Technical Specifications

N-100 SERIES - NITRO REMOTE CONTROL VALVE

FEATURES

- 100% water tested
- 150 psi (10,3 bar) rating
- Unique "reverse flow" porting 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
- Normally closed valve for water conservation
- 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 down-stream; has stops for open and closed positions
- High efficiency 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/60 Hz	24VAC/50 Hz
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
(1 in. FIP)*

N-100F
(1 in. FIP with flow control)*

N-100S
(1 in. SLIPxSLIP)*

N-100SF
(1 in. SLIPxSLIP with flow control)*

N-100MB
(1 in. MALExBARB)*

N-100MBF
(1 in. MALExBARB with flow control)*

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Technical Specifications

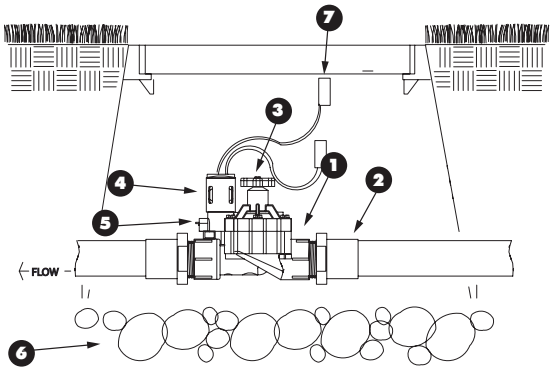
N-100 SERIES - NITRO REMOTE CONTROL VALVE

Remote control valve shall be No. N-100 Nitro series Valves as manufactured by Weathermatic Sprinkler Division of Telsco Industries, or approved equal, with hand operated manual internal bleed. Valve shall be a solenoid operated, diaphragm, reverse flow type, with 150 psi CWP rating, having 1-inch connection for slip (no. N-100S); male thread by barb (N-100MB); or FIP threads (N-100)(optional ISO) and suitable for underground burial without protection.

Construction: Valve body and cover shall be of temperature resistant PVC with a stainless steel spring. Cover shall be secured to body with stainless screws having a nut driver head for ease of removal. Diaphragm shall be chlorine resistant Santoprene® and shall utilize a conical base to reduce water hammer. Design shall be reverse flow causing automatic closure in event of diaphragm wall failure. Valve shall be packless, without sliding seals, and completely serviceable without removing body from pipeline. Design shall be "normally closed" requiring solenoid to be energized to open valve, thereby causing automatic closure in event of power failure. Solenoid shall comply with Class II National Electric Code and when operating require a maximum of 6.2 VA at 24 volts ac. Solenoid shall be integrally mounted in valve cover and encapsulated in molded-resin to form a corrosion and moisture-proof unit with exposed metal components of non-corrosive material.

Operation: Solenoid shall be energized to open the valve hydraulically and de-energized to close. Pressure to the hydraulic chamber shall be supplied internally through non-metallic, corrosion-free orifices in the diaphragm causing a cleansing action of the orifices. Contamination resistance shall be provided without the use of screens, filters or strainers. In event of tear in diaphragm wall valve shall remain in the closed position. Minimum flow range shall be no greater than 1 GPH.

Warranty: The valve shall have a manufacturer's over the counter exchange warranty of not less than two (2) years.



N-100F SERIES VALVE

1. WEATHERMATIC N-100F SERIES REMOTE CONTROL VALVE
2. INSTALL THREADS MALE ADAPTER WITH TEFLON TAPE/TYP.
3. FLOW CONTROL
4. SOLENOID
5. MANUAL BLEED LEVER
6. 3/4 INCH GRAVEL SUPPORTER
7. EXPANSION COIL & WATERPROOF CONNECTOR

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