### Mechanical Retractable Injector

**Benefits**

- Ideal for process applications where service interruptions for maintenance are difficult and need to be minimized. Handwheel operation quickly and easily retracts the injector and nozzle for service.
- For applications where downtime is not possible, two mechanical retractable injectors can be used to ensure 100% uptime. When one injector requires maintenance, the second injector is put into service with no process disruption.
- Minimizes manual labor required to install and remove injectors. Handwheel operation is easy and requires just one operator.
- Improves worker safety. Workers can retract the lance easily from a catwalk without having to climb into potentially unsafe positions.
- Optional gate valve ensures the watertightness of the vessel during retraction and insertion processes.
- Optional steam purge can extend the life of the injector.
- Full range of testing available including ultrasonic, radiographic, liquid penetrant, hardness, hydrostatic, spray and flow.

### Specifications

<table>
<thead>
<tr>
<th>Use with gas atomizing or hydraulic nozzles</th>
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<tbody>
<tr>
<td>Injector length: Up to 80&quot; (2032 mm)</td>
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<tr>
<td>Inlet connections: Flanged or threaded (NPT or BSPT)</td>
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<tr>
<td>Pipe schedule: Up to SCH 80 for gas atomizing nozzles; up to SCH XX for hydraulic nozzles</td>
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<tr>
<td>Wide choice of packing gland materials</td>
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<tr>
<td>Retraction process pressure up to 250 psig (17.2 barg) and higher depending on temperature</td>
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<tr>
<td>Installed pressure rating up to 1,200 psig (82.7 barg)</td>
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<td>Class flange: Up to #600</td>
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<tr>
<td>Material options: 316, 310 and 330 stainless steel, INCONEL® 600, 601 and 825, HASTELLOY® C and C22</td>
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<tr>
<td>Can be manufactured to ASME® B31 standards</td>
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</table>

### Typical Applications

Ideal for use in:

- Pressurized vessels. Ensures the vessel will not be open to the outside environment when injector is removed.
- Depressurized vessels. Prevents outside contaminants from entering the vessel when injector is removed.
- Applications when the vessel needs to be segregated as much as possible from the outside atmosphere.
- Glycol injection for corrosion inhibition.
- Wash water injection for sour gas treatment.
- Selective Catalytic Reduction (SCR) NOx control.
- Chemical injection.
- Desuperheating steam.
**Mechanical Retractable Injector**

**Dimensions**

**Mechanical Retractable Injector**

- **Standard Length:** 36" (914.4 mm)
  - Up to 80" (2032 mm)

**Description**

- **Step 0:** Lance in working position.
- **Step 1:** Packing flange screws loosened. Flange bolts removed.
- **Step 2:** Turn wheel and retract injector.
- **Step 3:** Gate valve closed. Injector can be removed.

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**Spraying Systems Co.**

**Experts in Spray Technology**

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