



## NITRO NINE

Consider 9 Compelling Reasons why the N-100 Series Nitro is the Smart Solution!

### 1 DURABLE MATERIAL

- 100% virgin material gives the Nitro added strength over conventional PVC valves
- Hydrostatic tests prove Nitro resistance to cracking at over 700 psi

### 2 EASY ACCESS COVER

- Combination hex, slot and Phillips retaining screws provide multiple access options and superior operation up to 150 psi
- Weathermatic installers will tell you they rarely need to open a Nitro valve

### 3 UNMATCHED MANUAL BLEED

- Send the Nitro into action by simply pulling the trigger
- It's the easiest, driest internal manual bleed in the business that won't flood the valve box
- No twisting on a solenoid or bleed screw is required

### 4 SHOCKING SHOCK CONE

- The Nitro puts the hammer to water hammer by incorporating a cone-shaped diaphragm base
- The shock cone interrupts the water flow more gradually than other diaphragms to enable quick valve closure without the damaging effect of water hammer

### 5 MULTIPLE CONNECTION CONFIGURATIONS

- Choose between 3 connection configurations: threaded, slip and male x barb

### 6 PRESSURE ACTIVATED DIAPHRAGM

- Pressure activated diaphragm ensures reliable operation with no leakage at pressures up to 150 psi



### 7 REVOLUTIONARY REVERSE FLOW DESIGN

*The Weathermatic hallmark reverse flow design with a 45-year track record brings you:*

- Reverse flow design means the valve fails shut rather than open in the event of diaphragm failure, unlike conventional forward flow valves that fail open
- Balanced pressure on the diaphragm extends valve diaphragm life beyond forward flow valves
- Self-cleaning function is achieved as diaphragm actually flexes during operation to send dirt and debris down the line without the maintenance worry of filters and screens

### 8 5 YEAR TRACK RECORD

- The Nitro track record shows less than a fraction of 1% return rate over 5+ years of reliable performance

### 9 AMAZING VALUE FOR THE PRICE!

- Seasoned installers know that valves are the last place to cut expenses when just one call-back eliminates any cost savings on the job
- Plus, the Nitro makes it easy – you can install the commercial quality of a Weathermatic valve at a residential valve price!



**N-100 SERIES – NITRO REMOTE CONTROL VALVE**

**FEATURES**

- 100% water tested
- 150 psi (10,3 bar) rating
- Unique “reverse flow” design permits equal pressure distribution on both sides of the diaphragm, regardless of line pressure, providing zero stress to prevent “stretching,” a common cause of valve failure
- Reverse flow design for water conservation in the event of failure
- Diaphragm’s self cleaning ports constantly flex, inhibiting sand and silt from blocking valve action
- Molded shock cone for smooth operation and reduction of water hammer
- Easy-to-use internal manual bleed lever; bleeds valve downstream; has positive stops for open and closed positions
- Marine-grade S20P solenoid with stainless steel actuator
- Engineering grade PVC body and cover with combination hex, slot and Phillips retaining screws
- Non-rising flow control stem throttles valve from full open to closed position on flow control models

**ELECTRICAL**

- Wiring requires a single lead from the controller to each solenoid, plus a common neutral to all solenoids; type UF wire, U.L. listed, is recommended for all hookups

24VAC/60HZ	24VAC/50HZ
Inrush: 9.48 VA	Inrush: 10.66 VA
Holding: 5.11 VA	Holding: 5.97 VA

- Do not use nominal voltage ratings listed above for sizing of valve wire

**MODELS**

- N-100-H** 1" FIP\*
- N-100F-H** 1" FIP with flow control\*
- N-100S-H** 1" SLIPxSLIP
- N-100SF-H** 1" SLIPxSLIP with flow control
- N-100MB-H** 1" Male x Barb
- N-100MBF-H** 1" Male x Barb with flow control

\* International: specify ISO



N-100-H



N-100F-H



N-100S-H

**N-100 SERIES VALVE PRESSURE LOSS**

STANDARD		METRIC	
Flow gpm	Loss psi	Flow m <sup>3</sup> /hr	Loss bar
0-4	1.2 max	0-1,0	0,09 max
4	1.2	1,0	0,09
6	1.7	1,5	0,14
8	2.5	2,0	0,19
10	3.0	2,5	0,22
12	3.4	3,0	0,25
14	3.8	3,5	0,28
16	4.1	4,0	0,30
18	4.4	4,5	0,32
20	4.6	5,0	0,33
22	4.8	5,5	0,35
24	5.1	6,0	0,38
26	5.4	6,5	0,41
28	5.8	7,0	0,45
30	6.3	7,5	0,47
32	6.6	8,0	0,50
35	7.3	8,5	0,51

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N-100MB-H



N-100SF-H



N-100MBF-H