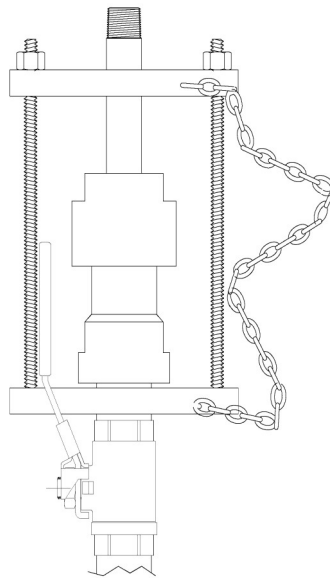
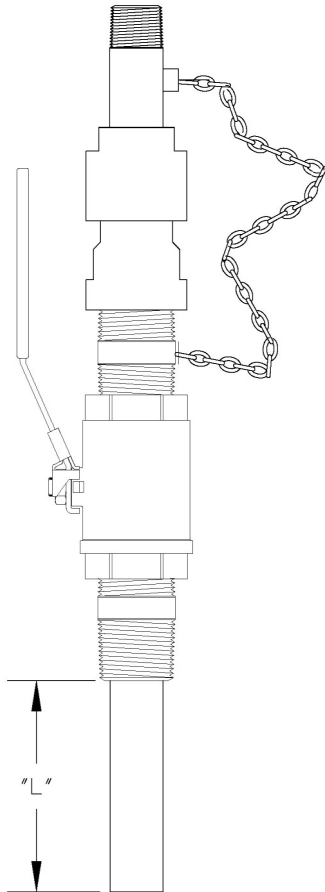


**3/4" - 2" THREADED RETRACTABLE INJECTORS  
DATA SHEET (CS SERIES)  
DESIGNED FOR FULL FLOW INJECTION FROM INJECTOR TIP**



CS-150 thru CS-200  
(1-1/2" to 2")  
use an additional bolting  
system to withstand the  
hydraulic forces of the

**SPECIFICATIONS**

Solution tubes (quill) available in:

- PVC & CPVC
- Stainless Steel
- Hastelloy C-276
- Titanium

Valve body & gland fitting available in:

- Brass
- PVC & CPVC
- Stainless Steel

High Strength Stainless Steel Chain. Dual chains secure position of quill and allow for removal of quill. Retractable injectors over 1" include bolt assembly to hold solution tube in place.

150 psi (1034 kPa) design pressure standard  
up to 1" (CS-100) size. Maximum pressure recommended for 2" is 50 psi.<sup>1</sup>  
(Larger diameter and higher pressure versions are available).

While we can supply injectors with integrated check valves, in most cases we recommend retractable injectors without integrated check valves for maximum versatility. External check valves allow for the highest quality choices for your specific chemical applications.

Flexible hose assemblies are available.

Flanged retractable injectors are available.

Model	Threaded Connection	Solution Tube Nominal Dia.	Inlet Connection
Series	npt		npt
CS075	3/4	3/8"	3/8"
CS100	1	1/2"	1/2"
CS150	1-1/2	1"	1
CS200 (see note 1)	2	1-1/2"	1-1/2"

<sup>1</sup> Be aware of the large hydraulic forces that can exist with a larger diameter injection quill. With a 2" Retractable Injector, at 50 psi, there is 150 lbs. of force pushing against this quill. Injury or death could occur from these quills. When installing or retracting the quill, use appropriate equipment based upon your application to remove or install the quill for these loads.



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**MODEL NUMBER  
EXAMPLE "CS075BP6F"**

**CS 075 B P 6 F**

PORT SIZE (NPT)	
3/4"	075
1"	100
1-1/2"	150
2"	200

VALVE MAT'L	
BRASS	B
STAINLESS STEEL	S
PVC	P
CPVC	C

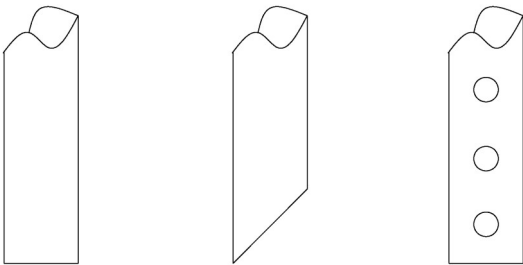
SOLUTION TUBE MAT'L	
PVC	P
STAINLESS STEEL	S
KYNAR (Kynar solution tube not available on CS075 [3/4" size])	K
HASTELLOY C-276	H
TITANIUM	T
CPVC	C

END STYLE-- SOLUTION TUBE	
F	STANDARD - FLAT
B	BEVELED 45°

LENGTH - SOLUTION TUBE "L"	
2	2"
4	4"
6	6"
8	8"
LONGER LENGTHS AVAILABLE	

\*PVC & KYNAR SOLUTION TUBES LONGER THAN 6" ARE NOT RECOMMENDED UNLESS THERE IS ADDITIONAL SUPPORT. CONTACT INYO PROCESS FOR MORE DETAIL.

**SOLUTION TUBE -END STYLE**



"F" STANDARD FLAT END      "B" BEVELED 45°      DIFFUSER STYLE (see CSD data sheet)

SOLUTION TUBE -END STYLE STANDARD FLAT STYLE AND BEVELED END STYLE ARE SHOWN ON THIS DATA SHEET.

DIFFUSER STYLE (CSD-SERIES) SHOWN ON A SEPARATE DATA SHEET.



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# CHEMICAL INJECTION ASSEMBLY SPECIFICATION



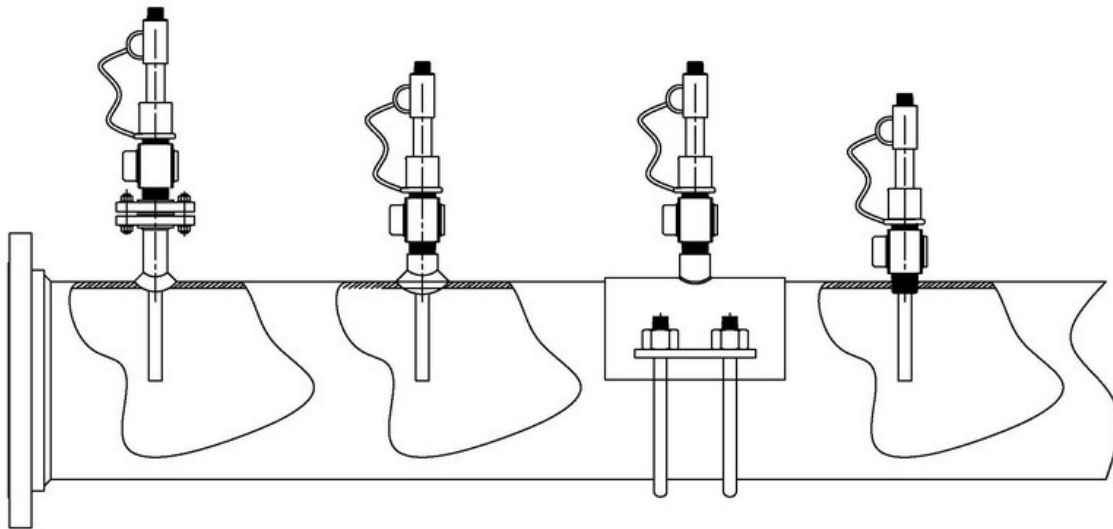
Typical Specification (go to [www.inyoprocess.com](http://www.inyoprocess.com) for additional specifications)

## Chemical Injection Assembly

1. Rating 150 psi.
2. Type: Insertion type injection quill.
3. Connection: Connect to process pipe using service saddle and ball valve.
4. Construction:

Injection assembly shall come complete with ball valve, solution tube, solution tube adapter, packing nut, safety chain and threaded inlet connection. Solution tube shall be for sufficient length to extend into the process pipe to between one third and one half the pipeline diameter. Injector should allow for rodding in place. Connection must include an acceptable safety device to prevent accidental withdrawal of injection solution tube while under pressure and/or surge conditions. All wetted components shall be compatible with the chemical services. Manufacturer: Inyo Process or preapproved by engineer equal.

## TYPICAL RETRACTABLE INJECTOR INSTALLATIONS



Flanged Installation  
Drill & Tap blind  
flange for Retractable  
Injector. Maximum  
versatility.

Welded Coupling  
Installation for  
Retractable Injector.  
Weld half coupling or  
threadolet to pipe  
wall.

Tapping & Service  
Saddle for  
Retractable Injector.

Retractable Injectors  
up to 2" size can be  
threaded directly into  
the pipe depending  
upon wall thickness.  
Consult with your  
pipe supplier for  
recommendations.

Retractable injectors over CS 075 size may require a mechanical lift for insertion of the quill due to the hydraulic pressure in the line. Recommendations for insertion jacks and/or equipment set-up may be obtained from Inyo Process.

