Submittal Data Sheet

Features

- Five year parts and one year labor limited warranty*
- Meets NFPA 99 zone valve box guidelines
- Valves may be piped from left to right or right to left
- Valves include patented E Z Backfeed™ feature which allows backfeeding of zone without disturbing patients or occupying patient rooms for backfeeding
- All valves are dual gauge port full port ball valves
- 3 piece in-line repairable valves
- Adjustable packing with blow-out proof stem design
- Accommodate up to 8 valves sizes from ½” to 2”
- Valves to have a working pressure of 600 psi (29 in/Hg vacuum)
- All valves cleaned for Oxygen service
- Plastic insulators to protect from galvanic corrosion
- Provided with 1 ½” diameter gauges
- NFPA and ISO color coded gas labels in English, English/French and English/Spanish
- Smoked” Translucent flexible plastic window provided with all models except ISO English/French
- White Opaque flexible plastic window provided with ISO English/French models.

* See Terms and Conditions, Document No. 99-0477, on our website at: www.tri-techmedical.com for complete details.

Specification

All zone valves shall be Tri-Tech Medical E V series and must be installed and tested in strict accordance with NFPA 99 standards and or any other local codes before use.

NFPA Health Care Facilities Handbook (1996 edition), section 4-3.1.1.4 states: “Backfeeding is a way of pressurizing a piped gas system through a station outlet and is opposite to the normal way of pressurizing a system. It is sometimes done when the supply source is interrupted or portions of the system need to be shutdown. This is a very poor practice. Station outlets were designed for flow in an outward direction.” With E Z Backfeed valves in a medical facility’s zone valve boxes this concern is eliminated.

Valves – The valves shall be dual gauge port, cast bronze, ball-type, with Teflon (TFE) seats and seals. All valves shall be rated at a working pressure of 600 psi (29 in/Hg vacuum) and shall be operated by a lever-type handle, requiring only a quarter turn from a fully open position to a fully closed position. Only full port valves having flow rates comparable to equivalent size of pipe shall be used. Valves shall be able to be piped from left to right or right to left. Valve(s) shall include single or dual DISS gas specific backfeed port(s). Backfeed port(s) shall allow backfeeding of gas without interruption of gas service.

All valves shall be provided with type K copper tubing extensions to facilitate installation. Valves shall be 3 piece in-line repairable type. Each valve assembly shall be supplied cleaned for oxygen service in accordance with current CGA standards. The valve tube ends shall be capped and sealed in a protective container to prevent contamination prior to installation.

Gauges shall be 1 ½” diameter for monitoring pressure and vacuum, and shall state: “USE NO OIL”. Dual scale gauges are not acceptable for U.S.A. installations.

Box – The valve box shall be 18 gauge sheet steel construction painted to prevent rust. A single box shall house from one to eight valves. Box shall be supplied with an adjustable plaster flange ½” to 1 1/8” for easy mounting.

Window – Valve box assembly shall be supplied with a formed steel decorative frame painted white which encloses an easily removable flexible window. The window shall be a “smoked” translucent on NFPA models and a white opaque on ISO English/French models, flexible plastic with a pull-out ring pre-mounted to the center of the window. The window shall not be replaceable while any valve is in a closed position. Window shall be silk screened with the following statement “CAUTION: MEDICAL GAS SHUTOFF VALVES. CLOSE ONLY IN EMERGENCY.”
Tri-Tech Medical Inc.

E V Series Zone Valve Box
with EZ Backfeed™

Valve Size | Copper Tube Extension
--- | ---
1/2”, 3/4” | 5.000 Approx (12.7cm)
1”, 1-1/4” | 5.375 Approx (13.65cm)
2” | 5.750 Approx (14.61cm)

Rough Opening Height Dimension for “X”

<table>
<thead>
<tr>
<th>IN</th>
<th>CM</th>
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<tbody>
<tr>
<td>1 valve</td>
<td>10.125</td>
</tr>
<tr>
<td>2 valves</td>
<td>16.125</td>
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<tr>
<td>3 valves</td>
<td>22.125</td>
</tr>
<tr>
<td>4 valves</td>
<td>28.125</td>
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<tr>
<td>5 valves</td>
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<tr>
<td>7 valves</td>
<td>46.125</td>
</tr>
<tr>
<td>8 valves</td>
<td>52.125</td>
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</tbody>
</table>
How to Order: Easy to use modular ordering system. 
*Fill in the blanks to specify the Zone Valve Box that meets your needs.*

**Model Numbering:**

| EV | C | N | P | S | G | E | S | G | E | S | G | E | S | G | E | S | G | E |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Repeat 3 character set for each valve

- **E = EZ Option**
  - Q – 1 Port
  - B – 2 Ports
  - X – No EZ Option

- **G = Gas Service**
  - A – Medical Air
  - C – Carbon Dioxide – 50 psig
  - D – Carbon Dioxide – 80 psig
  - H – Hyperbaric Oxygen
  - I – Instrument Air
  - J – Carbon Dioxide-Oxygen Mixt DISS 1080 (CO2>7%)
  - K – Helium-Oxygen Mixt DISS 1060 (He>80%)
  - L – Helium
  - N – Nitrous Oxide
  - O – Oxygen
  - R – Tri-Gas
  - S – AGSS
  - T – Nitrogen
  - V – Medical Vacuum
  - W – WAGD/EVAC
  - X – No Gas

- **S = Size of Valve**
  - 2 – 1/2” valve
  - 3 – 3/4” valve
  - 4 – 1” valve
  - 5 – 1 1/4” valve
  - 6 – 1 1/2” valve
  - 7 – 2” valve
  - X – No valve

- **P = Port Position on Valves**
  - R – Right Side
  - L – Left Side

- **N = Number of Valves**
  - 1 Through 8

- **C = Country**
  - U – Tri-Tech Labeled NFPA Color Code English
  - S – Tri-Tech Labeled ISO Color Code English/Spanish
  - 1 – Tri-Tech Labeled ISO Color Code English/French
  - N – Tri-Tech Labeled NFPA Color Code Spanish

**EV = Type of Valve Box**

- EV – Zone Valve Box

**Part No. Examples**

- **EVU3R2AB3OB5VB** = 3 gas valve box with 2 port option feature and gauges on right side only of all 3 valves with 1/2” AIR, 3/4” OXY, 1 1/4” VAC valves with U.S. Labels

- **EVU2R2NQ3OQ** = 2 gas valve box with 1 port option feature and gauges on right side of both valves with 1/2” N2O, 3/4” OXY valves with U.S. Labels