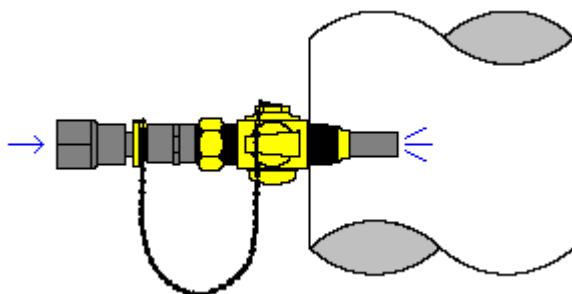




## Corporation Stops



### Application Information:

The use of a corporation stop is needed when the process water pipe cannot be drained at the diffuser to allow for maintenance and / or cleaning. With a corporation stop, the solution diffuser can be removed while the process water pipe remains full and pressurized.

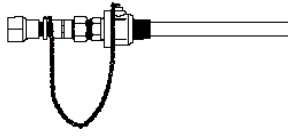
### Sizes Offered by Hydro Instruments:     **$\frac{3}{4}$ " , 1" , 1 ½" and 2"**

The size of the corporation stop assembly identifies the diameter of the ball valves male NPT pipe threads. These threads are used to affix the assembly to the process water pipe. Therefore, the thread tap needed for installation would be the same size.

Hydro Instruments offers a variety of options for the corporation stops solution inlet connection. Choose from several sizes of threaded, socket or hose connections.

**Note:** When determining which size is appropriate, it is important to realize that the diameter of the solution tube (or diffuser) is smaller than the diameter of the male threads on the ball valve. This solution tube is always schedule 80 pipe.

**Ex:** The 1" Corporation Stop has a ½" schedule 80 solution tube.



## Hydro Order Numbers

<u>Size:</u>	<u>Description:</u>	<u>Order Number:</u>
<b>3/4" Assembly</b>	- PVC Wetted Parts (Standard)	CS-075-PVC
	- CPVC Wetted Parts	CS-075-CPVC
<b>1" Assembly</b>	- PVC Wetted Parts (Standard)	CS-111-PVC
	- CPVC Wetted Parts	CS-111-CPVC
	- Stainless Steel Wetted Parts	CS-111-SS *
<b>1 1/2" Assembly</b>	- PVC Wetted Parts (Standard)	CS-113-PVC
	- CPVC Wetted Parts	CS-113-CPVC
	- Stainless Steel Wetted Parts	CS-113-SS *
<b>2" Assembly</b>	- PVC Wetted Parts	CS-479-PVC
	- CPVC Wetted Parts	CS-479-CPVC

### Non-Metallic Corporation Stops - PVC or CPVC Ball Valve - Capture Nut, Sleeve & Ring are PVDF (Kynar)

<b>3/4" Assembly</b>	- PVC Wetted Parts	CSP-075-PVC
	- CPVC Wetted Parts	CSPC-075-CPVC
<b>1" Assembly</b>	- PVC Wetted Parts	CSP-111-PVC
	- CPVC Wetted Parts	CSPC-111-CPVC
<b>1 1/2" Assembly</b>	- PVC Wetted Parts	CSP-113-PVC
	- CPVC Wetted Parts	CSPC-113-CPVC

**Note:** Please specify desired inlet connection when ordering. Several sizes of NPT thread are available as well as socket connections. Hose adapters are also available for PVC assemblies:

**\* Stainless Steel assemblies come with the following connections only:**

1" Assembly – Available with 1" FNPT inlet connection only.

1 1/2" Assembly – Available with 1 1/4" FNPT inlet connection only.

Phone: 1(215) 453-3102  
 Toll Free: 1(888) 38-HYDRO  
 Fax: 1(215) 453-3106

Website: [www.hydroinstruments.com](http://www.hydroinstruments.com)  
 Email: [sales@hydroinstruments.com](mailto:sales@hydroinstruments.com)

## Materials of Construction

Hydro Instruments offers several options to ensure the highest level of chemical resistance for different applications.

**Solution-Wetted Parts** - These are the parts of the assembly, which will come in full contact with the chemical solution being injected. Hydro offers all sizes with PVC or CPVC solution-wetted parts.

*These Parts Include: Inlet Connection Fitting, Pipe Nipple, Adapter Coupling and Solution Tube*

Stainless Steel is also available for the 1" and 1-1/2" sizes.

**Process-Wetted Parts** - These are the parts of the assembly, which will come in contact with the process water. There is little or no contact between these parts and the chemical solution being injected. Hydro offers all sizes with Brass process-wetted parts (standard).

*These Parts Include: Ball Valve, Sleeve, Capture Nut and O-rings*

**Note:** In general, chemicals present in the process water tend to be of a very low concentration. Because of this, chemical resistance is typically not of great concern for the process-wetted parts. Brass is most commonly used for process-wetted parts (such as the ball valve). For instances where Brass is unacceptable, Hydro offers the 3/4", 1" and 1-1/2" sizes in a non-metallic design, which incorporates a PVC or CPVC ball valve and PVDF (Kynar) process-wetted parts (Sleeve and Capture Nut).

**Note:** The use of PVC or CPVC ball valves is not recommended when process line pressure exceeds 200 PSI (assuming temperature is below 100 F).

### Quick Reference Chart for Solution-Wetted Material Selection

<b>Chemical Being Injected</b>	<b>Resistant Solution-Wetted Parts</b>
Ammonia	PVC to 110° F / CPVC to 160° F / Stainless Steel to 200° F
Chlorine (Hypochlorous Acid)	PVC to 150° F / CPVC to 180° F
Ferric Chloride	PVC to 150° F / CPVC to 180° F
Sodium Bisulfate	PVC to 140° F / CPVC to 180° F / Stainless Steel to 110° F
Sodium Bisulfite	PVC to 140° F / CPVC to 180° F / Stainless Steel to 110° F
Sodium Hypo Chlorite (Hypochlorous Acid)	PVC to 150° F / CPVC to 180° F / Stainless Steel to 125° F
Sulfur Dioxide (Sulfurous Acid)	PVC to 145° F / CPVC to 180° F / Stainless Steel to 125° F
Petroleum	Stainless Steel to 300° F
<b>Other Chemical Solutions</b>	<b>Please Consult Hydro Instruments</b>

For any questions related to solution tube flow capacity, temperature, pressure or friction loss, please call Hydro Instruments.

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