Nelson Irrigation Corporation has taken a great cage design to a whole new level. Flow area has been opened up by 50% by using plastic molding technology and by eliminating the upstream cage. The result is higher flow, less friction loss and more accurate pressure regulation.

**Advanced Materials**

- Specially compounded plastic and rubber components resist corrosion

**Geared To Handle Tough Agricultural Conditions**

- Vastly improved cage design to allow passage of debris.
- 3-way control design requires minimal filtration for reliable operation, as compared to traditional 2-way valves which continuously bleed water and are susceptible to plugging.

**Save Water, Save Energy**

- Higher flow capacity & lower friction loss — better than any other valve on the market.
- More precise, more stable pressure regulation over a wider range of flow.
- Pressure regulation with minimal pressure differential required across the valve.
APPLICATIONS

» Zone control for sprinkler or drip irrigated row crops, nursery crops, orchards and vineyards.

» Place valve under Big Gun® for solid set irrigation, end of pivot solutions and a variety of environmental controls including fire suppression, dust suppression and cooling.

Tel: +1 509.525.7660 / Fax: +1 509.525.7907 / nelsonirrigation.com / info@nelsonirrigation.com
A modular design provides ULTIMATE FLEXIBILITY in valve style and connection type while simplifying installation, troubleshooting and maintenance – great for the grower, installer and system designer!
WAYS TO CONFIGURE

» Nelson valve sizes should be selected based on flow needs as opposed to pipe sizes. Because of the high level efficiency, it is common to select the valve one size smaller than the pipe.
# 1000 SERIES
## CONTROL VALVE DESCRIPTION CODES

<table>
<thead>
<tr>
<th>1. SIZE</th>
<th>2. STYLE</th>
<th>3. PRESSURE</th>
<th>4. CONNECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000V</td>
<td>2</td>
<td>INL</td>
<td>B03</td>
</tr>
<tr>
<td>2</td>
<td>(2&quot;)</td>
<td>Inline</td>
<td>(2&quot; Flange, PVC Socket)</td>
</tr>
</tbody>
</table>

### SIZE
- **Code**: 2, 3
- **Size**: 2", 3"

### STYLE
- **CODE**: INL, BGV, TEE, ELB
- **Stlye**: Inline, Big Gun Valve, Tee, Elbow

### PRESSURE
- **CODE**: LO, MED, HI
- **Pressure**: Low (10-40 psi), Medium (18-80 psi), High (30-150 psi)

### CONNECTIONS
- **Code**: B01, B02, B03, ..., B25
- **Connections**:
  - B01: None (wafer only, no stud kit)
  - B02: 2" Metal Flanges, FNPT
  - B03: 2" Flange, PVC Socket
  - B04: Wafer w/2x3" adapters for 3" flanges (no stud kit)
  - B05: 2" Victaulic
  - B06: 3" Victaulic
  - B07: 1.25" FNPT
  - B08: 2" FNPT
  - B09: 3" OD Spline (Certa-Set)
  - B11: 1.5" FNPT
  - B13: 1.5" FBSP
  - B14: 2" FBSP
  - B16: 3" Flange, PVC Socket (w/2x3" adapters)
  - B17: Wafer w/stud kit for 2" flanges
  - B19: Wafer w/stud kit for 75/100 Big Gun
  - B21: Wafer w/stud kit and 2x3" adapters for 3" flanges
  - B15: 3" Flange, PVC Socket
  - B18: Wafer w/stud kit for 3" flanges
  - B20: Wafer w/stud kit for 150 Big Gun
  - B22: Wafer w/stud kit and 3x4" adapters for 4" flanges
  - B23: Wafer w/3x4" adapters for 4" flanges (no stud kit)
  - B24: 3" Victaulic
  - B25: 4" Flange, PVC Socket (w/3x4" adapters)
Example:

**1000V2 INL LO B03 E01-O R30S0F0 H2 L00**

1000 Series 2" Valve, Inline, Low pressure (10-40psi), 2" PVC flanges, Manual Selector Only, Pressure Reducing (5-30psi), External Filter.

**5. ON/OFF CTRL**

- **E01-0** (Manual Selector Only)

**6. PRESSURE CTRL**

- **R30S0F0** (Pressure Reducing: 5-30psi)

**7. FILTER**

- **H2** (External Filter)

**8. SOLENOID LOGIC**

- **L00** (No Solenoid)

### PRESSURE CONTROL

<table>
<thead>
<tr>
<th>PRESSURE REDUCING</th>
<th>PRESSURE SUSTAINING</th>
<th>RATE-OF-FLOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>CODE</td>
<td>ADJ. RANGE</td>
<td>CODE</td>
</tr>
<tr>
<td>R0</td>
<td>None</td>
<td>S0</td>
</tr>
<tr>
<td>R30</td>
<td>5-30 psi</td>
<td>S30</td>
</tr>
<tr>
<td>R60</td>
<td>5-60 psi</td>
<td>S60</td>
</tr>
<tr>
<td>R120</td>
<td>10-120 psi</td>
<td>S120</td>
</tr>
</tbody>
</table>

### SOLENOID LOGIC

- **L00** NA
- **L01** Open/Closed (Standard)
- **L02** Closed/Open (Reverse Logic)
- **L03** Sustaining/Closed
- **L04** Sustaining/Open
- **L05** Closed/Sustaining
- **L06** Open/Sustaining
- **L07** Reducing/Closed (Standard)
- **L08** Closed/Reducing (Reverse Logic)
- **L09** Sust.-Red./Closed (Standard)
Warranty and Disclaimer

Nelson Irrigation Products and Accessories 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.

1000 SERIES
CONTROL OPTIONS

» ELECTRIC ON-OFF
Add a solenoid for electric on-off capability. The 3-way electric solenoid must be energized to open the valve and de-energized to close the valve.

» PRESSURE CONTROL
REDUCING OR SUSTAINING/RELIEF
Add a pressure control pilot to maintain a set upstream and/or downstream pressure. Nelson's new plastic pressure control pilot provides SIMPLE, ACCURATE & STABLE pressure controls plus:
» Lightweight
» Lower cost
» Easy to adjust without tools
» Corrosion resistant

CENTER PIVOT & SOLID SET

BIG GUN VALVE (BGV) FOR SOLID SET APPLICATIONS
Mount directly below an ANSI Big Gun: 2" for 75 or 100 Series Big Gun; 3" for 150 Series Big Gun

1000P - PRESSURE REGULATING AND/OR ELECTRIC ON/OFF CONTROL VALVE FOR R55 OR R75 END SPRINKLERS. Choose from threaded 2" or 1.25" FNPT inlet/outlet.

CENTER PIVOT END GUN VALVE CONTROL*

1000P - Valve installed directly below Big Gun.

1000P-V - Valve installed at outlet of booster pump.

*Booster pump controlled — does not require a solenoid.

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