



# Model ZW4104SS

## Pressure-Tru™ Automatic Fire Control Valve

### Application

The Pressure-Tru™ ZW4104SS Series Pressure Reducing Valve is listed as a floor control valve, an indicating valve, and a check valve in automatic sprinkler systems as well as a standpipe valve for CLASS II systems. Regulates pressure under both flow and no-flow conditions. The valve has a listed supervisory switch built in. Suitable for indoor / outdoor use. Tamper resistant housing can be rotated for easy wiring switch rated 3 amps @ 125 VAC. Normally open contacts are standard.

### Standards Compliance

- UL® Listed
- C-UL® Listed
- California State Fire Marshall Listed

### Features

Sizes: 1 1/2"

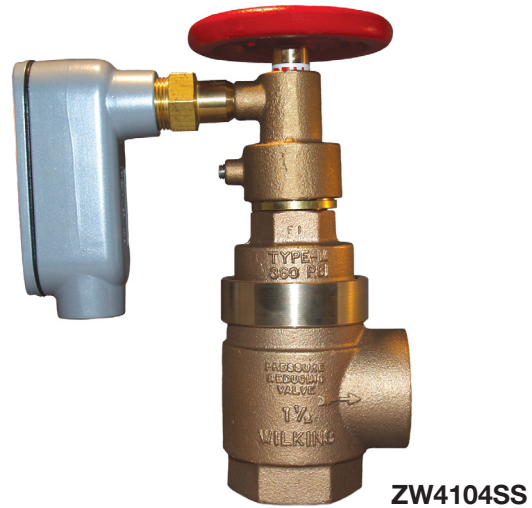
Maximum inlet pressure 400 psi

End connections  
 FNPT ANSI B1.20.1  
 Grooved AWWA C606

Factory Set

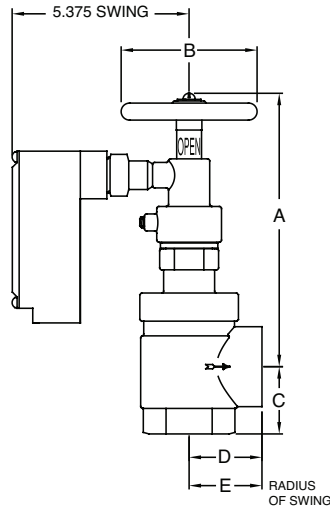
### Material

Castings/internals Cast bronze ASTM B 584  
 Elastomers Buna Nitrile (FDA approved)  
 EPDM (FDA approved)

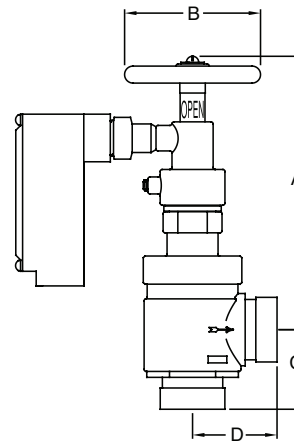


### Options

- (Suffixes can be combined)
- ZW4104SS - angle type valve
- G - with grooved inlet and outlet connections
- CH - with rough chrome finish



ZW4104SS



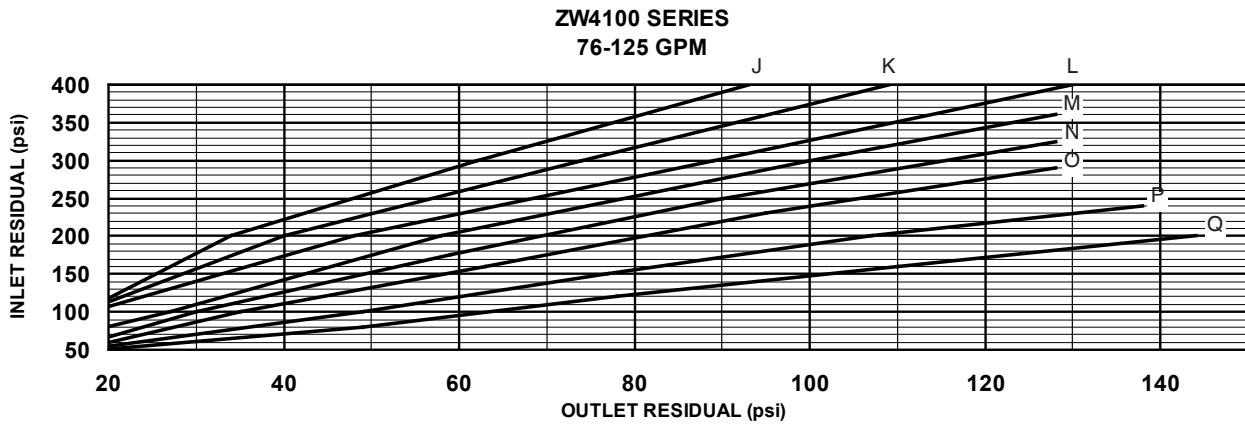
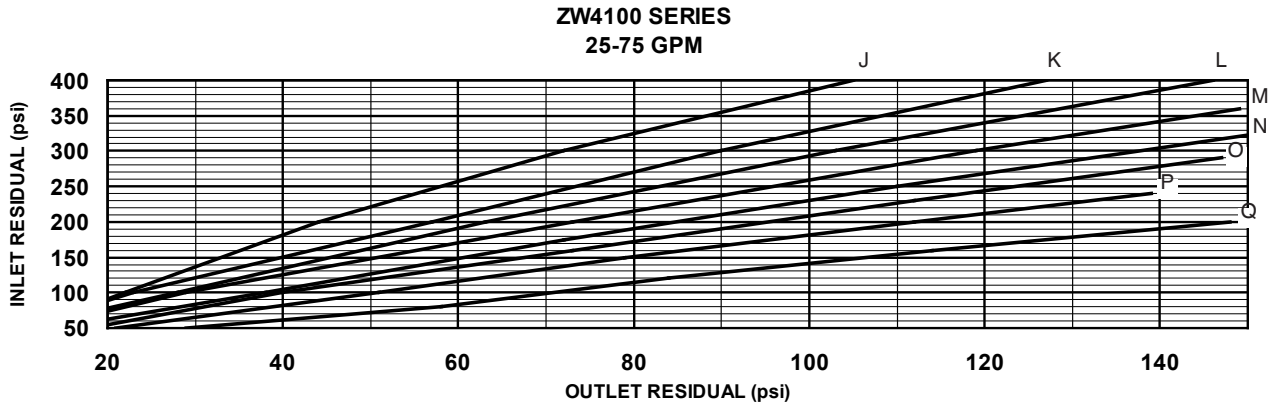
ZW4104GSS

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

MODEL	DIMENSIONS (approximate)													
	A OPEN		A CLOSED		B		C		D		E		WEIGHT	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
ZW4104SS	6 3/4	171	6 1/8	155	4	101	2	51	2 3/16	55	2 3/16	55	11	5
ZW4104GSS	6 3/4	171	6 1/8	155	4	101	2 3/8	60	2 1/2	63	n/a	n/a	11	5

# Residual Pressure Charts

For Pressure-Tru® 1 1/2" Models: ZW4100, ZW4100G, ZW4104 & ZW4104G



## Choosing The Correct Settings

In designing a sprinkler system, a minimum of 20 psi pressure differential (the difference between the inlet static pressure and the valve outlet set static pressure) is recommended to assure a well regulated and efficient system. In choosing the correct setting for the Pressure-Tru® valve, refer to the Residual Pressure Charts, Static Pressure Chart and the following procedures:

1. Determine the demand in gallons per minute required downstream of the valve.
2. Determine the standpipe residual or "flow pressure" at the valve inlet.
3. Locate the appropriate flow chart based on GPM required and body style.
4. Locate the inlet residual pressure on the vertical axis of the chart and draw a horizontal line from this pressure across the chart.
5. Locate the desired valve outlet residual pressure on the horizontal axis of the chart and draw a vertical line from this pressure.
6. The curve nearest the intersection of the two lines drawn is the appropriate type for the valve.
7. To determine the static outlet pressure, locate the static chart. Determine the valve inlet static pressure shown on the vertical axis and draw a horizontal line from that pressure to the appropriate curve determined above, then draw a vertical line down to the horizontal axis and read the static outlet pressure.

## Maximum Rated Inlet Pressure

Maximum inlet pressure, to assure a maximum outlet pressure of 175 psi. Inlet side of valves can be safely tested up to 400 PSI during system hydrostatic leak test.

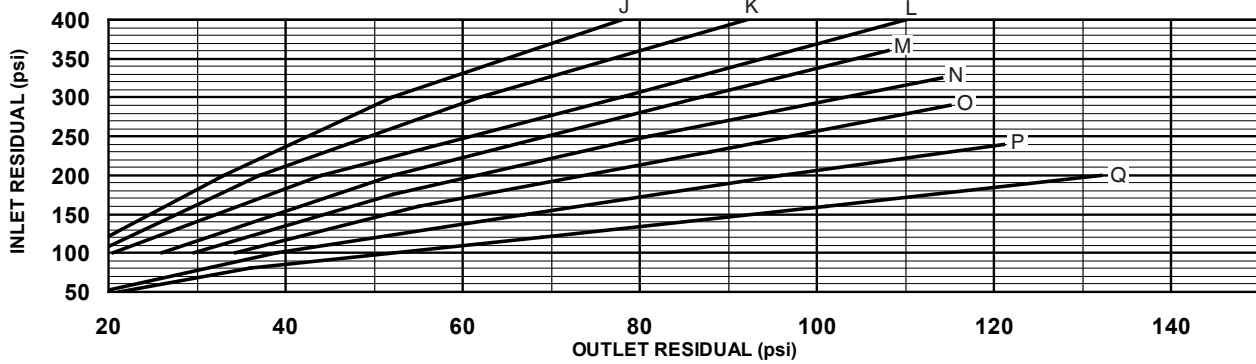
Bonnet Type	Max Inlet Pressure psi (kpa)	
J	400	(2750)
K	400	(2750)
L	400	(2750)
M	360	(2475)
N	325	(2240)
O	290	(2000)
P	240	(1650)
Q	200	(1375)

Proper performance is dependent upon licensed, qualified personnel performing regular, periodic testing according to ZURN WILKINS' specifications and prevailing governmental & industry standards and codes and upon following these installation instructions. Failure to do so releases ZURN WILKINS of any liability that it might otherwise have with respect to that device. Such failure could also result in an improperly functioning device.

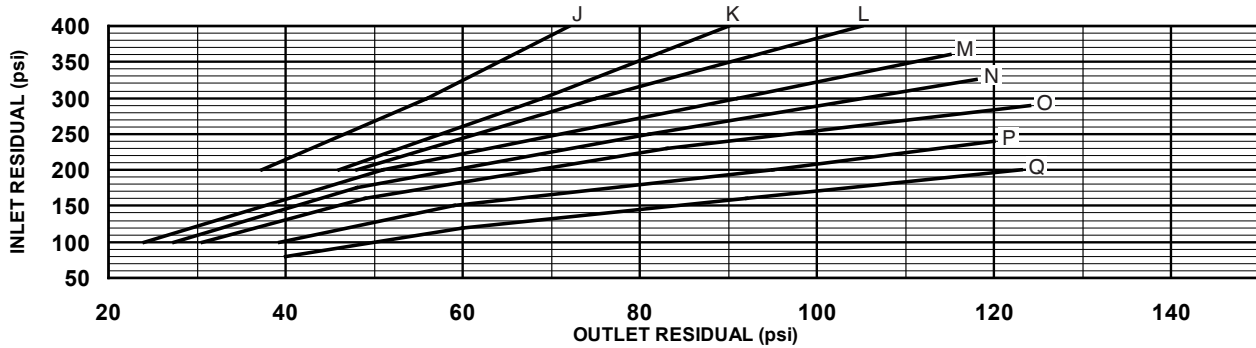
# Residual Pressure Charts

For Pressure-Tru® 1 1/2" Models: ZW4100, ZW4100G, ZW4104 & ZW4104G

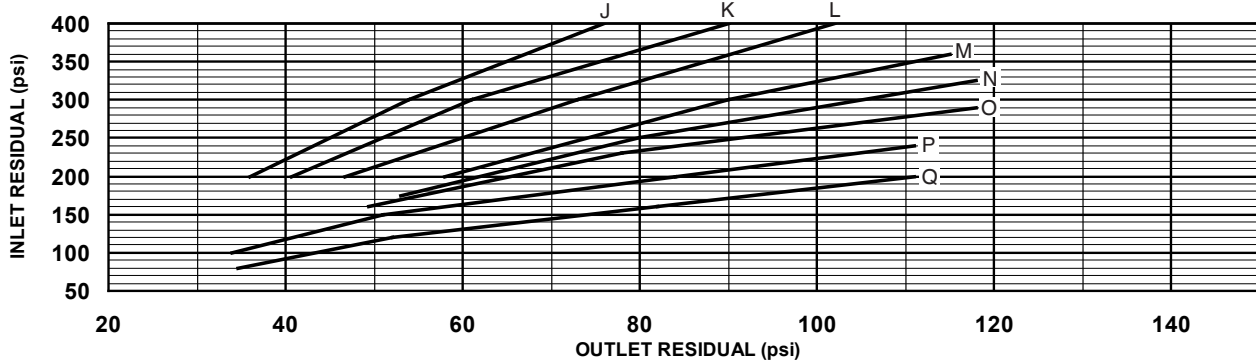
**ZW4100 SERIES**  
126-150 GPM



**ZW4100 SERIES**  
151-175 GPM



**ZW4100 SERIES**  
176-200 GPM



**ZW4100 STATIC CHART**

