

21000 SERIES – BLACK BULLET REMOTE CONTROL VALVE

FEATURES

- 5 year trade warranty and 100% water tested
- 200 psi (13,8 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
- 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
- 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
- Marine-grade S20P solenoid with stainless steel actuator
- High-strength glass-filled body and cover with ¼" stainless steel cover bolts and mating brass body inserts
- Brass non-rising flow control stem throttles valve from full open to closed position
- Excellent for low volume irrigation
- Contamination-resistant (CR)
- Chlorine- and chloramine-resistant EPDM diaphragm material

OPTIONS (FACTORY INSTALLED)

- XPR Pressure Regulator—the Weathermatic XPR pressure regulating module senses inlet pressure and maintains constant outlet pressure (see PRK-24 in valve accessory section for specifications)
- Non-potable alert flow handle may be substituted for the standard flow handle. Add -NP suffix.

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

INSTALLATION

- Teflon tape is recommended
- 1" FIP can be bushed to ¾"
- 1 ½" FIP can be bushed to 1 ¼"

MODELS

| | |
|--------------------|-----------|
| 21024E-10-H | 1" FIP* |
| 21024E-15-H | 1 ½" FIP* |
| 21024E-20-H | 2" FIP* |

* International: specify ISO



21000 SERIES VALVE

STANDARD (pressure loss PSI)

| Flow gpm | 21024E-10-H 1" | 21024E-15-H 1 ½" | 21024E-20-H 2" |
|----------|-------------------|---------------------|-------------------|
| 0-4 | 1.2 max | | |
| 6 | 1.4 | | |
| 8 | 1.6 | | |
| 10 | 1.7* | | |
| 15 | 2.0 | | |
| 20 | 2.3 | 1.3* | |
| 25 | 3.0 | 1.6 | |
| 30 | 4.3 | 1.9 | |
| 35 | 6.0 | 2.4 | |
| 40 | 7.7 | 3.0 | 2.3* |
| 45 | 9.5 | 3.8 | 2.4 |
| 50 | 11.5 | 4.6 | 2.6 |
| 55 | | 5.6 | 2.7 |
| 60 | | 6.7 | 2.9 |
| 70 | | 9.5 | 3.3 |
| 80 | | 13.0 | 3.4 |
| 90 | | | 4.2 |
| 100 | | | 5.2 |
| 110 | | | 6.7 |
| 120 | | | 7.7 |
| 130 | | | 8.8 |

METRIC (pressure loss Bar)

| Flow m³/h | 21024E-10-H 1" | 21024E-15-H 1 ½" | 21024E-20-H 2" |
|-----------|-------------------|---------------------|-------------------|
| 0-0,9 | 0,08 max | | |
| 1,0 | 0,10 | | |
| 2,0 | 0,12 | | |
| 2,5 | 0,13* | | |
| 3,0 | 0,14 | | |
| 5,0 | 0,18 | 0,10* | |
| 6,0 | 0,24 | 0,12 | |
| 7,0 | 0,32 | 0,14 | |
| 8,0 | 0,43 | 0,17 | |
| 9,0 | 0,54 | 0,21 | 0,16* |
| 10,0 | 0,64 | 0,26 | 0,17 |
| 11,0 | 0,77 | 0,31 | 0,17 |
| 12,0 | | 0,37 | 0,18 |
| 14,0 | | 0,51 | 0,20 |
| 16,0 | | 0,68 | 0,23 |
| 18,0 | | 0,90 | 0,23 |
| 20,0 | | | 0,29 |
| 22,0 | | | 0,34 |
| 24,0 | | | 0,42 |
| 26,0 | | | 0,50 |
| 30,0 | | | 0,62 |

* Minimum recommended flow for valves with XPR option or PRK-24 accessory.

DOWNLOAD TECH SPECS AT:
www.weathermatic.com