



# Model ZW4004SS

## Pressure-Tru™ Automatic Fire Control Valve

### Application

The Pressure-Tru™ ZW4004SS 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 I and CLASS III 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.



ZW4004GSS

### Standards Compliance

- UL® Listed
- C-UL® Listed
- NYC MEA 325-06-E
- California State Fire Marshall Listed

### Options

(Suffixes can be combined)

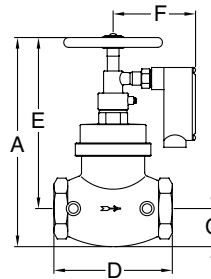
- angle type valve
- IL - in-line (globe type) valve
- G - with grooved inlet and outlet connections
- CH - with chrome finish

### Material

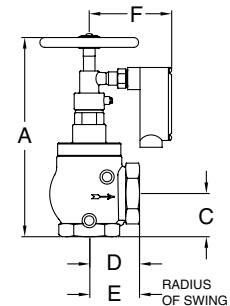
Castings/internals Cast bronze     ASTM B 584  
 Elastomers Buna Nitrile (FDA approved)  
 EPDM (FDA approved)

### Features

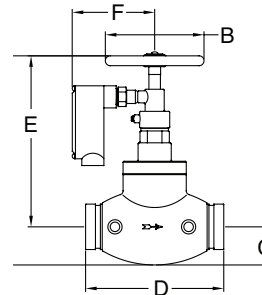
Sizes: 2 1/2"  
 Maximum inlet pressure     400 psi  
 End connections (FNPT)     ANSI B1.20.1  
 (Grooved)     AWWA C606  
 Factory Set  
 Tapped & plugged inlet and outlet for pressure gauge



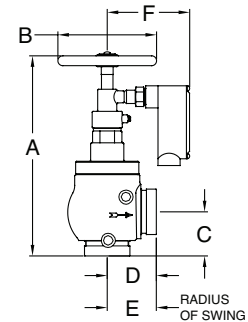
ZW4004ILSS



ZW4004SS



ZW4004ILGSS



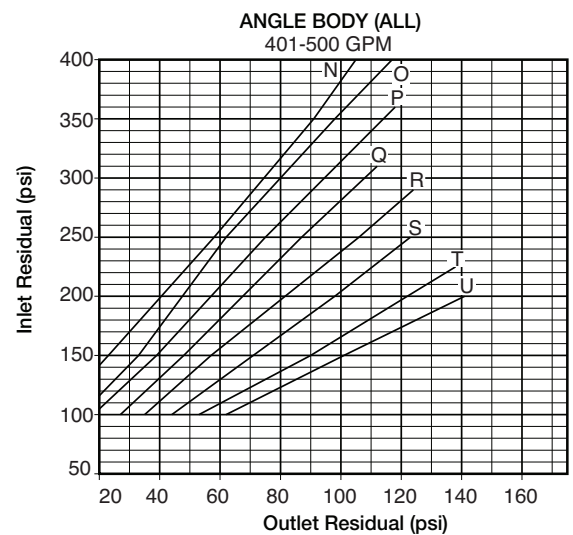
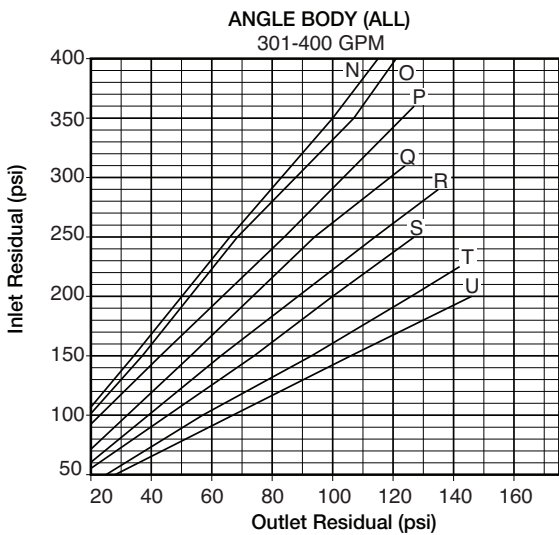
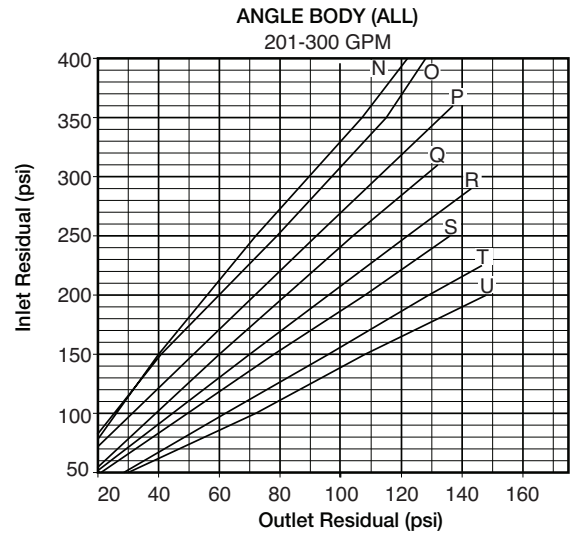
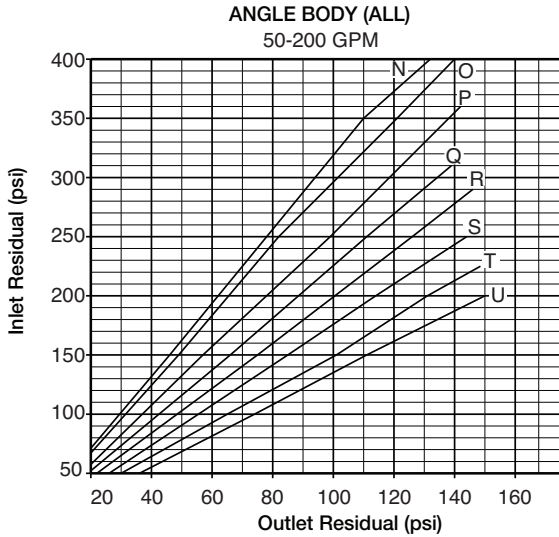
ZW4004GSS

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

MODEL	DIMENSIONS (approximate)													
	A OPEN		B		C		D		E		F		WEIGHT	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs	kg
ZW4004SS	12 7/8	327	6 1/4	159	2 3/4	70	3 3/16	92	3 5/8	92	5 1/2	140	21	9.5
ZW4004ILSS	13 1/2	343	6 1/4	159	2 3/8	60	7 1/2	191	11	280	5 1/2	140	25	11.5
ZW4004GSS	13 5/16	338	6 1/4	159	3 3/16	81	3 3/16	81	n/a	n/a	5 1/2	140	20	9
ZW4004ILGSS	13 1/2	343	6 1/4	159	2 3/8	60	8 3/4	222	n/a	n/a	5 1/2	140	25	11.5

# Residual Pressure Charts

For Pressure-Tru® 2 1/2" Models: ZW4000, ZW4000G, ZW4004 & ZW4004G



## 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

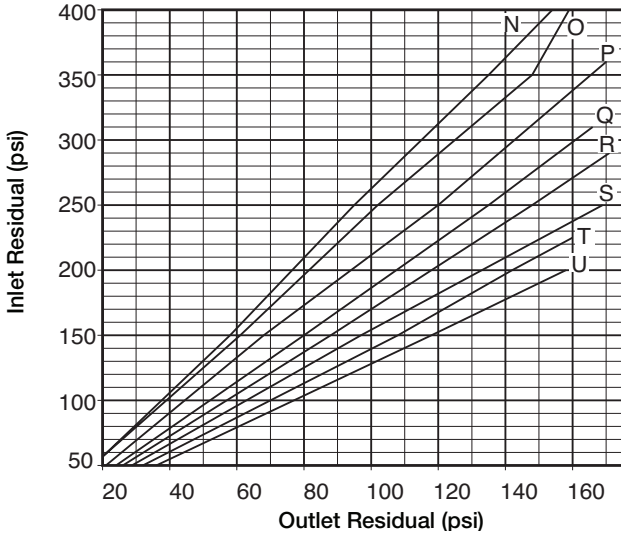
Maximum inlet pressure, to assure a maximum outlet pressure of 175 psi. Inlet side of valves can be safely tested up to 400 PSI during system hydrostatic leak test.

Bonnet Type	Max Inlet Pressure psi (kpa)	
N	400	(2750)
O	400	(2750)
P	360	(2475)
Q	310	(2125)
R	290	(2000)
S	250	(1725)
T	225	(1550)
U	200	(1375)

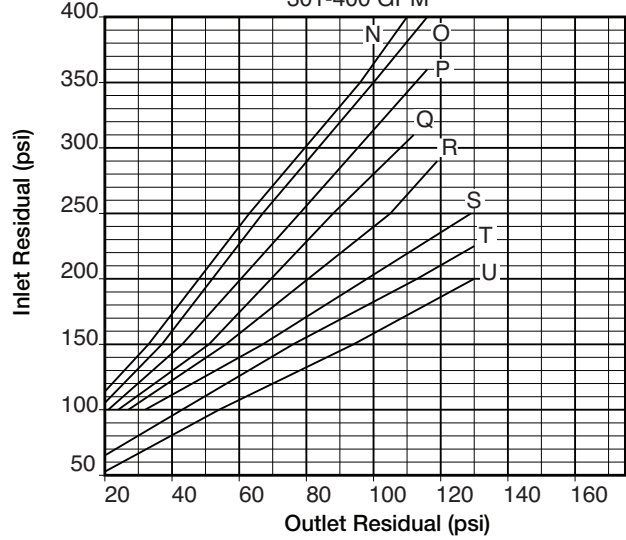
# Residual Pressure Charts

For Pressure-Tru® 2 1/2" Models: ZW4000IL & ZW4004IL

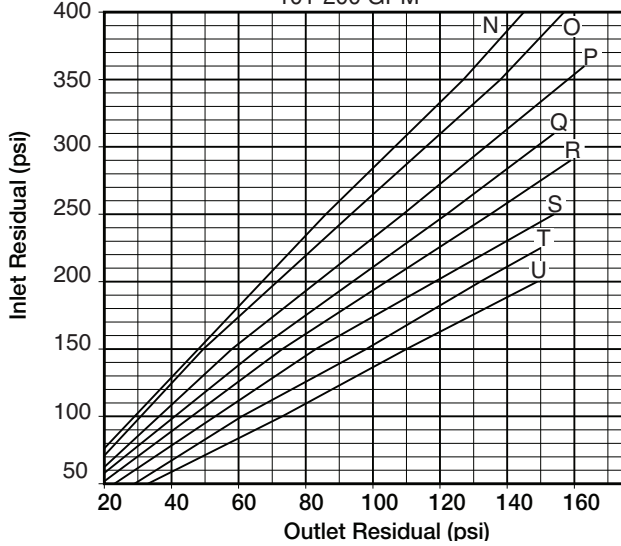
INLINE BODY (NPT)  
50-100 GPM



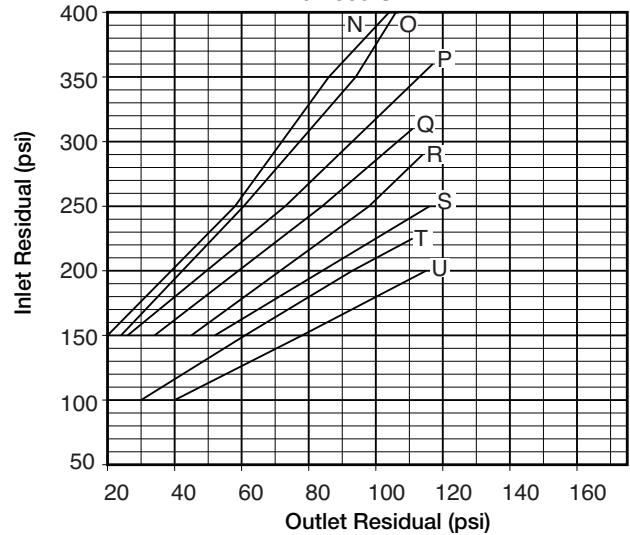
INLINE BODY (NPT)  
301-400 GPM



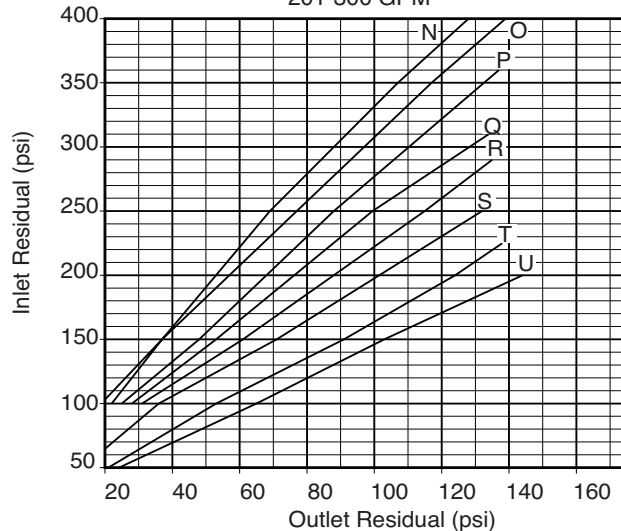
INLINE BODY (NPT)  
101-200 GPM



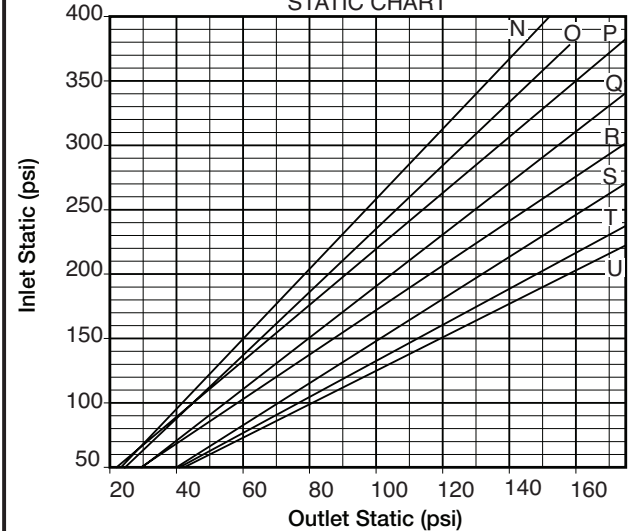
INLINE BODY (NPT)  
401-500 GPM



INLINE BODY (NPT)  
201-300 GPM



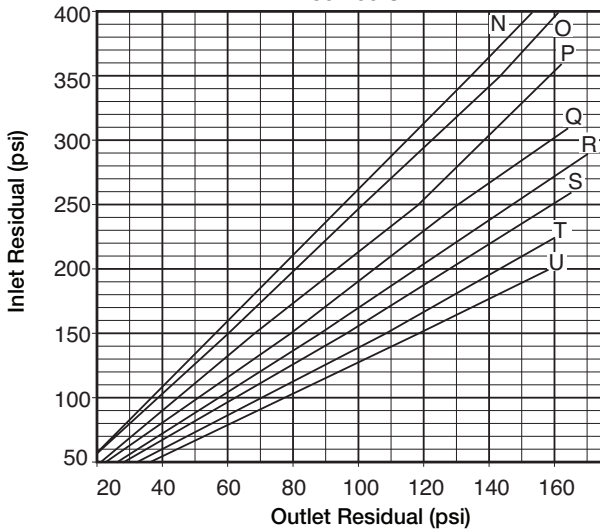
ANGLE & INLINE BODIES (ALL)  
STATIC CHART



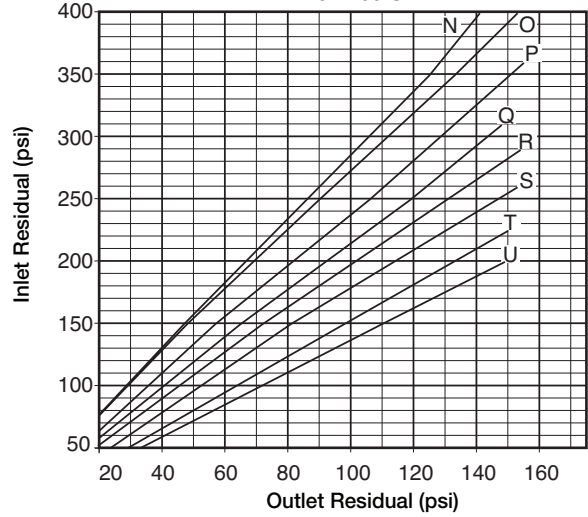
# Residual Pressure Charts

For Pressure-Tru® 2 1/2" Models: ZW4000ILG & ZW4004ILG

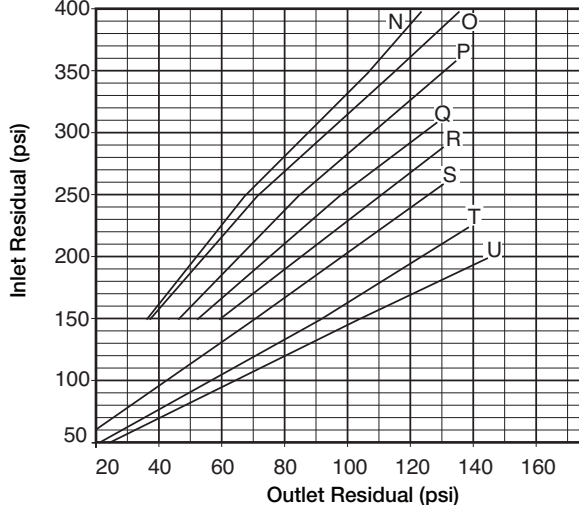
INLINE BODY (GROOVED)  
50-100 GPM



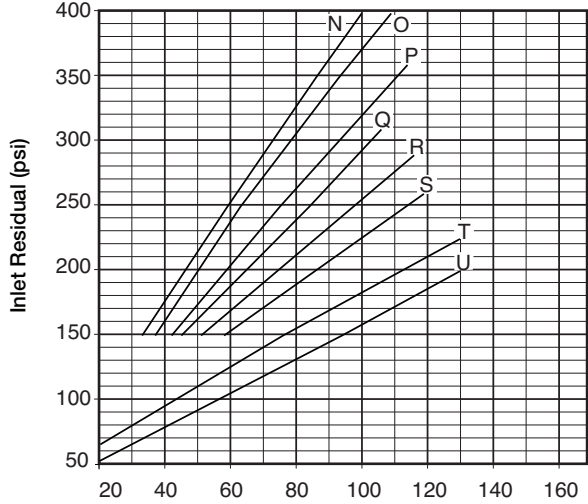
INLINE BODY (GROOVED)  
101-200 GPM



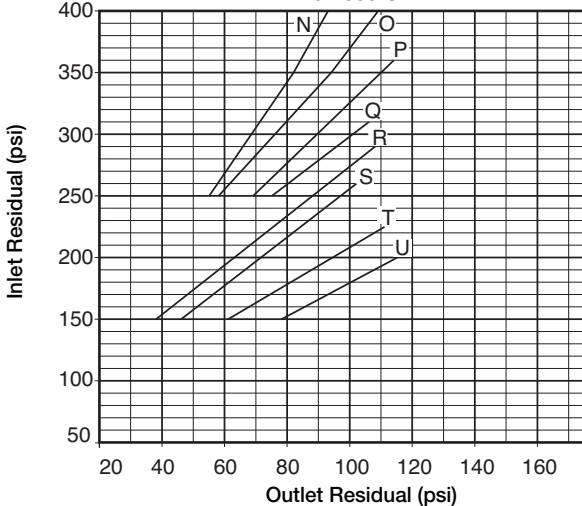
INLINE BODY (GROOVED)  
201-300 GPM



INLINE BODY (GROOVED)  
301-400 GPM



INLINE BODY (GROOVED)  
401-500 GPM



Proper performance is dependent upon licensed, qualified personnel performing regular, periodic testing according to 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.