



APPLICATION

The Pressure-Tru™ ZW4000 Series Pressure Reducing Valve is listed as a standpipe valve for individual hose stations in CLASS I and CLASS III systems. Regulates pressure under both FLOW and NO-FLOW conditions.

STANDARDS COMPLIANCE

- UL® Listed
- C-UL® Listed
- NYC MEA 325-06-E

MATERIAL

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

FEATURES

Sizes: \varnothing 2 1/2"
 Maximum inlet pressure 400 psi
 Inlet connection: (FNPT) or ANSI B1.20.1
 (Grooved) AWWA C606
 Outlet connection: Male Hose (NH) NFPA 1963
 Manufactured in the USA
 Factory Set

OPTIONS

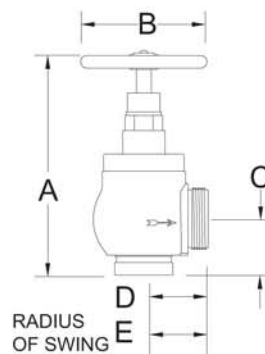
- (Suffixes can be combined)
- ZW4000 - angle type valve
 - IL - in-line (globe type) valve
 - G - with grooved inlet connection
 - SF - with San Francisco hose thread (3")
 - CC - with cap and chain
 - CH - with chrome finish



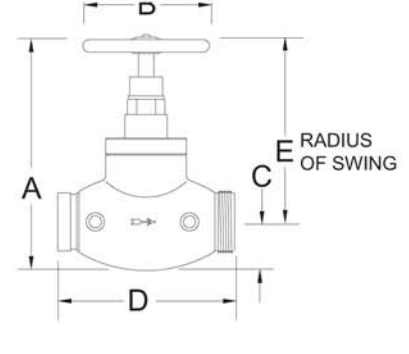
ZW4000



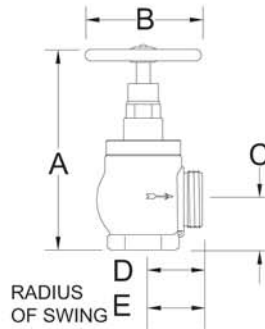
ZW4000G



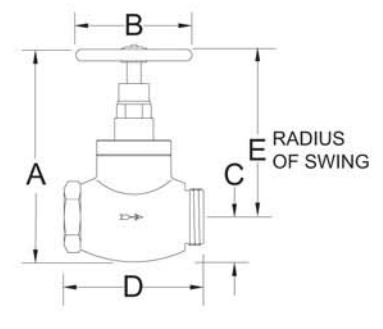
ZW4000G



ZW4000ILG



ZW4000



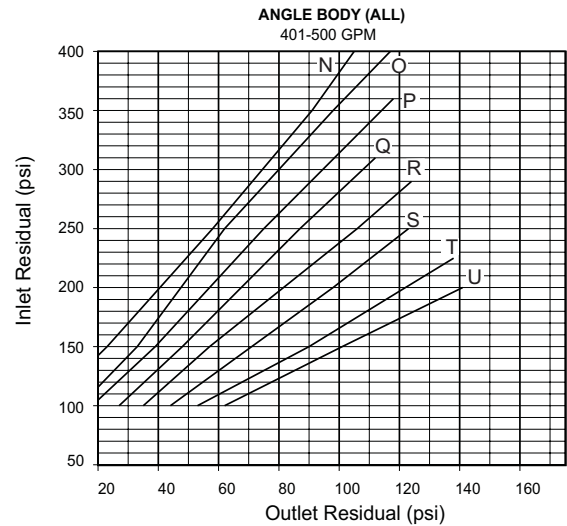
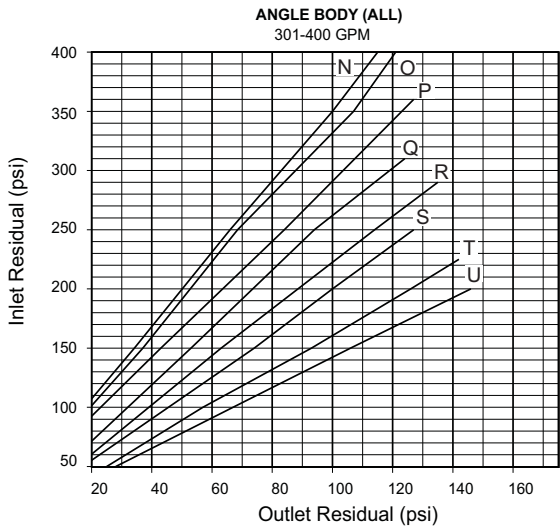
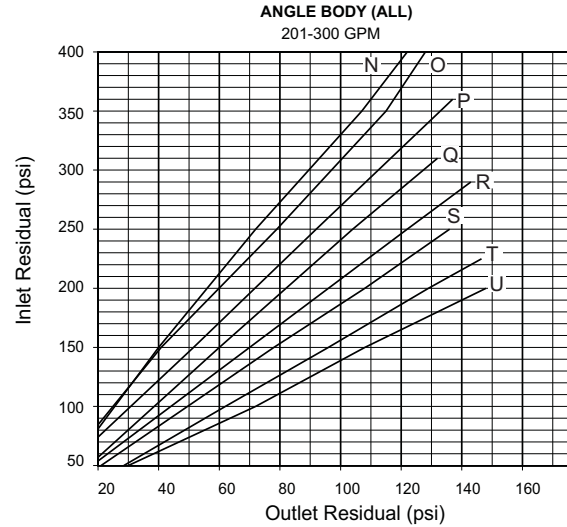
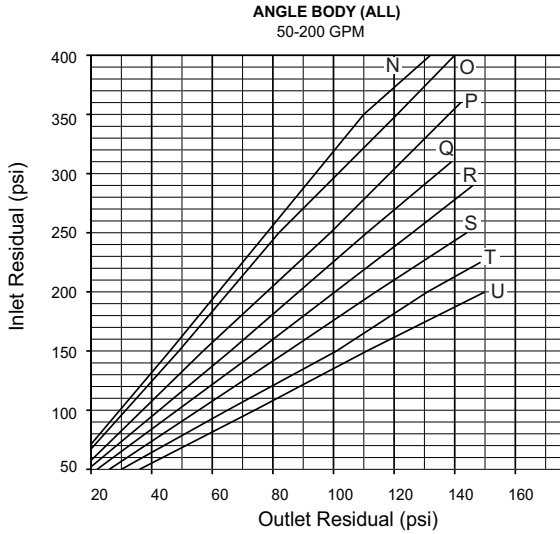
ZW4000IL

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
ZW4000	10 7/8	276	10	254	6 1/4	159	2 3/4	70	3 3/16	81	3 1/2	89	19	8.6
ZW4000IL	11 1/2	292	10 1/2	267	6 1/4	159	2 3/8	60	7 1/2	191	8 3/16	208	23	10.4
ZW4000G	10 7/8	276	10	254	6 1/4	159	2 3/4	70	3 3/16	81	3 1/2	89	18	8.1
ZW4000ILG	11 1/2	292	10 1/2	267	6 1/4	159	2 3/8	60	8 3/4	222	8 3/16	208	23	10.4

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.

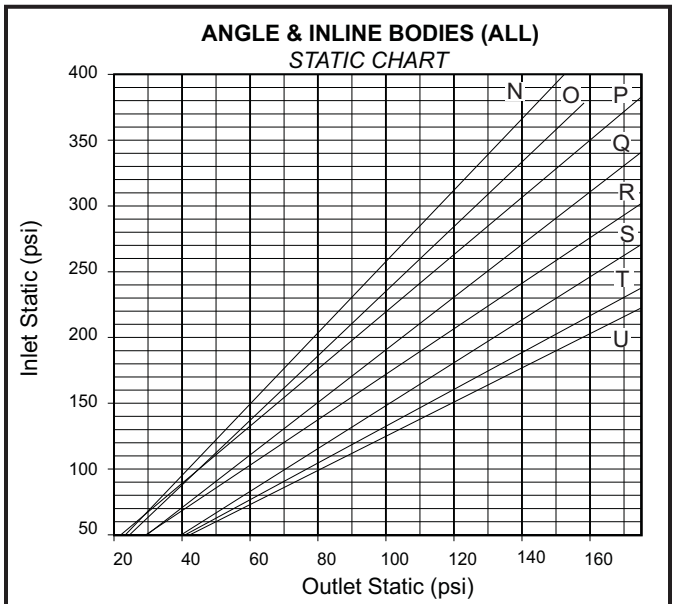
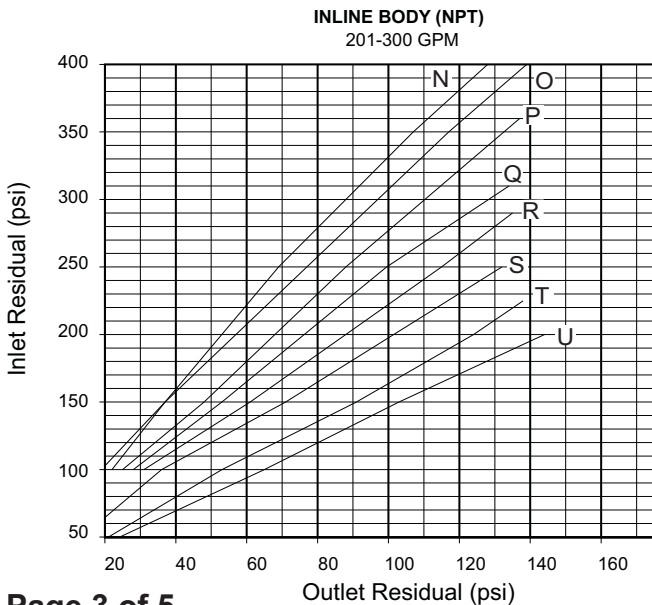
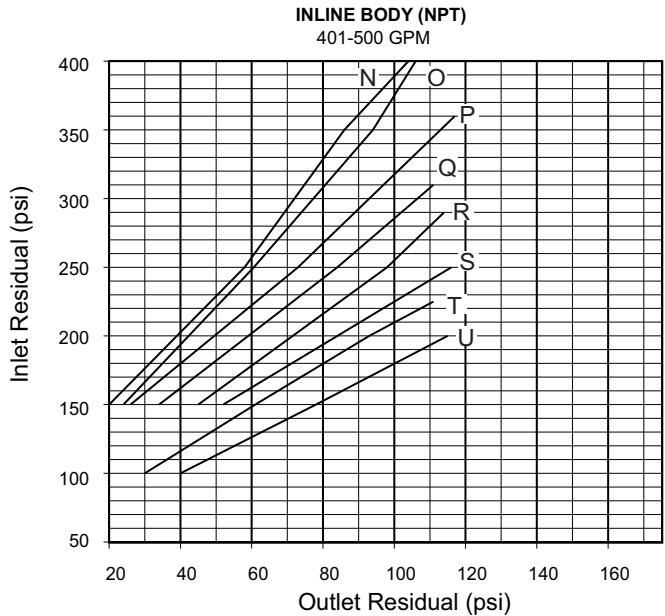
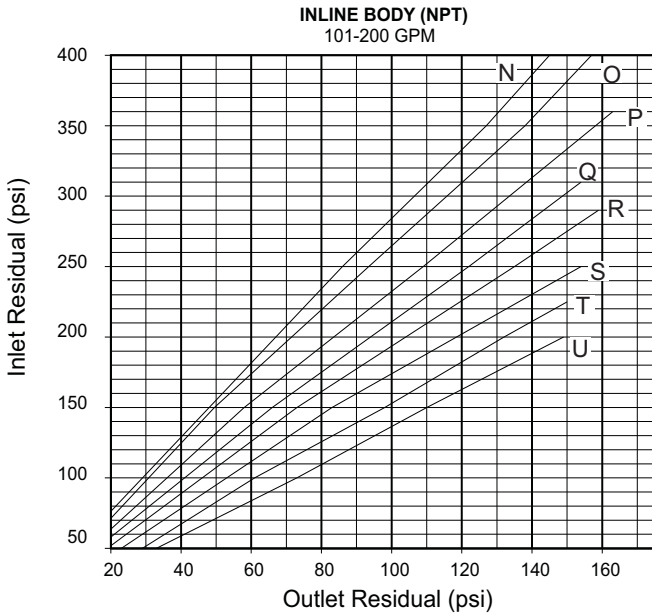
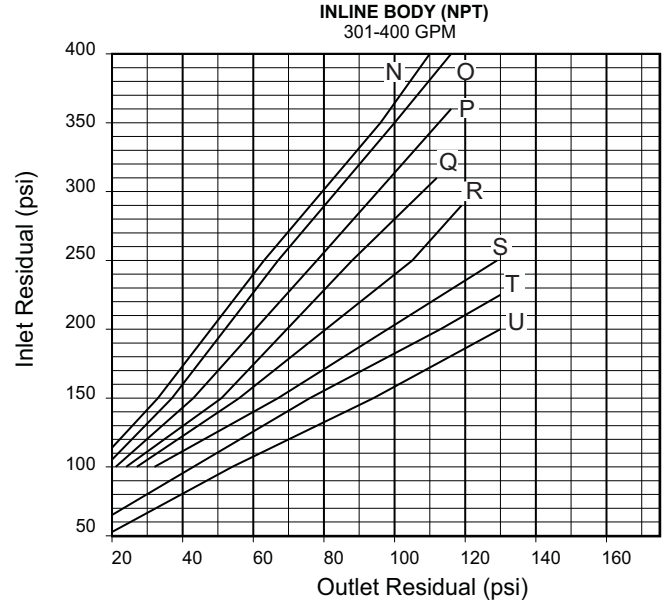
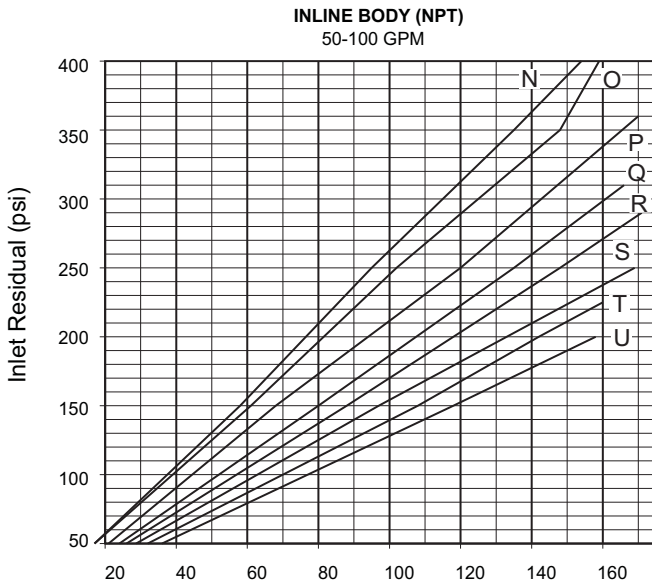
MAXIMUM RATED INLET PRESSURE

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

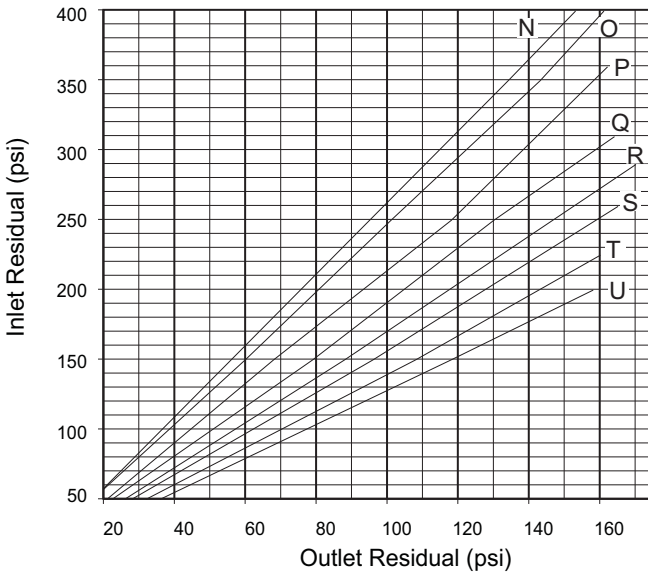
For Pressure-Tru® 2 1/2" Models: ZW4000IL & ZW4004IL



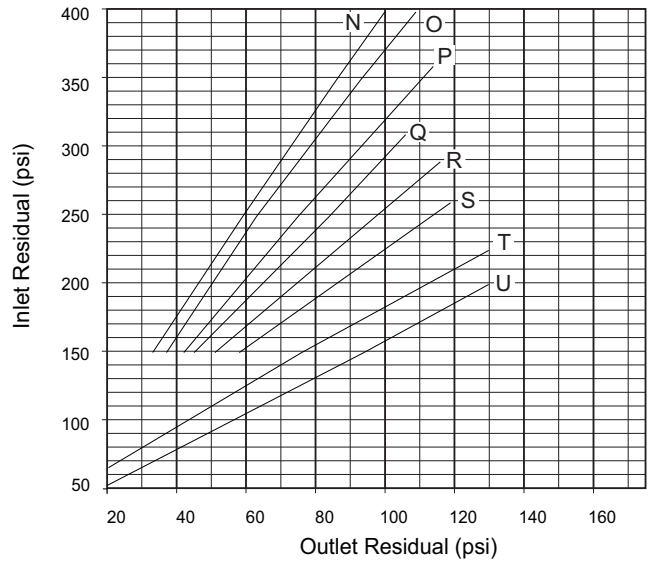
Residual Pressure Charts

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

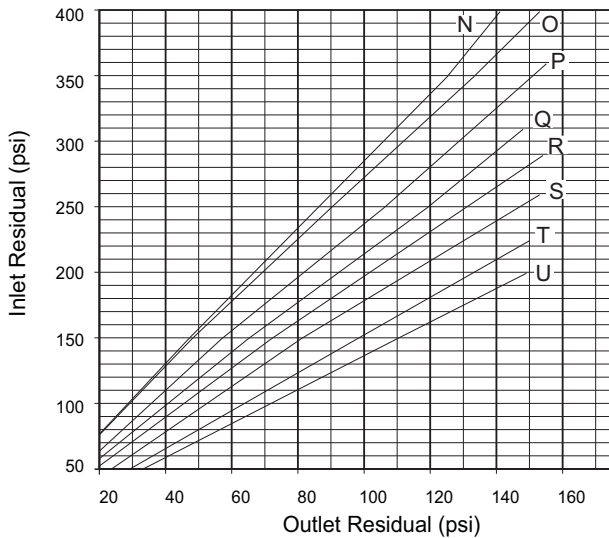
INLINE BODY (GROOVED)
50-100 GPM



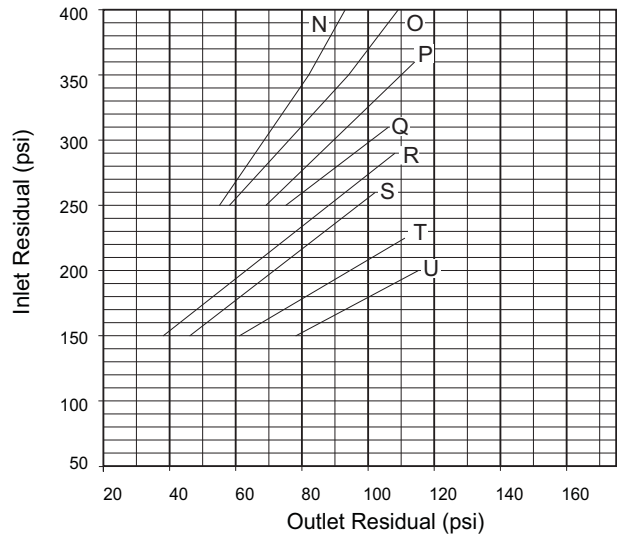
INLINE BODY (GROOVED)
301-400 GPM



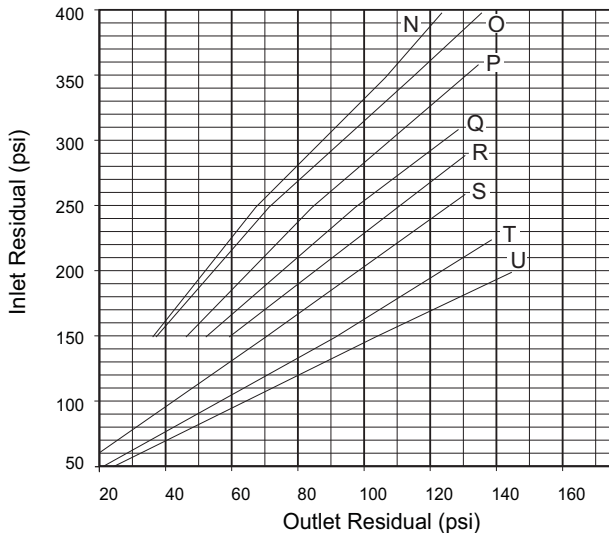
INLINE BODY (GROOVED)
101-200 GPM



INLINE BODY (GROOVED)
401-500 GPM



INLINE BODY (GROOVED)
201-300 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 WILKINS of any liability that it might otherwise have with respect to that device. Such failure could also result in an improperly functioning device.

WILKINS
a ZURN® company

ZW4000 Series Fire Valve

Part Number Assistant



Check off the boxes that match the choices you want. If the choice is blank, this is standard and you add nothing to the part number. If there are letters after the check box, then you add those letters to the part number in that order from left to right.

A bonnet setting has to be part of the part number since the ZW4000 series valves are factory set and not field adjustable. The flow curves **Must** be used by the system designer to select the correct bonnet setting.

Example
ZW4004 Sprinkler Floor Control Valve (Factory Set)

<input type="checkbox"/> Angle Body <input checked="" type="checkbox"/> Globe Body IL (choose one)	<input type="checkbox"/> Threaded Ends <input checked="" type="checkbox"/> Grooved Ends G (choose one)	<input type="checkbox"/> SS Supervisory Switch Monitor Switch Adapter Bracket <input checked="" type="checkbox"/> MSA (choose one or none)	<input type="checkbox"/> No Handwheel Capped Bonnet <input type="checkbox"/> CAP (choose one or none)	<input type="checkbox"/> Rough <input type="checkbox"/> Chrome Plated <input type="checkbox"/> CH (optional)	(choose one) Bonnet Setting Type <input type="checkbox"/> -N <input type="checkbox"/> -O <input type="checkbox"/> -P <input type="checkbox"/> -Q <input type="checkbox"/> -R <input type="checkbox"/> -S <input checked="" type="checkbox"/> -T <input type="checkbox"/> -U
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In this example the part number would be ZW4004ILMSA-T

ZW4000 StandPipe Hose Valve (Factory Set)

<input type="checkbox"/> Angle Body <input type="checkbox"/> Globe Body IL (choose one)	<input type="checkbox"/> Threaded Inlet <input type="checkbox"/> Grooved Inlet G (choose one)	<input type="checkbox"/> 2-1/2" Hose thread <input type="checkbox"/> 3" Hose thread SF (choose size)	<input type="checkbox"/> w/ Cap & Chain <input type="checkbox"/> CC (optional)	<input type="checkbox"/> Rough <input type="checkbox"/> Chrome <input type="checkbox"/> Plated <input type="checkbox"/> CH (optional)	(choose one) Bonnet Setting Type <input type="checkbox"/> -N <input type="checkbox"/> -O <input type="checkbox"/> -P <input type="checkbox"/> -Q <input type="checkbox"/> -R <input type="checkbox"/> -S <input type="checkbox"/> -T <input type="checkbox"/> -U
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Specify for a special thread requirement.

ZW4004 Sprinkler Floor Control Valve (Factory Set)

<input type="checkbox"/> Angle Body <input type="checkbox"/> Globe Body IL (choose one)	<input type="checkbox"/> Threaded Ends <input type="checkbox"/> Grooved Ends G (choose one)	<input type="checkbox"/> SS Supervisory Switch Monitor Switch Adapter Bracket <input type="checkbox"/> MSA (optional)	<input type="checkbox"/> No Handwheel Capped Bonnet <input type="checkbox"/> CAP (optional)	<input type="checkbox"/> Rough <input type="checkbox"/> Chrome Plated <input type="checkbox"/> CH (optional)	(choose one) Bonnet Setting Type <input type="checkbox"/> -N <input type="checkbox"/> -O <input type="checkbox"/> -P <input type="checkbox"/> -Q <input type="checkbox"/> -R <input type="checkbox"/> -S <input type="checkbox"/> -T <input type="checkbox"/> -U
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Specify if the body should be tapped and plugged for gauges.

Qty	Part number	Notes