

# Pressure Regulators for Turf & Landscape Irrigation

SAVE WATER, SAVE ENERGY AND  
DO A BETTER JOB OF IRRIGATING



Nelson offers a full line of pressure regulating devices to meet the needs of a variety of irrigation applications.

## 1/2" MINI SERIES — 0.15 to 5 GPM

Pressure Regulating Options: 20, 30, 40 & 50 PSI

**Mini Regulator  
(MR)**



Pressure Regulator only

**Mini Drain Check  
(MDC)**



Drain Check\* only

**Mini Regulator  
Drain Check (MRDC)**



Combination Pressure Regulator  
and Drain Check\*

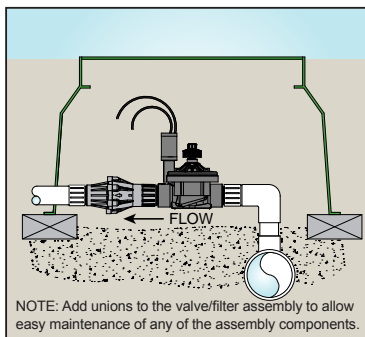
\*The Drain Check feature prevents drain down through the low heads.

## 3/4" & 1" PR SERIES PRESSURE REGULATORS 0.25 to 15 GPM

Pressure Regulating Options: 20, 25, 30, 40 & 50 PSI



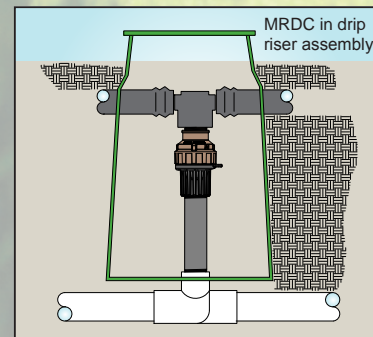
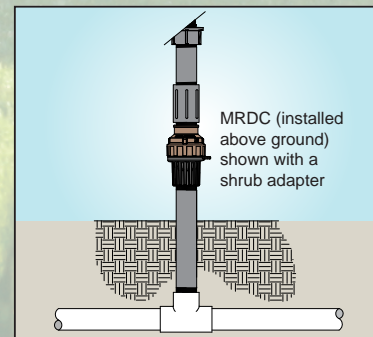
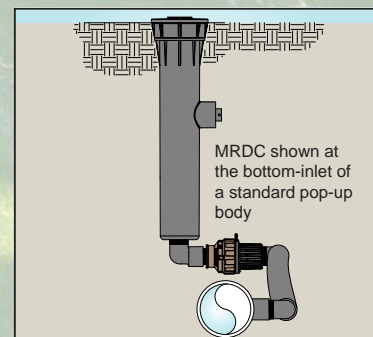
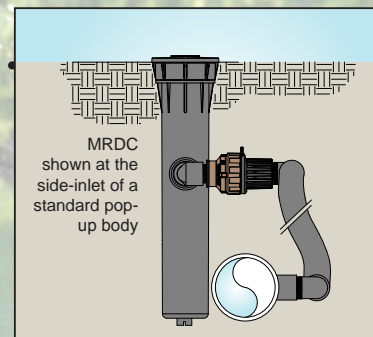
Pressure Regulator only



**APPLICATION EXAMPLE:** Placed downstream of the valve and/or filter assembly, the Nelson pressure regulator can provide years of trouble-free pressure control.

### TECHNICAL TIPS

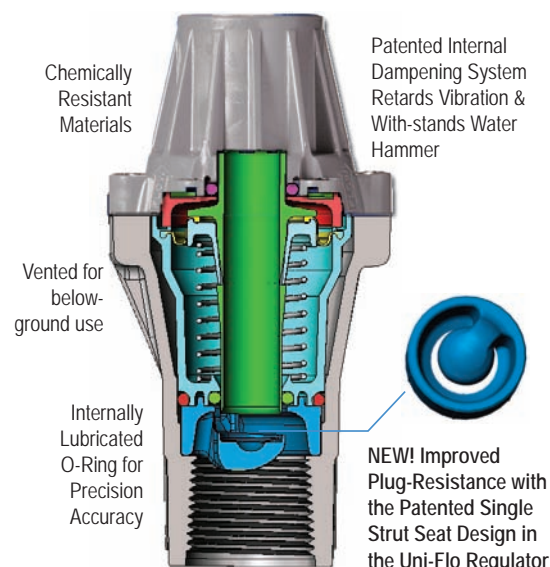
Add 5 PSI extra to the regulated pressure to allow for pressure loss through the regulator. For example, the minimum design pressure for a 20 PSI pressure regulator is 25 PSI.





## Technical Tips

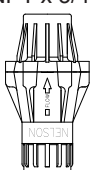
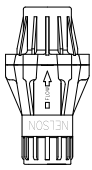
- Maximum inlet pressure 150 PSI.
- Add 5 PSI extra to the regulated pressure to allow for pressure loss through the regulator.
- Regulator should always be placed downstream of shut-off valves.
- Regulators are accurate within 6% of manufacturer's coefficient of variation.
- In climates subject to freezing conditions, use caution when using the Drain Check models. To prevent freeze damage, provide system drainage or blow out system with compressed air.
- Opening and closing pressures for MRDC:

<u>PRESSURE OPTION</u>	<u>PRESSURE TO OPEN</u>	<u>PRESSURE TO CLOSE</u>	<u>HOLD BACK ELEVATION</u>
20 PSI	12 PSI	9 PSI	20 ft.
30 PSI	23 PSI	15 PSI	35 ft.
40 PSI	28 PSI	19 PSI	44 ft.
50 PSI	38 PSI	29 PSI	67 ft.



MINI SERIES	Mini Regulator (MR)		Mini Drain Check (MDC)*			Mini Regulator Drain Check (MRDC)				
Thread Configuration	Pressure (PSI)	P/N	Option	P/N	Holdback Elevation	Pressure (PSI)	P/N	Holdback Elevation	Box Qty.	Lbs/ Box
 1/2" FNPT x 1/2" MNPT	20	11146-020	MDC20	11154-020	35'	20	11150-020	20'	50	7
	30	11146-030	MDC35	11154-035	60'	30	11150-030	35'	50	7
	40	11146-040				40	11150-040	44'	50	7
	50	11146-050				50	11150-050	67'	50	7
 1/2" MNPT x 1/2" MNPT	20	11148-020	MDC20	11156-020	35'	20	11152-020	20'	50	7
	30	11148-030	MDC35	11156-035	60'	30	11152-030	35'	50	7
	40	11148-040				40	11152-040	44'	50	7
	50	11148-050				50	11152-050	67'	50	7

\*The MDC20 requires 25 PSI and the MDC35 requires 40 PSI to fully open and function.

PR SERIES		PR 3/4" & PR 1" Pressure Regulators		
Thread Configuration	Pressure (PSI)	P/N	Box Qty.	Lbs/ Box
 3/4" FNPT x 3/4" FNPT	20	10895-020	50	14.5
	25	10895-025	50	14.5
	30	10895-030	50	14.5
	40	10895-040	50	14.5
	50	10895-050	50	14.5
 1" FNPT x 1" FNPT	20	11257-020	50	15
	25	11257-025	50	15
	30	11257-030	50	15
	40	11257-040	50	15
	50	11257-050	50	15

**WARRANTY AND DISCLAIMER:** Nelson Irrigation Corporation Pressure Regulators 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.

These product may be covered by one or more of the following U.S. Patent No. 5257646, 5875815, and other U.S. Patents pending or corresponding issued or pending foreign patents.



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