



▲ Model 74FC

SERIES FEATURES

- ▶ UL Listed for deluge service in globe pattern, sizes 3" (DN80) through 10" (DN250)
- ▶ Large supply drain port to drain inlet (STD) and outlet (optional), per UL 260
- ▶ For operation via electric solenoid, dry pilot or manual activation
- ▶ One piece actuation design provides for an unobstructed flow passage with minimal maintenance
- ▶ Unique oval design optimizes both flow capacity and control while minimizing head loss
- ▶ Diaphragm design provides resistance to cavitation, erosion, and ensures smooth flow without turbulence or noise
- ▶ External resetting without opening any covers or repositioning of clappers or latch mechanisms
- ▶ Coating and material options to provide superior protection against seawater, brackish water supplies and other abrasive fluids
- ▶ Can be installed vertically or horizontally
- ▶ Accurately controlled closing and opening at all flows with drip-tight sealing
- ▶ Stable and accurate control during shut-off and regulation provides versatile range ability and low flow control
- ▶ Easy inline maintenance is provided by top entry design

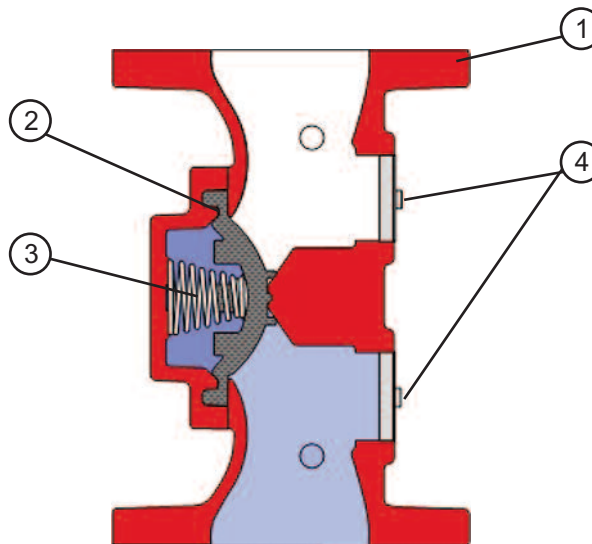
OPERATION

The 74FC is used in fire protection systems, such as deluge, pre-action, foam-water, and other special applications. The 74FC is an on/off elastomeric, normally closed valve. When properly equipped, it automatically opens to admit water through the main line when bonnet pressure is released and closes again when the bonnet is re-pressurized. Re-pressurizing the bonnet chamber resets the valve, providing an easy reset of the fire protection system without the use of a cover to manually reposition a clapper or latch mechanism.

SCHEMATIC

COMPONENTS

- 1.) **Model 74FC Basic Control Valve**, a UL Listed, diaphragm seated, pilot controlled, elastomeric valve.
- 2.) **Diaphragm**, one-piece elastomeric device.
- 3.) **Spring**, gives closing bias.
- 4.) **Drain ports**, to drain inlet and outlet piping.



FLOW CHARACTERISTICS

flow rate at maximum velocity = 25 fps (sizes 3" - 10")

VALVE SIZE	3"	4"	6"	8"	10"
FLOW @ 25ft/sec	575	1,000	2,250	3,900	6,125

Model 74FC



SIZES

GLOBE - 3", 4", 6", 8", 10"

FLUID OPERATING TEMPERATURE RANGE

Buna-N 32°F to 180°F* (0°C to 82.22°C*)

EPDM 32°F to 230°F* (0°C to 110°C*)

MATERIALS Consult factory for others.

Body/Bonnet:

Ductile Iron - epoxy coated (standard)

Cast Steel - epoxy coated

Stainless Steel

Nickel-Aluminum Bronze

Spring:

Stainless Steel

Diaphragm:

Nylon Reinforced Buna-N*

Nylon Reinforced EPDM*

MAX WORKING PRESSURE: (at 100°F/37.78°C)

250 psi

*Others available upon request

SPECIFICATIONS

The deluge valve shall function to admit water through the main line when the bonnet pressure is released.

DESIGN

The deluge valve shall be a line pressure operated, sealing-diaphragm seated, elastomeric globe valve. The valve shall seal by a single diaphragm to metal seat. No other elastomers shall be used internally. No pistons or spools shall be used as an operating means. Internal parts shall be replaceable without removing the valve from the line.

MATERIALS OF CONSTRUCTION

The main valve body and bonnet shall be Ductile Iron (or other; reference materials chart). All ferrous surfaces shall be coated with 4 mils of epoxy followed by a coat of fire red enamel paint. The epoxy coating on the 74FC provides corrosion resistance and extended valve life. Special considerations should be made for deluge valves being used in seawater or brackish water supply systems. The end user and system technical expert should consult factory to ensure optimized valve protection.

AVAILABLE PRODUCTS

The deluge valve shall be a Model 74FC, UL Listed, as designed by OCV Control Valves, Tulsa, OK, USA.

INSTALLATION NOTE

Failure to install and maintain the 74FC deluge valve in compliance with OCV procedures and standards described in the operation and maintenance manual as well as the applicable standards of the National Fire Protection Association and other appropriate authorities may impair the valve's performance.

US DIMENSIONS - INCHES

		3"	4"	6"	8"	10"
A	150#	10 1/8	12 19/32	16 11/32	19 11/16	23 13/16
	300#	10 11/16	12 19/32	16 11/32	19 11/16	23 13/16
	SE	10 1/16	X	X	X	X
	Grooved	9 13/16	12 19/32	17 7/32	X	X
E	ALL	2 7/8	3 9/16	5 1/4	4 3/4	8 1/2
F	ALL	3 7/8	3 7/8	3 7/8	6 3/8	6 3/8
H	ALL	11	12	13	14	17

METRIC DIMENSIONS - MILLIMETERS

		DN80	DN100	DN150	DN200	DN250
A	150#	257	320	415	500	605
	300#	272	320	415	500	605
	SE	255	X	X	X	X
	Grooved	250	320	437	X	X
E	ALL	73	90	133	121	216
F	ALL	98	98	98	162	162
H	ALL	279	305	330	356	432

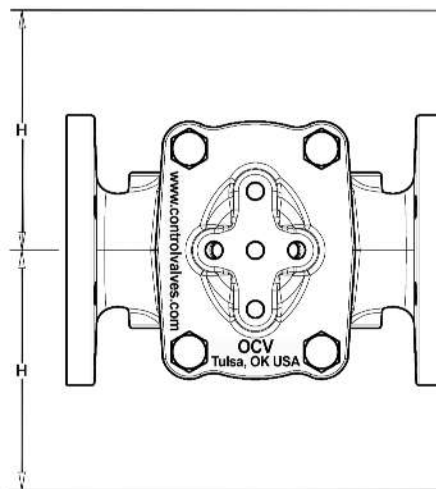
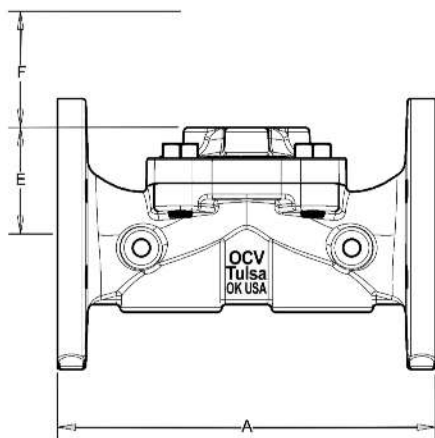
OCV deluge valves are UL Listed for mounting in the horizontal or vertical position. Space should be taken into consideration when mounting valves and their pilot systems.

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 74FC valve

When Ordering please provide:

Series Number - Valve size - Globe (consult factory for Angle) - Flanged 150# or 300# ANSI - Trim Material - Special needs / or Installation Requirements



Represented by:

QUALITY SYSTEM
REGISTERED TO
ISO 9001

TOLL FREE 1.888.628.8258 • phone: (918)627.1942 • fax: (918)622.8916 • 7400 East 42nd Place, Tulsa, Oklahoma 74145
email: sales@controlvalves.com • website: www.controlvalves.com