



Model ZW4100

Pressure-Tru™ Fire Hose Valve

Application

The Pressure-Tru™ ZW4100 Series Pressure Reducing Valve is listed as a standpipe valve for individual hose stations in CLASS II systems. Regulates pressure under both flow and no-flow conditions.

Standards Compliance

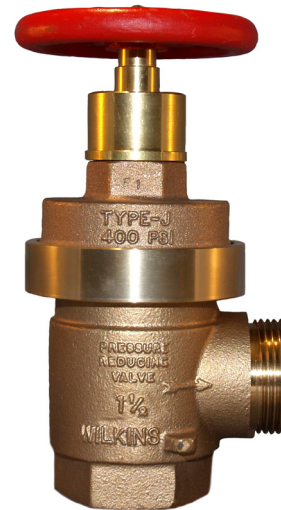
- UL® Listed
- C-UL® Listed

Materials

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

Features

Sizes: 1 1/2"
 Maximum inlet pressure 400 psi
 Inlet connection:
 FNPT ANSI B1.20.1
 Grooved AWWA C606
 Outlet connection: Male Hose (NH) NFFPA 1963
 Factory Set

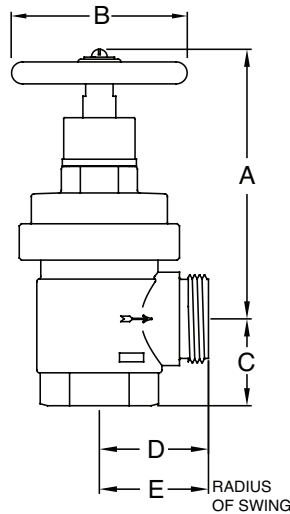


ZW4100

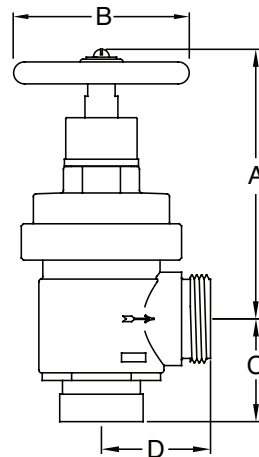
Options

(Suffixes can be combined)

- ZW4100 - angle type valve
- G - with grooved inlet connection
- ST - with specified hose thread
- CC - with cap and chain
- CH - with rough chrome finish



ZW4100



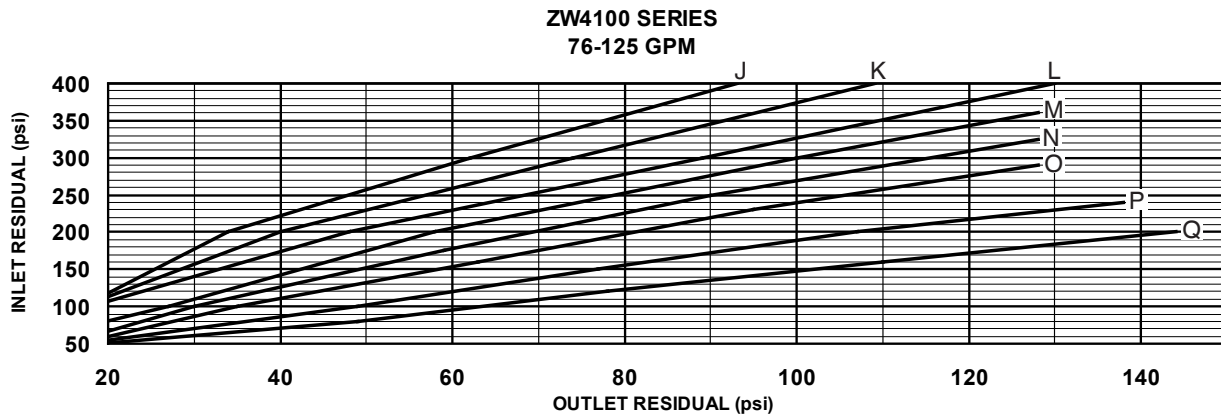
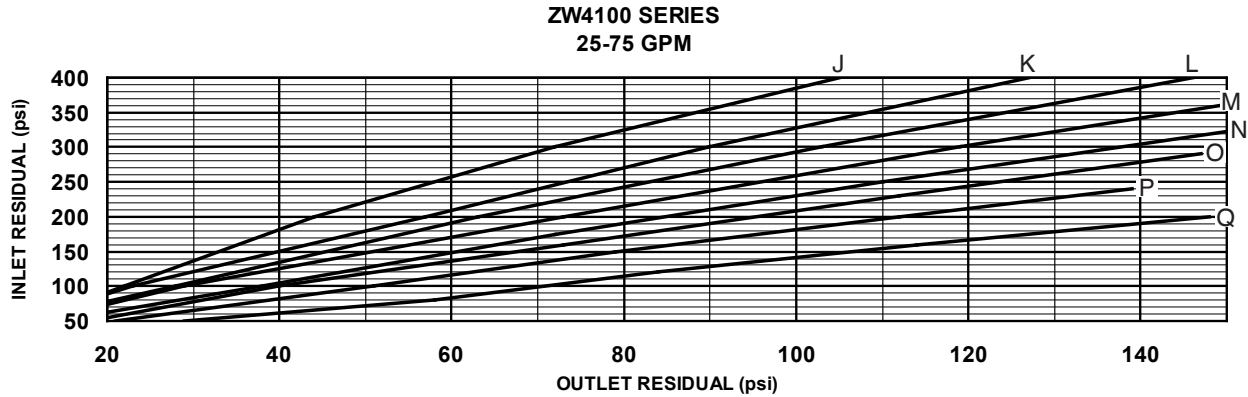
ZW4100G

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	lbs	kg
ZW4100	6 3/4	171	6 1/8	155	4	101	2	51	2 1/2	63	2 5/8	68	9	4
ZW4100G	6 3/4	171	6 1/8	155	4	101	2 3/8	60	2 1/2	63	n/a	n/a	9	4

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.

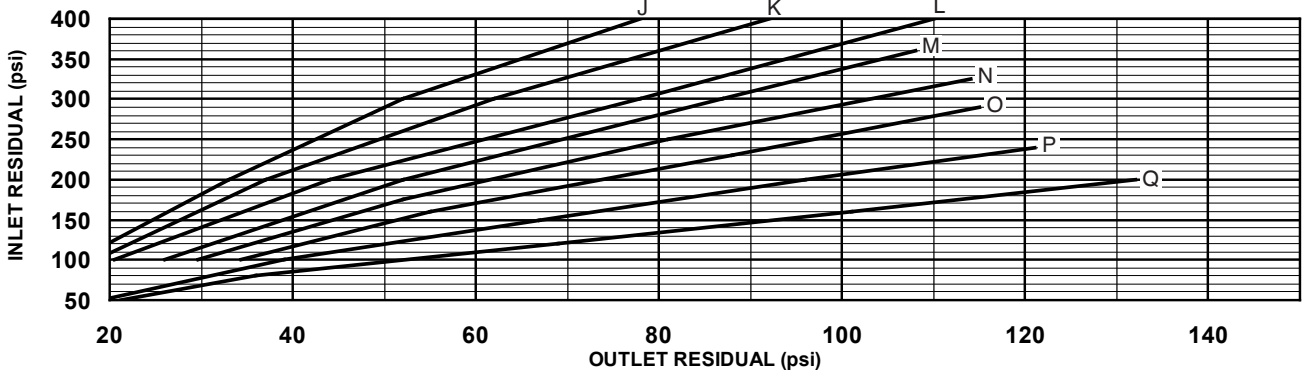
Bonnet Type	Max Inlet Pressure psi (kpa)	
J	400	(2750)
K	400	(2750)
L	400	(2750)
M	360	(2475)
N	325	(2240)
O	290	(2000)
P	240	(1650)
Q	200	(1375)

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.

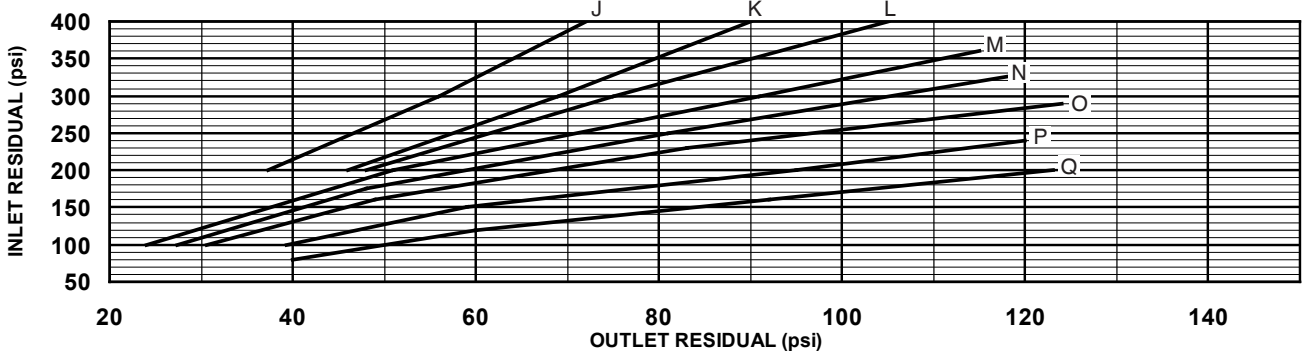
Residual Pressure Charts

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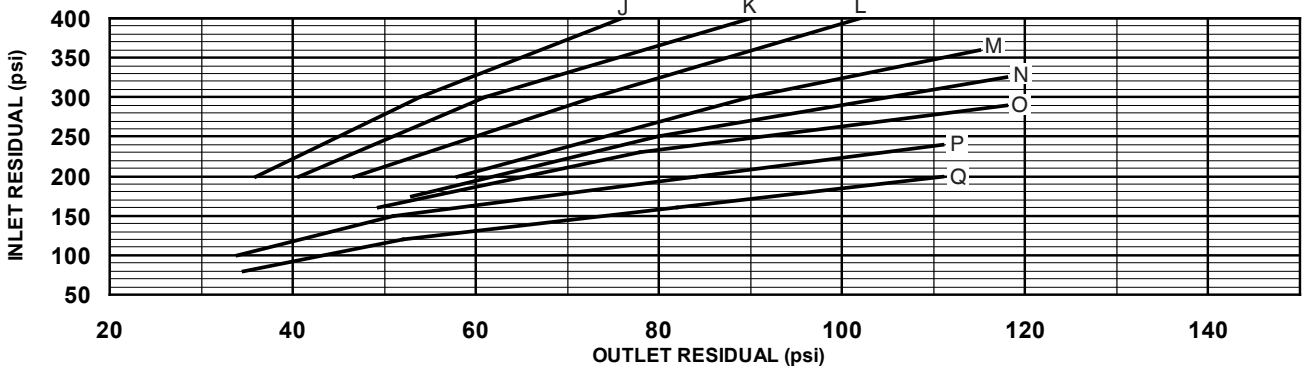
ZW4100 SERIES
126-150 GPM



ZW4100 SERIES
151-175 GPM



ZW4100 SERIES
176-200 GPM



ZW4100 STATIC CHART

