

# VALTICINO

## Technical Specifications

### ZV-75-100 - REMOTE CONTROL VALVE

#### FEATURES

- 2 year warranty and 100% water tested
- 150 psi (10,3 bar) rating
- High-efficiency solenoid for positive opening at high pressures.
- Normally closed valve for water conservation
- Diaphragm's self cleaning ports constantly flex, inhibiting sand and silt from blocking valve action
- Brass shock cone for smooth operation and reduction of water hammer
- Easy-to-use internal manual bleed lever; bleeds valve downstream; has stops for open and closed positions
- High-strength glass-filled body and cover with ¼ in. stainless steel cover bolts
- Excellent for micro-irrigation
- Contamination resistant (CR)
- EPDM Chloramine resistant diaphragm

#### 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 24 VAC/50 Hz

Inrush: 200 m.Amps

Holding: 180 m.Amps

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

#### INSTALLATION

- Teflon tape is recommended

ZV-100 Series Valve Pressure Loss			
Flow gpm	Loss PSI	Flow m3/hr	Loss BAR
0-4	1.2 max	0-1,0	0,05 max
4	1.2	1,0	0,05
6	1.7	1,5	0,10
8	2.5	2,0	0,15
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

ZV-75 Series Valve Pressure Loss			
Flow gpm	Loss PSI	Flow m3/hr	Loss BAR
0-4	1.2 max	0-1,0	0,07 max
4	1.2	1,0	0,07
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	0,35



ZV-100-24AC

ZV-100-DC

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### **ZV-75-100 - REMOTE CONTROL VALVE**

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**REMOTE CONTROL VALVES** shall be No. ZV-75-100 as manufactured by VALTICINO, or approved equal, with hand operated manual internal bleed and flow control. Valve shall be solenoid-operated, diaphragm, reverse flow globe type, with 150 psi CWP rating, having ISO threads (3/4" and 1-inch) and be suitable for underground burial without protection.

**CONSTRUCTION:** Valve shall have glass-filled, high strength plastic body and cover with stainless steel spring. Cover shall be secured to body with stainless steel cover bolts. Diaphragm shall be EPDM chlorine/chloramine resistant, molded material with seat to form an integral unit.

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 180 m.Amps 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. Solenoid actuator shall be stainless steel. Flow control shall be

plastic non-rising type with O-ring seal and adjustable from outside the valve for permanent throttling or complete closing of valve. Valve shall accept the r.

The diaphragm assembly should have a shock cone to dampen pressure fluctuations and ensure smooth operation.

**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 with stroke of diaphragm causing a cleansing action of the orifices. There shall be no external bleeding or external tubing to furnish actuating pressure.

**WARRANTY:** The valve shall have a manufacturer's limited warranty of not less than two (2) years.