

## Hydraulic Concentrate Control Valve

### Description

The standard hydraulic actuated valve assembly consists of a factory assembled and tested quarter turn full port ball valve to which a hydraulic actuator has been attached. The ball valve has a bronze body with 316 stainless steel ball and stem, or is of all stainless steel construction. Valve seats are glass-reinforced TFE. Inlet and outlet threads are female NPT and flanges are ANSI Class 150. All valves are rated 600 psi WOG. Stainless steel flanged valves are rated 285 psi WOG.

The hydraulic actuator is mounted directly to the ball valve using a mounting bracket. The housing of the actuator has a corrosion resistant exterior with a two-part epoxy coating providing extra protection against aggressive environments. The interior has a long life epoxy or of PTFE finish protecting all body parts against wear and corrosion. The hydraulic actuator is equipped with a visual valve position indicator and has the capability for manual override using a free handle, secured to the valve body with a length of chain. Water to drive the valve open is fed to the hydraulic actuator through 1/4-inch to 1/2-inch pipe or tubing. A connection from the sprinkler system is usually made from a normally unpressurized port, such as the water motor alarm line on the alarm or deluge valve to power the hydraulic actuator. The water inlet to the hydraulic actuator is provided with a "Y" strainer and shut-off valve to allow depressurizing and resetting of the valve after use. In the event electric operation is required or preferred, a solenoid release is installed in the water supply line to the actuator, which will, on system actuation, allow water to flow into the actuator body and open the valve.

### Features

- (6) Six different sizes available.
- Normal operating pressure range - 40 to 120 psi (2.8 to 8.3 bar). (See Note 1)
- Maximum actuator overload pressure 150 psi (10.3 bar). (See Note 1)
- Durable epoxy finish.
- Corrosion resistant alloy case.
- Actuator has easy stop adjustments at each end of stroke for accurate seating of the ball.



### Application

The CHEMGUARD hydraulic concentrate control valve is designed for use with either a bladder tank or a balanced pressure proportioning system. The valve is used to automatically open the line supplying foam concentrate to a ratio controller. Except for those valves ordered with an electric solenoid, electrical power is not required for operation, only water pressure from a system that has been activated.

### Ordering Information

Model	Description
2005	1" Hydraulic Act. Ball Valve, bronze threaded valve
2006	1" Hydraulic Act. Ball Valve, stainless steel flanged valve
3004	1.25" Hydraulic Act. Ball Valve, bronze threaded valve
4004	1.5" Hydraulic Act. Ball Valve, bronze threaded valve
4005	1.5" Hydraulic Act. Ball Valve, stainless steel flanged valve
5004	2" Hydraulic Act. Ball Valve, bronze threaded valve
5005	2" Hydraulic Act. Ball Valve, stainless steel flanged valve
6004	2.5" Hydraulic Act. Ball Valve, bronze threaded valve
6005	2.5" Hydraulic Act. Ball Valve, stainless steel flanged valve
7004	3" Hydraulic Act. Ball Valve, bronze threaded valve
7005	3" Hydraulic Act. Ball Valve, stainless steel flanged valve

#### Option:

For solenoid direct mounted on actuator assembly add the following to part number:

- S24 for 24V DC solenoid
- S120 for 120V AC solenoid

For solenoid sold separately use part number:

- 7000 for 24V DC solenoid
- 7002 for 120V AC solenoid

For water regulator sold separately use part number:

- 7001

## General Specifications

Part No.	Valve Size	End Connection	Actuator	Valve Length - A	
				in.	mm
2005	1"	Threaded, NPT	059-100	3.37	85.60
2006	1"	SS RF Flanged, (ANSI, 150#)	059-100	5.00	127.00
3004	1.25	Threaded, NPT	059-100	4.00	101.60
4004	1.5"	Threaded, NPT	079-100	4.37	111.00
4005	1.5"	SS RF Flanged, (ANSI, 150#)	079-100	6.50	165.10
5004	2"	Threaded, NPT	079-100	4.68	118.87
5005	2"	SS RF Flanged, (ANSI, 150#)	079-100	7.00	177.80
6004	2.5"	Threaded, NPT	099-100	6.50	165.10
6005	2.5"	SS RF Flanged, (ANSI, 150#)	099-100	7.50	190.50
7004	3"	Threaded, NPT	099-100	6.75	171.45
7005	3"	SS RF Flanged, (ANSI, 150#)	099-100	8.00	203.20

**NOTE:**

If normal water supply pressure to actuator operating the valve is above 120 psi (8.3 bar), a water regulator (Part Number 7001) is recommended to reduce actuator inlet pressure so that it does not exceed 120 psi (8.3 bar). Excessive water inlet pressure to the actuator can cause damage to the valve stem.

