

HYDRAULIC CONCENTRATE BALL VALVE

HARDWARE



Features

Completely self-contained unit

Use with SOLBERG Fluoro-free, AFFF or Alcohol Type Concentrates (ATC™)

Operates with water only

Threaded or flange connection ends

Description

SOLBERG® Hydraulic Concentrate Ball Valves come in standard sizes ranging from 1.0" to 2.5" (DN25-DN65) to match the concentrate inlet thread (or flange) size on SOLBERG Proportioners and Inline Balanced Pressure Proportioner (ILBP) assemblies*.

Each ball valve consists of a factory assembled and tested stainless steel or bronze ball valve, stainless steel hydraulic actuator, and mounting kit attaching the actuator to the ball valve. The actuator has a position indicator for manual reset.

The actuator's internal mechanisms are designed to be compatible for use with pressurized water, which is used as the means of actuation. To pressurize the actuator, a water line is commonly run from the alarm trim of the sprinkler valve.

For foam concentrate lines, the ball valve is in a normally closed position and is hydraulically opened for system use. Caution should be taken to ensure that the proper pressure sensing port is utilized on the actuator to drive the valve to the open position.

The hydraulic concentrate ball valve can be used with any type foam-water closed-head, sprinkler system (wet pipe, dry pipe, pre-action), as well as open head deluge systems.

Actuators are sized to operate the valve with a minimum pressure of 30 psi (2 bar). The pressure sensing line to the actuator should be a minimum 0.25" (6 mm) pipe or alternate 0.375" (9.5 mm) tubing (actual connection to the actuator is 0.125" NPT). Solberg Technical Services should be consulted for applications where the water pressure potential could be lower.

The maximum recommended water pressure to the actuator is 160 psi (11 bar). If potentially higher water pressures are encountered, an available 0.25" (6 mm) Pressure Reducing Valve (PRV) should be installed in the line to the actuator.



Application

The SOLBERG Hydraulic Concentrate Ball Valve is designed for use in either a SOLBERG bladder tank system or in an Inline Balanced Pressure Proportioning (ILBP) system*. The valve is used to automatically open the line supplying foam concentrate to the foam proportioner and requires no electrical power—operating solely by the pressure of the inlet water supply.

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Specifications

The SOLBERG Hydraulic Concentrate Ball Valve shall consist of various hardware components that have been factory assembled and tested including:

- Stainless steel or bronze ball valve with mounting pad designed for a maximum of 600 psi (41 bar) Water Oil Gas (WOG).
- Ball valve shall be fitted with a stainless steel ball, stem and packing nut. Valve seats shall be of RPTFE material and stuffing box ring.

- Hydraulic actuator is approved by the manufacturer for using water as the medium to operate. The actuator shall have a position indicator and have the capability for manual override. The actuator shall be designed to operate the valve with a minimum of 30 psi (2 bar) and maximum 160 psi (11 bar) water pressure and shall contain no external moving parts which could cause fouling of adjacent equipment components, injury to personnel, misalignment

problems common to external linkage systems, or potential for disengagement caused by tampering.

- Mounting kit shall securely attach the hydraulic actuator to the ball valve.

Certifications

FM Approved per Approval Standard 5130 (*see FM Approval Guide).

Valve Size Required

PROPORTIONER SIZE	BLADDER TANK SYSTEM	PUMP SYSTEM (ILBP)
2.0" (DN50)	1.0" (DN25)	1.0" (DN25)
2.5" (DN65)	1.0" (DN25)	1.0" (DN25)
3.0" (DN80)	1.25" (DN32)	1.25" (DN32)
4.0" (DN100)	1.5" (DN40)	1.5" (DN40)
6.0" (DN150)	2.0" (DN50)	2.0" (DN50)
8.0" (DN200)	2.5" (DN65)	2.5" (DN65)

Ordering Information

HYDRAULIC CONCENTRATE BALL VALVES		FACE TO FACE VALVE LENGTH		APPROXIMATE SHIPPING WEIGHT	
PART NO.	DESCRIPTION	in	mm	lb	kg
30330	Hydraulic Concentrate Ball Valve, Brass Threaded, 1.0" NPT	3.26	82.80	13	5
30331	Hydraulic Concentrate Ball Valve, Brass Threaded, 1.25" NPT	3.82	97.02	14	6
30332	Hydraulic Concentrate Ball Valve, Brass Threaded, 1.5" NPT	4.29	108.96	15	7
30333	Hydraulic Concentrate Ball Valve, Brass Threaded, 2.0" NPT	5.08	129.03	17	8
30334	Hydraulic Concentrate Ball Valve, Brass Threaded, 2.5" NPT	6.56	160.62	17	8
30335	Hydraulic Concentrate Ball Valve, Stainless Steel Flanged, 1.0" NPT	5.00	127.00	14	6
30336	Hydraulic Concentrate Ball Valve, Stainless Steel Flanged, 1.5" NPT	6.50	165.10	26	12
30337	Hydraulic Concentrate Ball Valve, Stainless Steel Flanged, 2.0" NPT	7.00	177.80	36	16
30338	Hydraulic Concentrate Ball Valve, Stainless Steel Flanged, 3.0" NPT†	7.99	203.00	85	39

† Not an FM Approved Component



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