



# ProSeries 100™

## 1" AND 3/4" ELECTRIC VALVES

### FEATURES

- Straight Flow Path – Minimal pressure loss
- Manual Bleed Screw – For operation with no power
- Internal Bleed by Turning Solenoid
- Flow Control/Handle – Removable for tight installations
- Minimal Parts – For ease of service and durability

### OPERATING SPECIFICATIONS

- Pressure – 20 PSI minimum to 150 PSI
- 3/4" Flow Range – 1-19.8 GPM
- 1" Flow Range – 5-30 GPM
- Voltage – 24 VAC, 60 Cycle

### BEFORE INSTALLATION

1. Flush system thoroughly before installing valves.
2. Make sure you have sufficient water supply, pressure and flow.

### INSTALLING VALVE WITH ADAPTERS

1. Wrap adapters with 2 to 3 complete wraps of teflon tape around threads.
2. Hand tighten adapters into valve.
3. Carefully tighten adapters one additional turn past hand tight.
4. Do not use flow control handle as a lever.

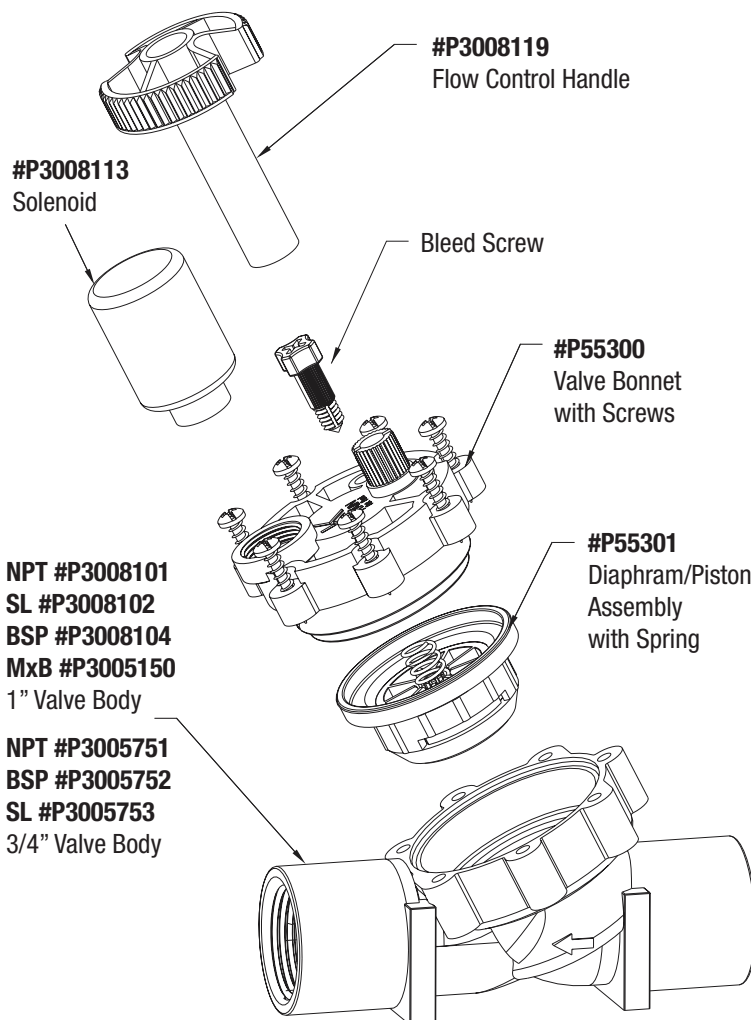
**CAUTION: DO NOT OVER-TIGHTEN ADAPTERS!**

### OPERATING VALVE MANUALLY

1. Open bleed screw counter-clockwise 3 complete turns.
2. Water will exit screw hole and valve will open.
3. Or turn solenoid 1/2 turn counterclockwise for internal bleed.



### PARTS BREAKDOWN



**K-Rain Manufacturing Corp.**  
1640 Australian Avenue  
Riviera Beach, FL 33404 USA  
PH: 561.844.1002 | 1.800.735.7246  
FAX: 561.842.9493  
[www.krain.com](http://www.krain.com)



# ProSeries 100™ 1" AND 3/4" ELECTRIC VALVES

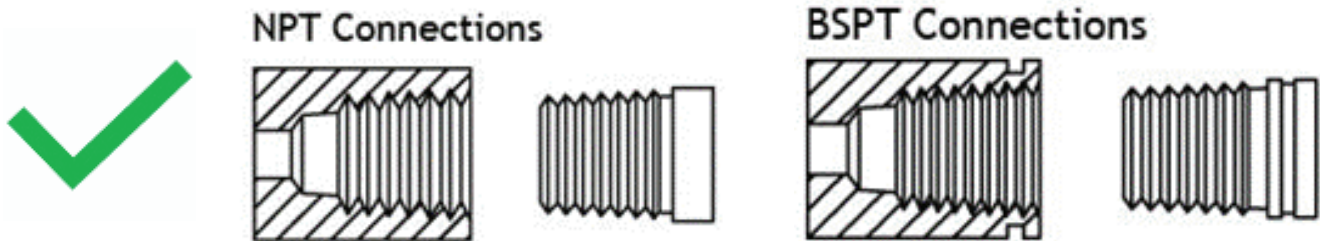
## 1. INLET / OUTLET CONNECTIONS

### 1.1 Threaded Valves:

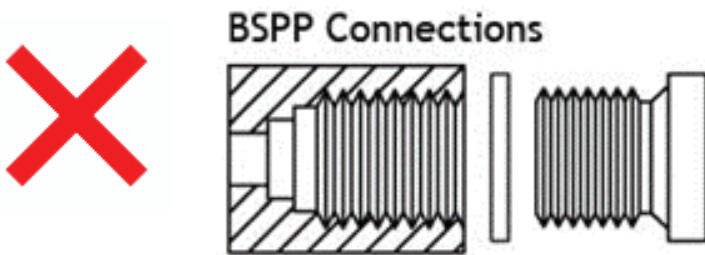
K-Rain electric valves are available with either NPT (National Pipe Thread) or BSPT (British Standard Pipe Thread). All valves with a BSPT thread will be marked as either BSPT or BSP on the valve body. Most valves with NPT thread are marked as such on the valve body. However some models of valve are not marked NPT and these will be NPT threaded by default.

Note: Though not typically used in the irrigation industry there is a BSPP (British Standard Parallel Pipe) thread. A BSPP fitting may cause damage and or not seal if threaded into a BSPT threaded valve.

### PROPER FITTINGS / PIPE / NIPPLES – HAVE TAPER THREADED SECTION



### WRONG FITTING / PIPE / NIPPLES – HAVE STRAIGHT (PARALLEL) THREADED SECTION



### 1.2. Slip Valves:

On valves with slip type glue-in sockets: Purple Primer and regular body clear or medium body gray PVC cement should be used. Thoroughly coat the pipe stub and lightly coat the socket with primer then with glue. Excess glue in the socket can be pushed into the valve causing malfunctions. After the pipe is inserted, turn ¼ turn to get a good weld. Wipe off any excess cement that is pushed out of the socket with a rag. Allow 2 hours of cure time at temperatures above 60 Fahrenheit/15 Celsius before pressure testing the valve.

## 2. TEFLON TAPE:

K-Rain recommends using white Teflon tape ONLY to seal the threads - wrapping the fitting with a maximum of 3 layers of tape clockwise in relation to the threads of the fitting facing you. Make sure that there is no tape hanging off the end of the fitting before inserting into the valve as this may cause the valve to malfunction. Hand tighten the fitting into the valve and then 1 1/2 additional turns with a pipe wrench or pliers.