



# Model ZWFR

## Freeze Relief Valve

### Application

Designed to prevent freeze damage to backflow preventers installed above ground in geographical regions subject to occasional freezing. The model ZWFR senses water temperature and opens at 35°F to discharge near freezing water from the backflow device and draw warmer supply water through the valve. The model ZWFR closes when water temperature reaches 40°F.

### Standards Compliance

- IAPMO® LISTED - IGC 163-2001r1

### Materials

Body	Cast Bronze, ASTM B 584
O-rings	Buna Nitrile (FDA approved)
Spring	Stainless steel, 300 series
Internals	Brass, ASTM B16

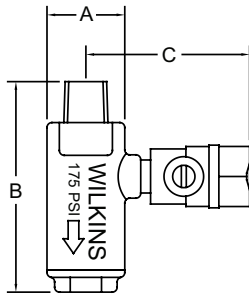
### Features

Sizes: 1/4"

Maximum working water pressure	175 PSI
Maximum working water temperature	140°F
Inlet connection	1/4" MNPT
Nominal opening temperature	35°F
Nominal closing temperature	40°F
Test cock	1/8" MNPT X 1/4" FNPT

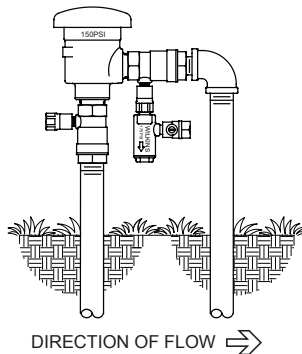
### Dimensions & Weights (do not include pkg.)

PART NUMBER	DIMENSIONS (approximate)								WEIGHT	
	INLET SIZE	A		B		C				
		in	mm	in.	mm	in.	mm	lb.	kg	
14-ZWFR	1/4 NPT	1	24	2 37/64	65.3	2	50.1	0.5	.23	



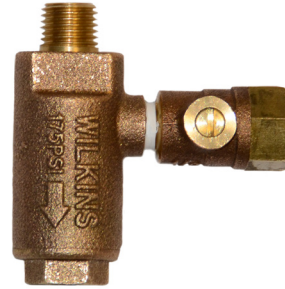
### Typical Installation

Model 720A W/ZWFR



### Specifications

The Freeze Relief Valve shall be rated for 175 PSI. The body shall be cast bronze and the internal spring shall be 300 series stainless steel. The valve shall include a test cock and open at 35°F and close at 40°F. The Freeze Relief Valve shall be a ZURN WILKINS Model ZWFR.



### Typical Installation

The Model ZWFR should be installed on the downstream test cock or downstream attached piping of any backflow device installed above ground where freezing is a concern.

**NOTICE:** If the Model ZWFR is installed on a test cock, the test cock must be left in the open position to allow the ZWFR to function properly.

The device is best suited to be installed in the vertical down position, but may also be installed at any orientation up to horizontal. Orientations above horizontal may cause an ice dam during operation and impair valve function.

The device is not intended to replace the standard winterization process.

**WARNING:** Under freezing conditions the Model ZWFR will discharge water from the outlet port. Provisions must be made to insure that discharge will not damage surrounding property or equipment.

### Flow Characteristics

