



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.

15 mm MINI SERIES — 0.5 to 19.0 LPM

Pressure Regulating Options: 1.4, 2.1, 2.8 & 3.5 BAR

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.

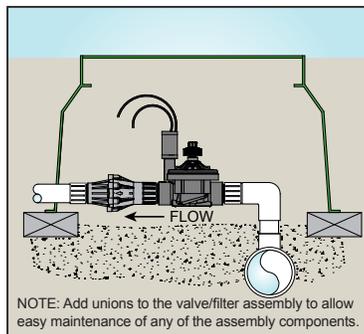
20 & 25 mm PR SERIES PRESSURE REGULATORS

1.0 to 55.0 LPM

Pressure Reg. Options: 1.4, 1.8, 2.1, 2.8 & 3.5 BAR



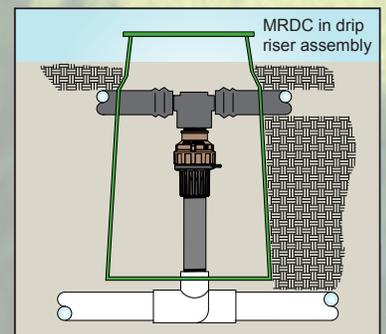
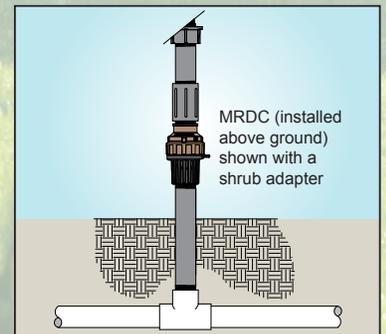
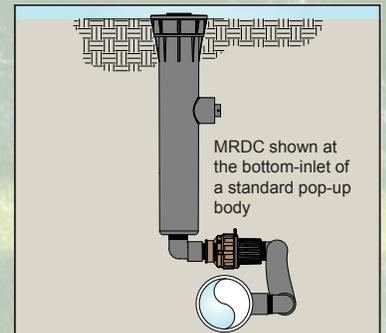
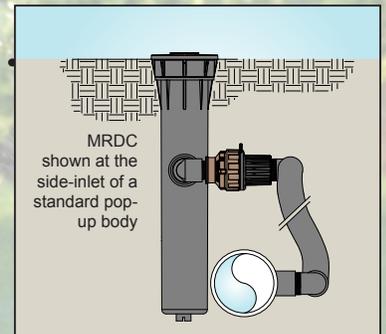
Pressure Regulator only



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

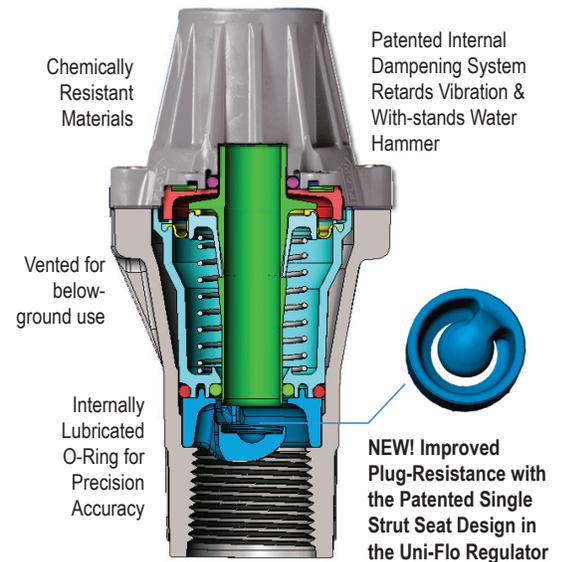
Add .4 BAR extra to the regulated pressure to allow for pressure loss through the regulator. For example, the minimum design pressure for a 1.4 BAR pressure regulator is 1.8 BAR.



Technical Tips

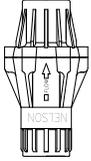
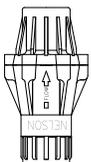
- Maximum inlet pressure 10 BAR.
- Add .4 BAR extra to the regulated pressure to allow for pressure loss through the regulator.
- Regulator should always be placed downstream of shut-off valves.
- Regulators are accurate within 6% of manufacturer's coefficient of variation.
- In climates subject to freezing 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>
1.40 BAR	.84 BAR	.63 BAR	6.1 m
2.10 BAR	1.61 BAR	1.05 BAR	10.6 m
2.80 BAR	1.96 BAR	1.33 BAR	13.4 m
3.50 BAR	2.66 BAR	2.03 BAR	20.4 m



MINI SERIES	Mini Regulator (MR)		Mini Drain Check (MDC)*			Mini Regulator Drain Check (MRDC)			Box Qty.	Kgs/Box
	Thread Configuration	Pressure (BAR)	P/N	Option	P/N	Holdback Elevation	Pressure (BAR)	P/N		
 15 mm FNPT x 15 mm MNPT	1.4	11146-020	MDC20	11154-020	10.6 m	1.4	11150-020	6.1 m	50	3.2
	2.1	11146-030	MDC35	11154-035	18.3 m	2.1	11150-030	10.6 m	50	3.2
	2.8	11146-040				2.8	11150-040	13.4 m	50	3.2
	3.5	11146-050				3.5	11150-050	20.4 m	50	3.2
 15 mm MNPT x 15 mm MNPT	1.4	11148-020	MDC20	11156-020	10.6 m	1.4	11152-020	6.1 m	50	3.2
	2.1	11148-030	MDC35	11156-035	18.3 m	2.1	11152-030	10.6 m	50	3.2
	2.8	11148-040				2.8	11152-040	13.4 m	50	3.2
	3.5	11148-050				3.5	11152-050	20.4 m	50	3.2

*The MDC20 requires 2.0 BAR and the MDC35 requires 2.8 BAR to fully open and function.

PR SERIES		PR 20 & 25 mm Pressure Regulators		
Thread Configuration	Pressure (BAR)	P/N	Box Qty.	Kgs/Box
 20 mm FNPT x 20 mm FNPT	1.4	10895-020	50	6.6
	1.8	10895-025	50	6.6
	2.1	10895-030	50	6.6
	2.8	10895-040	50	6.6
	3.5	10895-050	50	6.6
 25 mm FBSP x 25 mm FBSP	1.4	11420-020	50	6.8
	1.8	11420-025	50	6.8
	2.1	11420-030	50	6.8
	2.8	11420-040	50	6.8
	3.5	11420-050	50	6.8

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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