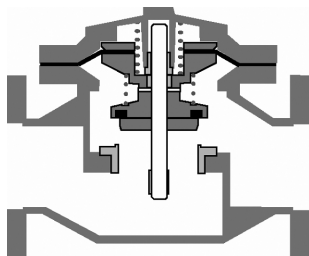


The 65SC/65SCA is full port valve equipped with a built in lift check feature to prevent backflow. When equipped with a variety of pilots and accessories the valve performs a wide range of automatic fluid control, while closing rapidly on reversal of pressure to prevent backflow.

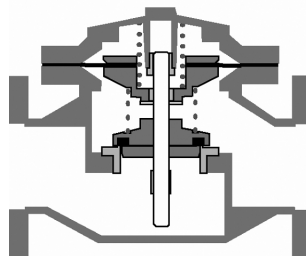
## SERIES FEATURES

- ▶ Operates automatically off line pressure.
- ▶ Heavy-duty, nylon-reinforced diaphragm isolates top chamber operating pressure from bottom chamber line pressure.
- ▶ Rectangular-shaped, soft seat seal provides drip-tight Class VI closure.
- ▶ Diaphragm assembly guided top and bottom
- ▶ Throttling seat retainer for flow and pressure stability.
- ▶ Easily maintained without removal from the line.
- ▶ Diaphragm replaced without removing internal stem assembly.
- ▶ Replaceable seat ring.
- ▶ Alignment pins assure proper reassembly after maintenance.
- ▶ Center-tapped bonnet facilitates installation of position indicator or valve-actuated switches.
- ▶ Ductile iron and steel valves are epoxy-coated inside and out, for maximum corrosion protection.
- ▶ Valves are factory tested.
- ▶ Valves are serial numbered and registered to facilitate replacement parts and factory support.
- ▶ Allows valve to close instantaneously upon pressure reversal, eliminating reverse flow.
- ▶ Split spool design.
- ▶ Lift check can be added as a feature to existing valves by replacing spool assembly.
- ▶ Valve must be mounted with stem in vertical position.

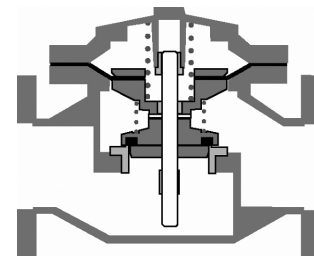
## OPERATION



Valve inlet pressure is greater than valve outlet pressure. Pilot system controls valve to open.



Valve inlet pressure is less than valve outlet pressure. The lift check (lower spool assembly) drops immediately to prevent reverse flow. The valve is closed and flow stops.



The upper spool assembly drops. The valve is now ready for normal forward flow operation.

# Model 65SC/65SCA



## SIZES

GLOBE/ANGLE

Screwed Ends: 2"-3"

Grooved Ends: 2"-6" (globe)

1-1/2"-4" (angle)

Flanged Ends: 2"-16", 24" (globe);

2"-16" (angle)

## FLUID OPERATING TEMPERATURE

RANGE (Valve Elastomers)

EPDM 32° F to 230°F\*

## MATERIALS

Consult factory for others.

**Body/Bonnet:** Ductile Iron (epoxy coated), Carbon Steel (epoxy coated), Stainless Steel, low-lead Bronze, Others available (consult factory)

**Seat Ring:** low-lead Bronze, Stainless Steel

**Stem:** Stainless Steel, Monel

**Spring:** Stainless Steel

**Diaphragm:** EPDM\*

**Seat Disc:** EPDM\*

**Tubing & Fittings:** Copper/Brass, Stainless Steel

\*Others available upon request.

\*\*Valves 1-1/4" through 24" are certified to NSF/ANSI 372. Valves 4" through 24" are also certified to NSF/ANSI 61-G.

## SPECIFICATIONS (Typical Water Application)

The 65SC lift check basic valve shall open when inlet pressure exceeds outlet pressure, as controlled by the appropriate pilot system. It shall close the valve immediately to prevent backflow regardless of the position of the upper spool/diaphragm assembly.

### DESIGN

The 65SC lift check basic valve will be a single-seated, line pressure operated, diaphragm actuated, pilot controlled globe valve, and shall contain an internal lift check feature. The valve shall seal by means of a corrosion-resistant seat and a resilient, rectangular seat disc. These, and other parts, shall be replaceable without removing the valve from the line. The stem of the main valve shall be guided top and bottom by integral bushings. Alignment of the body, bonnet, and diaphragm assembly shall be by precision dowel pins. The diaphragm shall not be used as a seating surface, nor shall the pistons be used as an operating means. The valve shall be operationally and hydrostatically tested prior to shipment.

### MATERIALS OF CONSTRUCTION

The main valve body shall be Ductile Iron per ASTM A536, Grade 65-45-12. All ferrous surfaces shall be coated with 4 mils of epoxy. The main valve seat ring shall be low-lead Bronze. Elastomers (diaphragms, resilient seats and O-rings) shall be EPDM.

### OPERATING CONDITIONS

The 65SC lift check basic valve shall be dictated by the system and the model the 65SC lift check valve basic valve is being applied to.

### ACCEPTABLE PRODUCTS

The 65SC lift check basic valve shall be the main valve on a functional OCV <size>, <Model>, <globe pattern, angle pattern>, with <150# flanged, 300# flanged, threaded, grooved> end connections, as manufactured by OCV Control Valves, Tulsa, Oklahoma, USA.

### U.S. DIMENSIONS - INCHES

DIM	END CONN.	2	2 1/2	3	4	6	8	10	12	14	16	24
A	SCREWED	9 7/8	10 1/2	13	--	--	--	--	--	--	--	--
	GROOVED	9 7/8	10 1/2	13	15 1/4	20	--	--	--	--	--	--
	150# FLGD	9 3/8	10 1/2	12	15	17 3/4	25 3/8	29 3/4	34	39	40 3/8	62
	300# FLGD	9 7/8	11 1/8	12 3/4	15 5/8	18 5/8	26 3/8	31 1/8	35 1/2	40 1/2	42	63 3/4
B	SCREWED	1 11/16	1 7/8	2 1/4	--	--	--	--	--	--	--	--
	GROOVED	1 3/16	1 7/16	1 3/4	2 1/4	--	--	--	--	--	--	--
	150# FLGD	3	3 1/2	3 3/4	4 1/2	5 1/2	6 3/4	8	9 1/2	10 5/8	11 3/4	16
	300# FLGD	3 1/4	3 3/4	4 1/8	5	6 1/4	7 1/2	8 3/4	10 1/4	11 1/2	12 3/4	18
C ANGLE	SCREWED	4 3/4	6	6 1/2	--	--	--	--	--	--	--	--
	GROOVED	4 3/4	6	6 1/2	7 5/8	--	--	--	--	--	--	--
	150# FLGD	4 3/4	6	6	7 1/2	10	12 11/16	14 7/8	17	--	20 13/16	--
	300# FLGD	5	6 3/8	6 3/8	7 13/16	10 1/2	13 3/16	15 9/16	17 3/4	--	21 5/8	--
D ANGLE	SCREWED	3 7/8	4	4 1/2	--	--	--	--	--	--	--	--
	GROOVED	3 7/8	4	4 1/2	5 5/8	--	--	--	--	--	--	--
	150# FLGD	3 7/8	4	4	5 1/2	6	8	11 3/8	11	--	15 11/16	--
	300# FLGD	4 1/8	4 3/8	4 3/8	5 13/16	6 1/2	8 1/2	12 1/16	11 3/4	--	16 1/2	--
E	ALL	6	7	6 1/2	8	10	11 7/8	15 3/8	17	18	19	34
F	ALL	3 7/8	3 7/8	3 7/8	3 7/8	3 7/8	6 3/8	6 3/8	6 3/8	6 3/8	6 3/8	8
H	ALL	11	11	11	12	13	14	17	18	20	20	28 1/2

\*GROOVED END NOT AVAILABLE IN 1 1/4"

Lift check valves should be installed in the horizontal position to ensure proper function. Valve stem must be vertical.

A routine inspection & maintenance program should be established and conducted yearly by a qualified technician. Consult our factory @ **1-888-628-8258** for parts and service.

### How to order your Model 65SC/65SCA valve

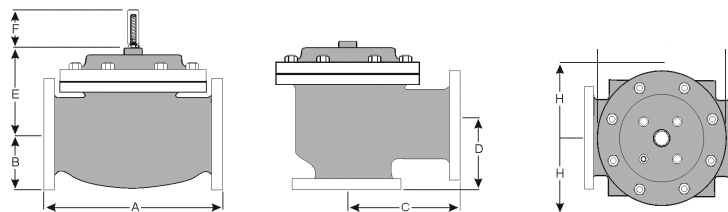
When Ordering please provide:

Fluid to be controlled - Model Number - Size,

Globe or Angle - End Connection - Body Material

Trim Material - Special Requirements /

Installation Requirements



Represented by:



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email: sales@controlvalves.com • website: www.controlvalves.com