



**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

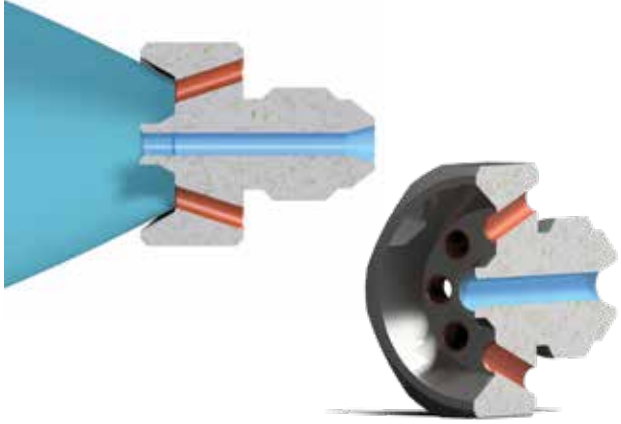
		Small, Consistent Droplet Formation	Consistent Mixing	Consistent Injection Rate	Long Wear Life of Downstream Equipment
	<b>FloMax-S01 Retractable Injector*</b>	✓	✓	✓	✓
	<b>Quills**</b>	Uncontrolled atomization results in wide range of droplet sizes	None; receiving process stream doesn't break up and mix injected fluid	Fluctuating flow	Localized corrosion due to large droplets pooling on pipe walls
	<b>Single Fluid Hydraulic Injector**</b>	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

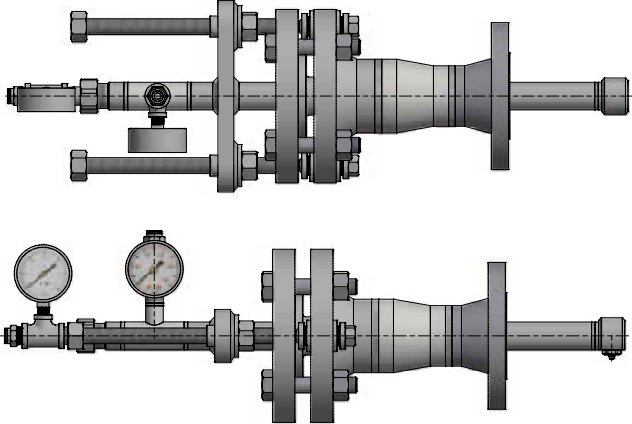
\* Operating conditions: Liquid flow rate: 24 gallons per day (91 liters per day); Steam flow rate: 11 lb/hr (5 kg/hr); Steam pressure: 30 psi (2 bar); Gas velocity: 66 ft/s (20 m/s)

\*\* 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)

# FLOMAX®-S01 STEAM ATOMIZING RETRACTABLE INJECTOR

## SPECIFICATIONS

<b>FLOMAX-S NOZZLE</b>	
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	

<b>FLOMAX-S01 RETRACTABLE INJECTOR</b>	
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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