

innovation in irrigation™

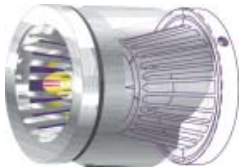
**NELSON**

# DRIP/MICRO IRRIGATION

800 SERIES CONTROL VALVES

## ADVANTAGES WITH NELSON VALVES

### LOW PRESSURE FULL OPEN FLOW OPERATION.



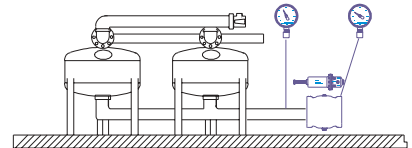
Power savings because low pressure sleeve starts to open at 2 PSI.

### MOST RELIABLE AND ACCURATE PRESSURE CONTROL AVAILABLE.



Low friction spool works without any pressure drop.

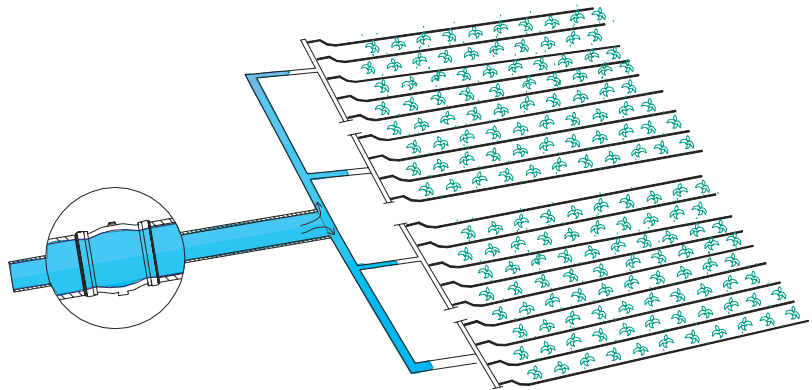
### EXCELLENT FILTER STATION CONTROL DURING BACKFLUSH.



Advanced sensitivity feature can stop wild pressure swings.

### EFFICIENT DRIP ZONE FILL TIME.

Fill time on drip zones is reduced resulting in improved uniformity. The Nelson 800 valve with the C1 low pressure sleeve opens wide on start-up to fill zones much faster than other valves. The high efficiency of the valve design gives as much as 60% more flow through the Nelson valve. Many times a smaller valve can be used to do the job.



## ADVANCED DRIP PERFORMANCE FEATURES:

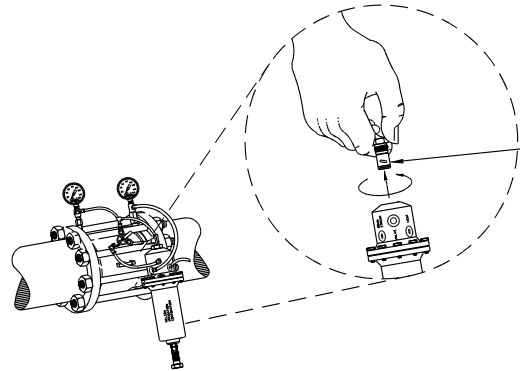
- No pressure drop required to regulate.
- Widest flow range available.
- Rate-Of-Flow control option.
- Calibrated pressure adjustment setting.
- Pressure accuracy even if temperature varies.
- Low power solenoid for wire size savings.
- Freeze proof easy clean external filter.
- Quick-connect pressure gauge fittings.



**NELSON 800 SERIES CONTROL VALVES ARE MADE FOR DRIP/MICRO IRRIGATION**

Here's why the Nelson 800 Series is preferred for drip/micro irrigation:

The **sensitivity bushing** is designed to be easily replaced and is used to change the pressure control response in order to solve pressure cycling problems or to make the valve more accurately control pressure. The red bushing is the most sensitive and is used for drip applications.



Replaceable  
Sensitivity  
Bushing

The **Rate-Of-Flow** control is designed to control the valve flow rate. Many times it is necessary to hold back the flow to avoid unwanted water hammer or surges which can damage system pipe and drip lines. A broken line can contaminate an entire drip system. The Nelson Rate-Of-Flow is designed to fit into the valve without causing significant pressure loss.



**Proportional throttling.** Look at the center of the valve to see the internal struts which keep the sleeve in good throttling position even at low flows. Competitive valves create much pressure loss and turbulence but the 800 Series design is engineered to avoid these problems. The 800 Series with **proportional throttling** is the best valve for smooth operation over the widest flow and pressure range.

Proportional throttling area

**WARRANTY AND DISCLAIMER**

Nelson 800 Series Control Valves are warranted for one year from date of original sale to be free of defective materials and workmanship when used within the working specifications for which the products were designed and under normal use and service. The manufacturer assumes no responsibility for installation, removal or unauthorized repair of defective parts. The manufacturer's liability under this warranty is limited solely to replacement or repair of defective parts and the manufacturer will not be liable for any crop or other consequential damages resulting from defects or breach of warranty. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES AND OF ALL OTHER OBLIGATIONS OR LIABILITIES OF MANUFACTURER. No agent, employee or representative of the manufacturer has authority to waive, alter or add to the provisions of this warranty, nor to make any representations or warranty not contained herein.