

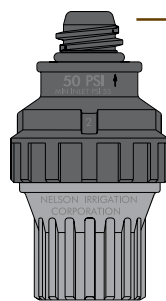
innovation in irrigation™

**NELSON**

# MINI REGULATOR & MINI REGULATOR DRAIN CHECK



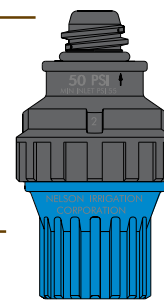
**R2000 ROTATOR®  
WITH MINI REGULATOR**



**MR**

**OUTLET**  
Direct Connection  
to Rotator Sprinklers

**INLET**  
1/2 FNPT (1.25 cm)  
or Female Acme Inlet



**MRDC**

## MINI REGULATOR (MR)

For accurate Pressure Regulation.  
Identified with a Gray Inlet.

### MR & MRDC

#### PRESSURE OPTIONS:

20 PSI (1.4 BAR); 30 PSI (2.0 BAR)  
35 PSI (2.4 BAR); 40 PSI (2.8 BAR)  
45 PSI (3.1 BAR); 50 PSI (3.4 BAR)

#### FLOW RANGE:

0.5 - 5 GPM (1.8-18.9 LPM)

## MINI REGULATOR DRAIN CHECK (MRDC)

The patented Mini Regulator Drain Check (MRDC) is a combination pressure regulator and check valve that provides a check feature to prevent system drain down through the sprinkler. Identified with a Blue Inlet.

## MRDC APPLICATIONS:

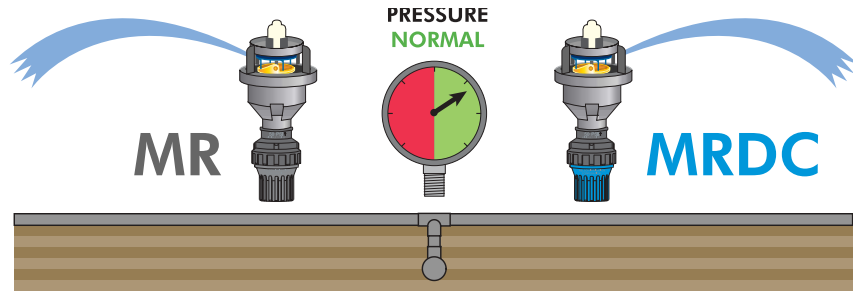
- 1 Portable irrigation systems**, to eliminate crop wash out from partially pressurized sprinklers during system start up and shut down.
- 2 Overhead cooling of apples and other crops**, to prevent drainage of the system in between frequent on and off cycles of the irrigation system.
- 3 Green house irrigation systems**, where sprinkler dripping or drainage after shut down cannot be tolerated.
- 4 Systems where pressure gains or losses are high due to uneven topography or high friction loss in pipes**, to ensure high uniformity and even flow of all sprinklers in a system.



**HOW THE MINI REGULATOR (MR) AND MINI REGULATOR DRAIN CHECK (MRDC) WORK:**

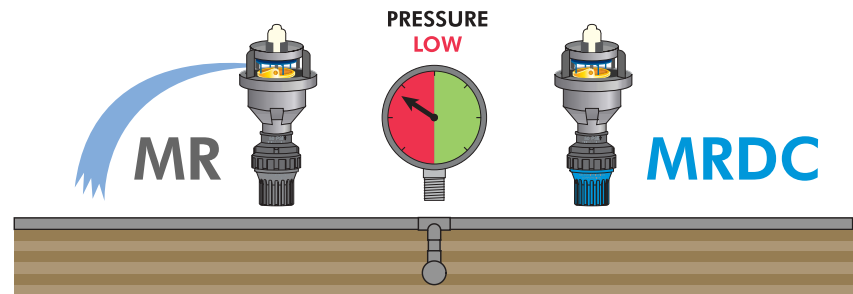
**NORMAL PRESSURE**

(with adequate pressure they both regulate)



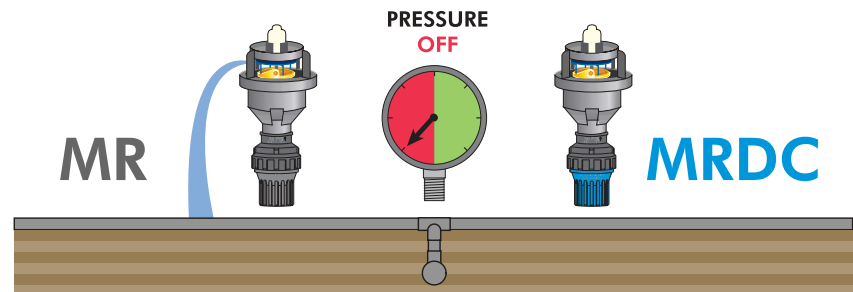
**LOW PRESSURE**

(neither regulate, the MR is open, the MRDC is closed to draining)



**DRAINING AFTER SHUT OFF**

(the MR is open, the MRDC is closed to draining)



Use the Nelson Pressure Gauge Tap assembly to check your system operating pressures at the inlet of the MRDC.

**SPECIAL WARNINGS!**

1. Always maintain a minimum of 5 PSI above the nominal pressure rating to avoid severe distortion of sprinkler distribution patterns and decreased flow.
2. Remove the MRDC and drain the irrigation system during freezing conditions to prevent damage to the MRDC and the irrigation system. THIS PRODUCT IS NOT RECOMMENDED FOR USE IN FREEZING CONDITIONS.
3. Partial plugging of the MRDC inlet can cause severe distortion of distribution patterns and decreased flow.
4. The maximum inlet pressure is 150 PSI.
5. This product requires flow through it to regulate pressure. IT IS NOT FOR USE IN CONTINUOUSLY STATIC CONDITIONS.

**WARRANTY AND DISCLAIMER:** The Nelson Mini Regulator and Mini Regulator Drain Check 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 product was 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. The Mini Regulator Drain Check is covered by the following U.S. Patents: 5875815, 5257646, and other pending US and Foreign Patents.