# KENCO CHEMICAL INJECTORS

**INDUSTRIES SERVED:** Natural Gas Transmission and Distribution • Oil and Gas Production and Refining
Petrochemical • Water Treatment • Fluid Processing • Pulp & Paper Processing

**PATENT NO. 7,137,569**

## KENCO CHEMICAL INJECTORS

### APPLICATION

Kenco chemical injectors are designed to inject and properly atomize corrosive chemicals into the turbulent stream of a process system pipeline. The Kenco chemical injector will minimize the possibility of corrosive chemical build-up on the walls of the pipeline.

### FEATURES

- Patented aspirator tip design on injector disperses chemical evenly into process stream and away from pipe walls
- Check valve in injector eliminates backflow
- Injector is ideal for high pressure applications up to 6000 psig
- Injector has been designed so that it can be mounted in any orientation
- Standard insertion lengths available up to 24" long. Custom sizes also available.
- Injector available in 316 Stainless Steel, Hastelloy C-276, and CPVC
- Ball-check material in 316 Stainless Steel injectors is 316 Stainless Steel and ball-check material in CPVC and Hastelloy injectors is ceramic.
- Ball-check spring material in 316 Stainless Steel and CPVC injectors is Inconel. Ball-check spring material in Hastelloy injectors is Hastelloy.
- Standard Injector chemical feed port is 1/2" NPT and process connection is 1/2" or 3/4" NPT.

### MINI-INJECTOR

- "Mini" injector assembly atomizes chemical in smaller pipelines and/or lower flowrates
- Available in 316 Stainless Steel only
- Standard Injector chemical feed port and process connection is 1/8" or 1/4" NPT

### MODELS KINJ & KINJM *TEMPERATURE & PRESSURE RATINGS*

| Injector Material | Maximum Working Pressure | Maximum Operating Temperature |
|---|---|---|
| 316 SS | 6000 psig | 800°F |
| Hast C–276 | 6000 psig | 800°F |
| CPVC | 340 psig @ 73°F;<br>150 psig @ 150°F | 200°F |

## KENCO RETRACTABLE INJECTORS

### APPLICATION

Kenco retractable injectors allow for injector insertion or removal without interrupting the main process in the pipeline.

### FEATURES

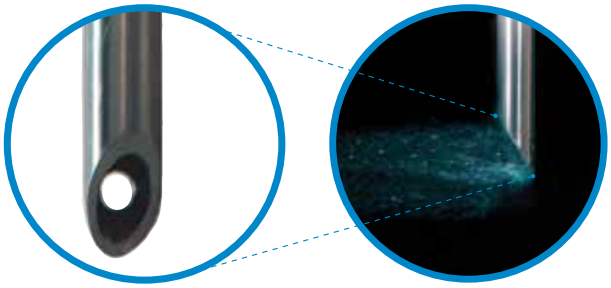
- Patented aspirator tip design on injector disperses chemical evenly into process stream and away from pipe walls
- Ball valve assembly isolates pipeline from injector assembly when injection is not required
- Compression seal holds the assembly from back pressure
- Safety line prevents the injector assembly from being completely withdrawn and protects against blowout
- Standard ball valve assemblies available in 316 Stainless Steel, Alloy 20, CPVC and Brass. Standard Injector Nozzle assemblies available in 316 Stainless Steel, Hastelloy C-276 and CPVC.
- Ball-check material in 316 Stainless Steel injectors is 316 Stainless Steel and ball-check material in CPVC and Hastelloy injectors is ceramic.
- Ball-check spring material in 316 Stainless Steel and CPVC injectors is Inconel. Ball-check spring material in Hastelloy injectors is Hastelloy.
- Optional spring loaded check valve available. Check valve available with body bleed valve.
- Standard Retractable Injector chemical feed port is 1/2" NPT. Process connection is 3/4" NPT.

### MODEL KRINJ *TEMPERATURE & PRESSURE RATINGS*

| Valve Material | Maximum Working Pressure | Maximum Operating Temperature |
|---|---|---|
| Brass | 150 psig | up to 350°F |
| 316 SS | 150 psig | up to 400°F |
| Alloy 20 | 150 psig | up to 400°F |
| CPVC | 150 psig @ 73°F<br>100 psig @ 150°F | up to 180°F |

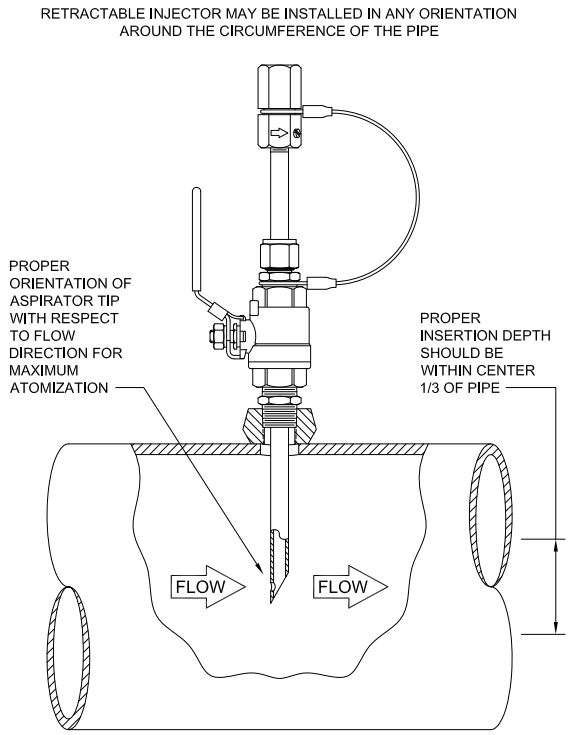
* Note: maximum operating temperature dependent on compression seal material

KENCO Chemical Injectors have a unique design engineered to minimize the possibility of corrosive chemical build-up on the walls of the pipeline.

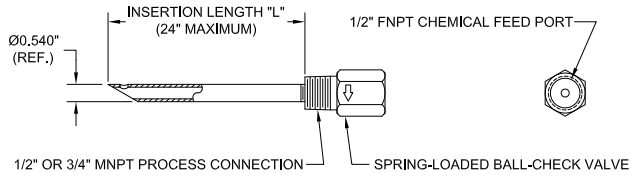


This photograph of a KENCO injector illustrates the misting created by the unique design.

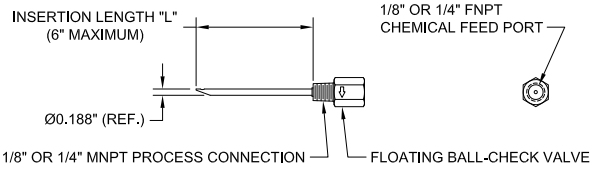
## KRINJ RETRACTABLE INJECTOR TYPICAL USE



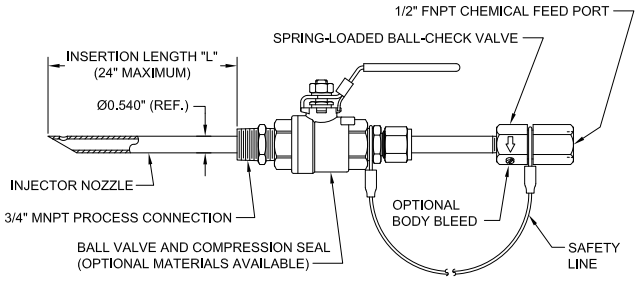

## KINJ INJECTOR




## KINJM MINIATURE INJECTOR




## KRINJ RETRACTABLE INJECTOR W/CHECK VALVE




## KENCO CHEMICAL INJECTORS
### Ordering System

REQUESTED BY: _____ COMPANY: _____

ADDRESS: _____ CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX: _____ EMAIL : _____

**KINJ** — [ ] — [ ] — [ ]

**Injector Style**
KINJ = Standard Injector

**Process Connections**
50 = 1/2" NPT
75 = 3/4" NPT
• Flanged units available, consult factory for options

**Material of Construction**
S6 = 316 Stainless Steel
HC = Hastelloy C-276 w/ceramic ball
CP = CPVC w/ceramic ball

**Insertion Length (inches)**
L3.000 = 3" for 4" to 6" O.D. pipelines
L5.000 = 5" for 8", 10" & 12" O.D. pipelines
L(_) = custom length up to 24";
indicate desired length in box above

**KINJM** — [ ] — **S6** — [ ]

**Injector Style**
KINJM = Miniature Injector

**Inlet/Process Connections**
125 = 1/8" NPT
250 = 1/4" NPT

**Material of Construction**
S6 = 316 Stainless Steel

**Insertion Length (inches)**
L1.875 = 1-7/8" for 1" to 3" pipeline
L(_) = custom length up to 6";
indicate desired length in box above

**KRINJ** — **75** — [ ] — [ ]

**Injector Style**
KRINJ = Retractable Injector

**Process Connections**
75 = 3/4" NPT
• Flanged units available, consult factory for options

**Material of Construction (Nozzle)**
CP = CPVC
S6 = 316 Stainless Steel
HC = Hastelloy C-276

**Insertion Length (inches)**
L10.750 = Brass Valve
L9.000 = Stainless Steel and Alloy 20 Valve
L8.500 = CPVC Valve
L(_) = custom length up to 24";
indicate desired length in box above

[ ] — [ ] — [ ]

**Material of Construction (Valve)**
S6 = 316 Stainless Steel
A20 = Alloy 20
CP = CPVC
B = Brass

**Check Valve**
CVB = Check Valve with Body Bleed
CVN = Check Valve without Body Bleed
NVN = No check valve and no Body Bleed
NVB = No check valve with Body Bleed

**Compression Seal Material**
B = Buna-N
V = Fluorocarbon
A = Aflas
E = Ethylene Propylene
K = Kalrez


**Represented by:**

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