1", 1 ½", 2", and 3" IBV Irrigation Control Valve Written Specifications

**Part 1 – General**

1.1The valve shall be a 1" (25 mm), 1½" (40 mm), 2" (50 mm), or 3" (80 mm) solenoid operated irrigation control valve available in a design utilizing bonnet bolts. The valve shall accept a Hunter AC or DC solenoid.

**Part 2 – Parts and Material**

2.1IBV valves shall be available in the following options:

A. With standard flow control, globe valve configuration, NPT or BSP threads (body), standard Filter Sentry® technology, AC or DC solenoid.

 B. Dimensions

 1. IBV-101G-FS

* + - * Height: 5¼" (14 cm)
			* Length: 4½" (12 cm)
			* Width: 3" (8 cm)

 2. IBV-151G-FS

* + - * Height: 6½" (17 cm)
			* Length: 6" (15 cm)
			* Width: 5¼" (15 cm)

 3. IBV-201G-FS

* + - * Height: 7" (18 cm)
			* Length: 6" (15 cm)
			* Width: 5¼" (15 cm)

 4. IBV-301G-FS

* + - * Height: 9" (23 cm)
			* Length: 8½" (22 cm)
			* Width: 7" (18 cm)

 C. Material description

 1. The body and bonnet shall be constructed of cast leaded semi-red brass (84400).

 2. The diaphragm shall feature a double-beaded seal design and be constructed of fabric-reinforced EPDM.

2.2 Warranty

A. The valve shall be installed in accordance with the manufacturer’s published instructions. The valve shall carry a conditional five-year exchange warranty. The irrigation valve(s) shall be the IBV series irrigation valve as manufactured by Hunter Industries Incorporated, San Marcos, California.

**Part 3 – Function and Operation**

3.1 Electric remote control valve

A. Cast brass body and bonnet, normally closed, diaphragm type with optional manual flow adjustment, and operated by a 24 VAC solenoid for residential and commercial/institutional applications.

 B. Operating pressure

 1. Recommended pressure range: 20 to 220 PSI (1.5 to 15 bar; 150 to 1500 kPa)

 C. Flow rate

 1. IBV-101G: 0.1 to 40 GPM (0.06 to 9 m3/hr; 0.4 to 150 l/min)

 2. IBV-151G: 20 to 150 GPM (4 to 34 m3/hr; 75 to 568 l/min)

 3. IBV-201G: 40 to 200 GPM (9 to 45 m3/hr; 150 to 757 l/min)

 4. IBV-301G: 150 to 300 GPM (34 to 68 m3/hr; 570 to 1135 l/min)

 D. Solenoid power

1. The standard solenoid shall be a 24 VAC unit with a 350 mA inrush current and 190 mA holding current at 60 cycles and a 370 mA inrush current and 210 mA holding current at 50 cycles. When specified, the unit shall be equipped with a DC latching solenoid for use with 12-volt battery-operated controllers. The solenoid shall be an encapsulated, one-piece unit with a captive plunger. It shall be equipped with manual internal bleed capability to release the upper chamber water to the downstream piping, allowing the valve to open. The valve shall have an internal manual bleed screw that provides an additional method for manual operation of the valve.

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