60°C)
IQ-58-CPVC	8"	CPVC	Ceramic	316S/S	150	210°F(98°C)
IQ-58-PP	8"	PP	Ceramic	316S/S	150	195°F(90°C)
IQ-58-PVDF	8"	PVDF	Ceramic	316S/S	150	260°F(125°C)
IQ-58-316S/S	8"	316S/S	316S/S	316S/S	3000	500°F(260°C)
IQ-58-HastC-25	8"	Hastelloy	Hastelloy	Hastelloy	3000	500°F(260°C)

Options

Hastelloy C springs available. Suffix model number with -H for this option (e.g. IQ-56-PVC-H)
Hastelloy C ball check available. Suffix model -I (e.g. IQ-56-PVC-I)
PVDF ball check available. Suffix model -K (e.g. IQ-56-PVC-K)
PTFE ball check available. Suffix model -T (e.g. IQ-56-PVC-T)
Titanium body and springs available. Contact factory
BSPT connection available. Suffix model -B (e.g. IQ-58-PVC-B)
Flanged connection available. Suffix model -F (e.g. IQ-58-PVC-F)
 Other materials and bubble tight/resilient seat check valves available on request.

Notes: * max. pressure @ 70°F(21°C) working temp. ** all available with 3/4" connections (76 & 78)

Dimensional Information

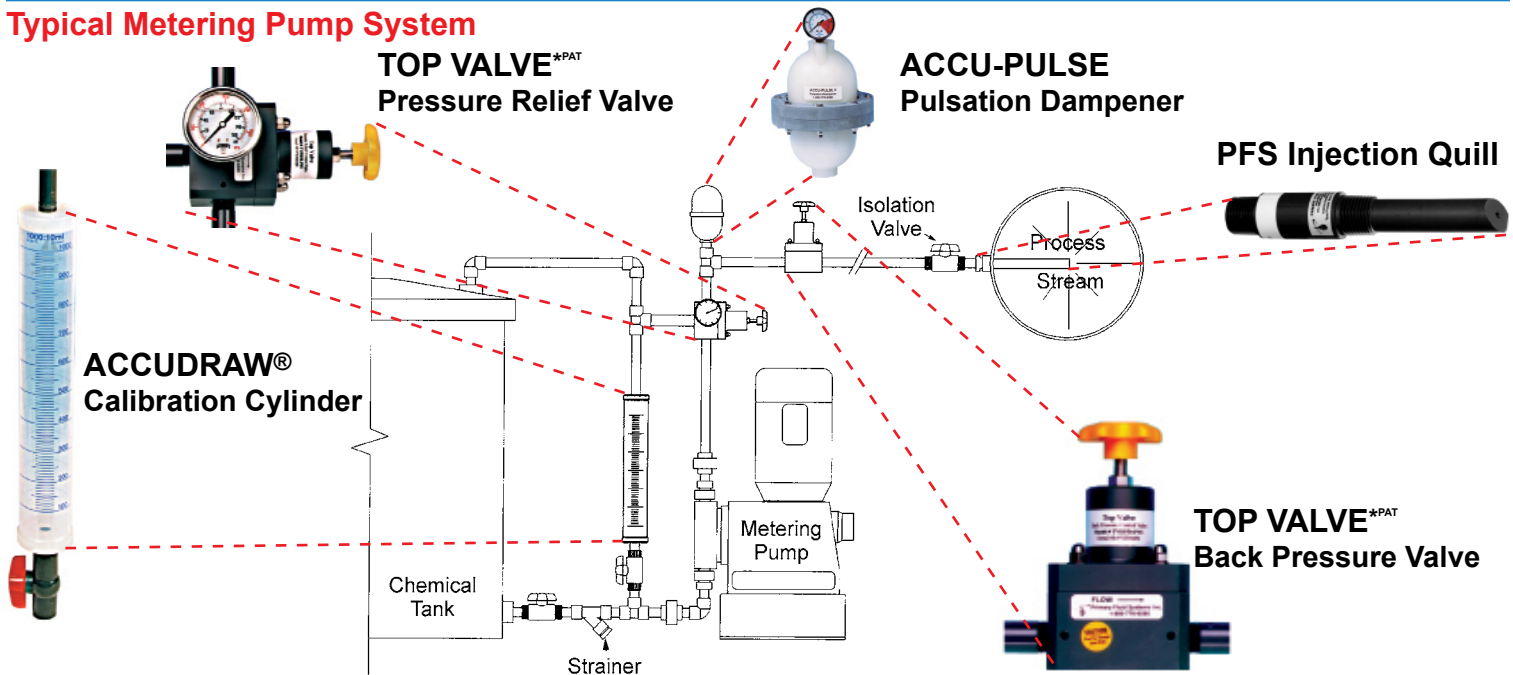


Note: Quills have standard 1/8" discharge orifice for high velocity discharge. Optional 1/4" discharge orifice available for higher capacity flow. Add suffix -25 (e.g. IQ56-PVC-25)


Capacities at Given Pressure (US and Metric)

Pressure		Flow Rate			
psi	kPa	1/8" Bore		1/4" Bore	
		USGPM	LPM	USGPM	LPM
20	138	0.05	0.19	2.62	9.92
30	207	1.25	4.73	3.98	15.07
40	276	1.55	5.87	4.77	18.06
50	345	1.90	7.19	5.59	21.14
60	414	2.20	8.33	6.39	24.19
70	483	2.48	9.39	7.30	27.63
80	552	2.72	10.30	8.10	30.66
90	621	2.97	11.24	8.82	33.39
100	689	3.21	12.15	9.48	35.87

Typical Metering Pump System



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