



Spraying Systems Co.
Experts in Spray Technology



FLOMAX®-S01 STEAM ATOMIZING RETRACTABLE INJECTOR

UNMATCHED INJECTION PRECISION AND PERFORMANCE

There's a new and better approach to neutralizing amine, H2S scavenger and low flow chemical injection. Our FloMax-S01 Steam Atomizing Retractable Injectors provide better performance than quills and single-fluid hydraulic nozzle injectors. In addition, these injectors help reduce operating costs and minimize downtime.




FLOMAX-S01 RETRACTABLE INJECTOR BENEFITS:

- Minimizes manual labor and time required for injector installation and removal
- Improves worker safety – injectors can be retracted easily from a catwalk

FLOMAX-S STEAM ATOMIZING NOZZLE BENEFITS:

- Patent-pending, multi-stage atomization process efficiently creates very small droplets and ensures volatilization and dispersion when the fluid exits the nozzles
- Tight drop size control improves liquid distribution in the process stream
- Controlled atomization ensures consistent injection rates
- Design of internal passages minimizes wear points and extends nozzle life
- Wide range of materials available to match design requirements

TECHNOLOGY COMPARISON

		Small, Consistent Droplet Formation	Consistent Mixing	Consistent Injection Rate	Long Wear Life of Downstream Equipment
	FloMax-S01 Retractable Injector*	✓	✓	✓	✓
	Quills**	Uncontrolled atomization results in wide range of droplet sizes	None; receiving process stream doesn't break up and mix injected fluid	Fluctuating flow	Localized corrosion due to large droplets pooling on pipe walls
	Single Fluid Hydraulic Injector**	Mixing chemical and steam in single fluid nozzle produces larger droplets of varying sizes	None; single fluid nozzle not designed for use with two fluids	Erratic	Localized corrosion due to large droplets pooling on pipe walls

* Operating conditions: Liquid flow rate: 24 gallons per day (91 liters per day); Steam flow rate: 11 lb/hr (5 kg/hr); Steam pressure: 30 psi (2 bar); Gas velocity: 66 ft/s (20 m/s)

** Operating conditions: Liquid flow rate: 24 gallons per day (91 liters per day); Steam flow rate: 6.3 lbs/hr (2.9 kg/hr); Steam pressure: 30 psi (2 bar); Gas velocity: 66 ft/s (20 m/s)



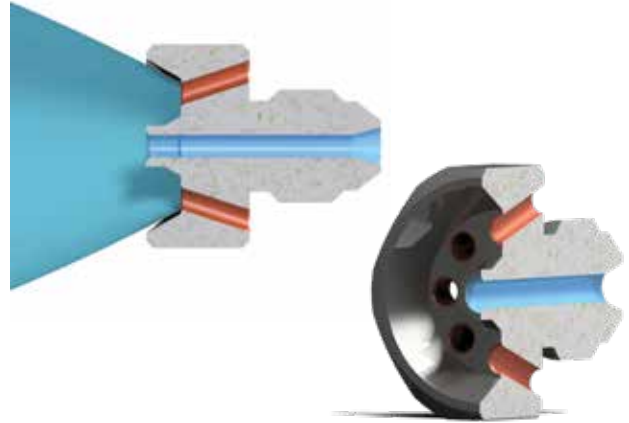
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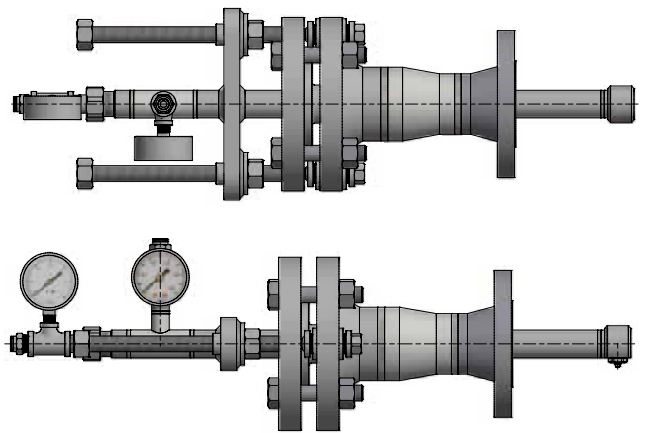
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SPECIFICATIONS

FLOMAX-S NOZZLE	
Liquid flow range:	10 to 380 gallons per day (38 to 1,438 liters per day)
Liquid pressure range:	1 to 60 psi (0.07 to 4.1 bar)
Steam flow range:	8.5 to 35 lb/hr (3.8 to 15.8 kg/hr)
Steam pressure range:	10 to 60 psi (0.7 to 4.1 bar)
Liquid max. free passage diameter:	0.062" (1.6 mm)
Steam max. free passage diameter:	0.058" (1.5 mm)
Spray droplet (Dv0.5):	9-40 microns



FLOMAX-S01 RETRACTABLE INJECTOR	
Injector length:	Up to 48" (1219 mm)
Inlet connections:	Flanged or threaded (NPT or BSPT)
Pipe schedule:	as required per design conduction
Wide choice of packing gland materials	
Retraction process pressure up to	1000 psi (7 bar)
Materials:	Hastelloy®, 276H, C22, 316SS, others
Can be manufactured to	ASME® B31.3 standards



HASTELLOY is a registered trademark of Haynes International, Inc.

IDEAL FOR

- Neutralizing amine injection
- H2S scavenger injection
- Low flow chemical injection



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