



# Circuit Setter<sup>®</sup> Plus

Calibrated balance valves from 1/2" to 3"

## Part 1 General

### 1.01 Section includes

- A. Unit shall be a Bell & Gossett<sup>®</sup> Circuit Setter Plus calibrated balance valve Model CB or Model MC as manufactured by Xylem.
- B. Furnish calibrated balance valve with capabilities as indicated in the plans.

### 1.02 Related sections

- A. Section 23 08 00 – Commissioning of HVAC

### 1.03 References

- A. ANSI – American National Standards Institute.
- B. ISO – International Standards Organization.

### 1.04 Submittals

- A. Submit data cover sheet.
- B. Dimensional print(s).
- C. Sales bulletin.
- D. Installation, operation & maintenance manual.

### 1.05 Quality assurance

- A. The Valve manufacturer shall be fully certified by the International Standards Organization per ISO 9001.
- B. The manufacturer shall carry a minimum product liability insurance of \$5,000,000.00 per occurrence.

### 1.06 Maintenance material submittals

## Part 2 Products

### 2.01 Manufacturers

- A. Subject to compliance with these specifications, the following manufacturers shall be acceptable:
  - 1. Calibrated balance valve
    - a. Xylem Inc. Bell & Gossett Circuit Setter Plus calibrated balance valve Model CB or Model MC
    - b. Pre-approved equal

## 2.02 Components

### A. Calibrated balance valve (1/2" – 3")

1. Valve body shall be constructed out of lead-free brass.
2. Valve shall include a ball valve constructed in 304 Stainless Steel.
3. Model CB: Valve shall be AB1953 and CSA certified and compliant with Vermont 152S, Maryland House Bill HB372, Senate Bill S.3874 and NSF/ANSI-372.
4. Valve body shall include two pressure/temperature ports.
5. Valve body shall include an optional drain valve port.
6. Valve shall utilize a calibrated nameplate with a memory stop.
7. Valve shall utilize a reduced port design that provides velocity head recovery.
8. Valve temperature range shall be from -4°F (-20°C) to 250°F (121°C) for NPT female thread and Sweat female connections or 32°F (0°C) to 200°F (93°C) for Press Fit end connections.
9. Model CB: Valve shall have either NPT female thread, Sweat female or Press Fit end connections.
10. Model CB: Valves with NPT end connections shall be rated for 400 PSIG working pressure.
11. Model CB: Valves with SWTF end connections shall be rated for a maximum of 300 PSIG working pressure.
12. Model CB: Valves with Press Fit end connections shall be rated for a maximum of 200 PSIG working pressure.
13. Model MC: Valves with NPT female or Sweat female connections shall be rated for 300 PSIG working pressure. Valves with Press fit end connections shall be rated for 200 PSIG working pressure.
14. Model MC: Valve shall include an NPT female thread, Sweat female, or Press Fit fixed end connection on the discharge end and a union tailpiece adapter with choice of NPT female thread, NPT male thread, Sweat female, or Press Fit union tailpiece connection on the supply end. The union tailpiece should include an o-ring and union nut that can secure the tailpiece to the tailpiece adapter to create a water-tight seal.

## 2.03 Accessories

### A. Calibrated balance valve accessories

1. Extended pressure/temperature ports
2. Drain valve/extended drain valve

## Part 3 Execution

### 3.01 Installation

- A. Install a calibrated balance valve in accordance with manufacturer's instructions.
- B. Unit shall be a Bell & Gossett Circuit Setter Plus calibrated balance valve Model CB or Model MC as manufactured by Xylem.

End of section



Learn more about  
Circuit Setter Plus valves

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