

# **Model F49BR / F49BRG**

# Fire Powerball Butterfly Valve

#### **Application**

Zurn Model F49BR / F49BRG Fire Powerball Butterfly sprinkler control valves provide for system shutoff to facilitate repair and maintenance. Fire Powerball Butterflies are operated with a slow closing 1/4 turn anti-water hammer valve. The valve should always be in the open position when the system is active. Tamper switches signal movement of the valve from the full open position to an alarm control panel, and to auxiliary equipment such as an indicating light or audible alarm in the area of the valve installation.

#### **Standards Compliance**

- UL® Listed
- · C-UL®
- · FM® Approved

## **Materials**

Main body Bronze ASTM 584 C83600 304 Stainless Steel Disc ASTM A216 WCB Handwheel ASTM D2000 Viton Seat

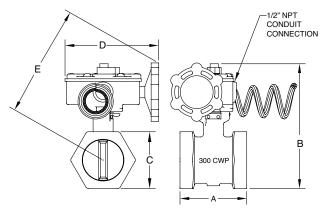
Indicator Powder Metal FD0205 95HT

Gearbox Housing

and Cover Brass ASTM B16 36000

# **Features**

1", 1-1/4", 1-1/2", 2", 2 1/2" Sizes: Maximum working water pressure 300 PSI Slow opening valve 1/4 turn anti-water hammer valve Sprinkler system deactivation tamper switches



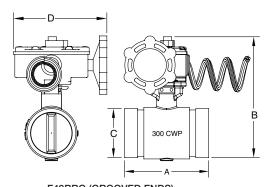
F49BR (THREADED ENDS) SIZE: 1", 1-1/4", 1-1/2", 2", 2-1/2"

112-F49BR

2-F49BRG

#### Wiring

The tamper has two switches: Switch 1 has dual leads on the terminals for connection to the supervisory circuit of a listed system alarm control panel. Switch 2 has a single lead and is used for connection to auxiliary equipment.



F49BRG (GROOVED ENDS) SIZE: 1-1/4", 1-1/2", 2", 2-1/2"

# Dimensions & Weights (do not include pkg.)

MODEL	DIMENSIONS (approximate)											
MODEL	Α		В		С		D		E Radius of Swing		WEIGHT	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs	kg
1-F49BR	2 1/8	54	4 1/4	107	1 5/8	40	4 5/8	118	5	127	3	1.4
114-F49BR	2 5/8	67	4 1/8	106	2	49	4 5/8	118	5	127	4	1.8
112-F49BR	2 7/8	73	4 3/4	121	2 3/4	70	4 5/8	118	5 1/4	133	4	1.8
2-F49BR	3 1/4	83	5	125	3 3/8	87	4 5/8	118	5 1/2	140	5	2.3
212-F49BR	4 1/2	114	5	125	3 3/8	87	4 5/8	118	6	152	7	3.2
114-F49BRG	3 7/8	98	4 3/8	111	1 5/8	42	4 5/8	118	n/a	n/a	4	1.8
112-F49BRG	4	102	4 1/2	114	2	48	4 5/8	118	n/a	n/a	4	1.8
2-F49BRG	4	104	4 7/8	122	2 3/8	60	4 5/8	118	n/a	n/a	5	2.3
212-F49BRG	4 1/2	114	5 1/4	132	2 7/8	73	4 5/8	118	n/a	n/a	6	2.7

Zurn Industries, LLC | Wilkins

1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766

In Canada | Zurn Industries Limited

7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216 www.zurn.com

Rev. B Date: 11/19 Document No.GV-F49BR Product No. Model F49BR

#### **Installation Instructions**

- 1. Installation must comply with NFPA 13 and NFPA 7
- The valve can be installed in any orientation in a piping system with standard ASME B1.20.1 NPT or standard roll or cut grooved pipe.
- 3. When threading to pipe, apply adequate pipe sealants, use a wrench to clamp on the hexagon end of the valve.
- The valves are intended for use with ANSI B36.10 Schedule 40 and/or Schedule 80 pipe, sizes 1", 1-1/4", 1-1/2", 2", and 2-1/2".
- 5. All unused wires must be capped with wire nuts and placed in a junction box.
- A No. 14 green wire is fixed inside the switch housing as a ground.
- All connections need to be reviewed and approved by the authority having jurisdiction.

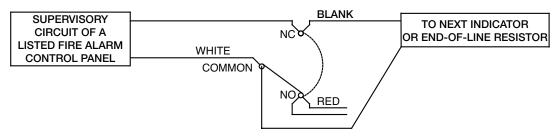
#### **Wiring Instructions**

The tamper has two switches: Switch 1 has dual leads on the terminals for connection to the supervisory circuit of a listed system alarm control panel. Switch 2 has a single lead and is used for connection to auxiliary equipment. All unused wires must be capped with wire nuts and placed in a junction box. A No. 14 green wire is fixed inside the switch housing as a ground. All connections need to be reviewed and approved by the authority having jurisdiction.

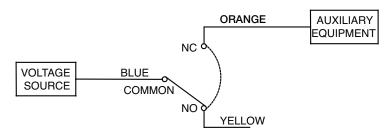
# WIRING DIAGRAM

## SWITCH SHOWN POSITION WITH VALVE IN FULL OPEN

SWITCH 1: DUAL LEADS SOLDERED TO SWITCH TABS



### SWITCH 2: SINGLE LEADS SOLDERED TO SWITCH TABS



Green wire is provided as ground for the switch housing. Switch rating: 10 Amps-115 VAC-60Hz, 0.5 Amps/28 VDC

