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:

- Female x Male pipe connections
- 6 materials of construction: PVC, CPVC, PP, PVDF, S/S 316L and Hastelloy C 276
- 2 standard sizes available: 3" or 5" insertion length
- 1/2" NPT or BSPT connections available
- Custom materials and sizes available on request
- Built in spring loaded check valve
- Standard 1/4" orifice discharge 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

PRIMARY FLUID SYSTEMS INC.

Call Toll Free 1-800-776-6580
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Sizing and Ordering Information

Model	Overall Length	Insertion (length)	Body Material	Ball Check Material	Check Spring Material	Pressure* Max. PSIG	Temperature Max.
IQF-53-PVC	**5.5"**	**3"**	**PVC**	**Ceramic**	**Hastelloy**	**150**	**140°F(60°C)**
IQF-53-CPVC	5.5"	3"	CPVC	Ceramic	Hastelloy	150	210°F(98°C)
IQF-53-PP	**5.5"**	**3"**	**PP**	**Ceramic**	**Hastelloy**	**150**	**195°F(90°C)**
IQF-53-PVDF	5.5"	3"	PVDF	Ceramic	Hastelloy	150	260°F(125°C)
IQF-53-316S/S	**5.5"**	**3"**	**316S/S**	**Ceramic**	**Hastelloy**	**3000**	**500°F(260°C)**
IQF-53-HastC	5.5"	3"	Hastelloy	Ceramic	Hastelloy	3000	500°F(260°C)
IQF-55-PVC	**7.5"**	**5"**	**PVC**	**Ceramic**	**Hastelloy**	**150**	**140°F(60°C)**
IQF-55-CPVC	7.5"	5"	CPVC	Ceramic	Hastelloy	150	210°F(98°C)
IQF-55-PP	**7.5"**	**5"**	**PP**	**Ceramic**	**Hastelloy**	**150**	**195°F(90°C)**
IQF-55-PVDF	7.5"	5"	PVDF	Ceramic	Hastelloy	150	260°F(125°C)
IQF-55-316S/S	**7.5"**	**5"**	**316S/S**	**Ceramic**	**Hastelloy**	**3000**	**500°F(260°C)**
IQF-55-HastC**	7.5"	5"	Hastelloy	Ceramic	Hastelloy	3000	500°F(260°C)

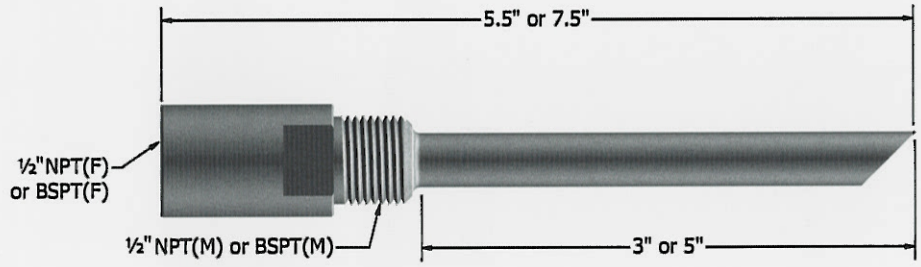
Notes: * max. pressure @ 70°F(21°C) working temp. ** longer insertion lengths available for Hastelloy quills.

Options

Hastelloy C ball check available.
Suffix model -I (e.g. IQF-56-PVC-I)
PVDF ball check available.
Suffix model -K (e.g. IQF-56-PVC-K)
PTFE ball check available
Suffix model -T (e.g. IQF-56-PVC-T)
Titanium body and springs available
Contact factory

Other materials and bubble tight/resilient seat check valves available on request.

Dimensional Information

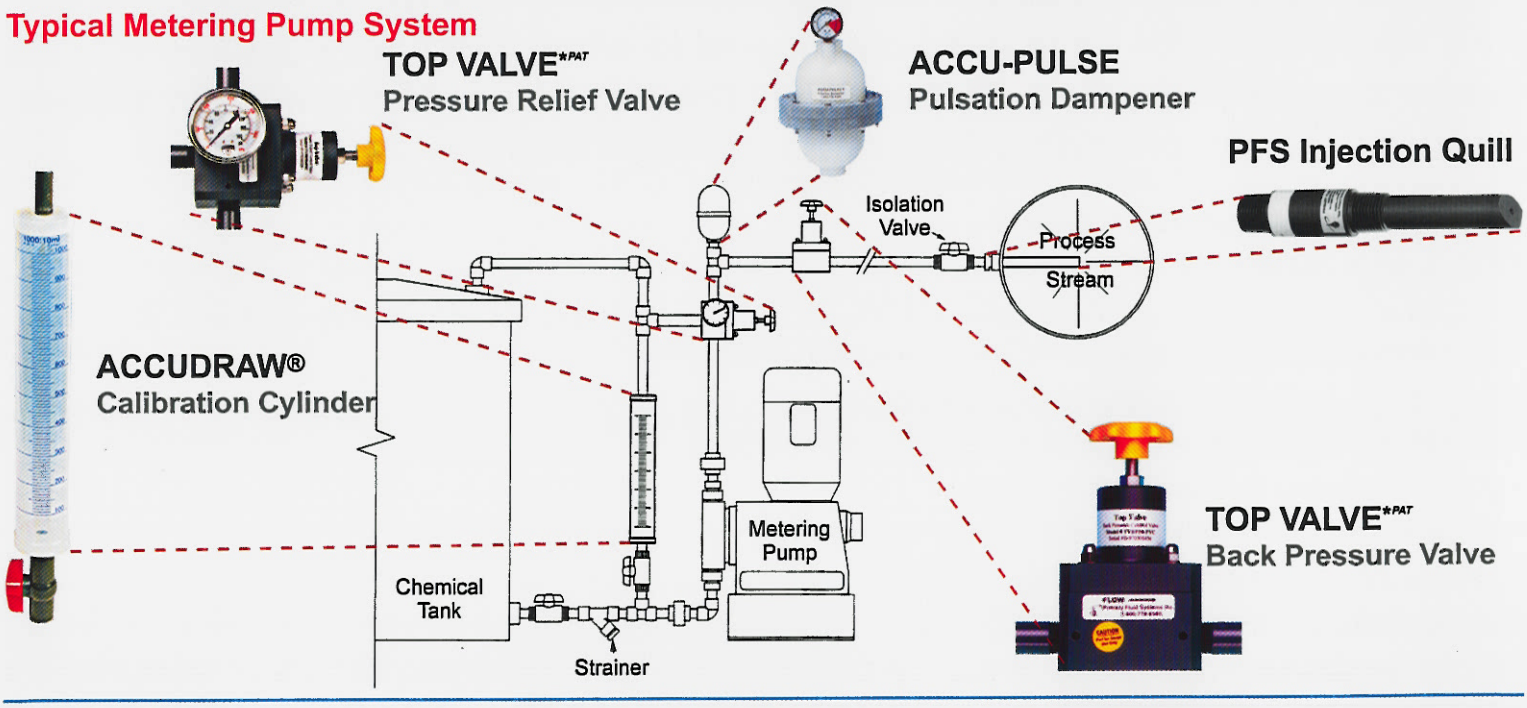


Note: Quills have standard 1/4" discharge orifice for higher capacity flow..

Capacities at Given Pressure (US and Metric)

Pressure		Flow Rate	
psi	kPa	USGPM	LPM
20	138	2.62	9.92
30	207	3.98	15.07
40	276	4.77	18.06
50	345	5.59	21.14
60	414	6.39	24.19
70	483	7.3	27.63
80	552	8.10	30.66
90	621	8.82	33.39
100	689	9.48	35.87

Typical Metering Pump System



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