

**SPECIFICATIONS** Circuit Setter® Plus

Calibrated Balance Valve

Sizes ½” thru 3”

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SECTION 23 05 93

Testing, Adjusting, and Balancing for HVAC

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

# Unit shall be a Bell & Gossett® Circuit Setter® Plus calibrated balance valve Model CB or Model MC as manufactured by Xylem.

# Furnish calibrated balance valve with capabilities as indicated in the plans.

**1.02 RELATED SECTIONS**

1. Section 23 08 00 – Commissioning of HVAC

**1.03 REFERENCES**

1. ANSI - American National Standards Institute.
2. ISO - International Standards Organization.

**1.04 SUBMITTALS**

1. Submit data cover sheet.
2. Dimensional print(s).
3. Sales bulletin.
4. Installation, operation & maintenance manual.

**1.05 QUALITY ASSURANCE**

1. The Valve manufacturer shall be fully certified by the International Standards Organization per ISO 9001.

# 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**

# Subject to compliance with these specifications, the following manufacturers shall be acceptable:

1. Calibrated Balance Valve
   1. Xylem Inc. Bell & Gossett Circuit Setter Plus calibrated balance valve Model CB or Model MC
   2. Pre-approved equal

**2.02 COMPONENTS**

1. Calibrated Balance Valve (½” – 3”)
2. Valve body shall be constructed out of lead free brass
3. Valve shall include a ball valve constructed in 304 Stainless Steel.
4. Valve shall be AB1953 and CSA certified and compliant with Vermont 152S, Maryland House Bill HB372, Senate Bill S.3874, and NSF/ANSI-372.
5. Valve body shall include two pressure/temperature ports.
6. Valve body shall include an optional drain valve port.
7. Valve shall utilize a calibrated nameplate with a memory stop.
8. Valve shall utilize a reduced port design that provides velocity head recovery.
9. Valve temperature range shall be from -4°F (-20°C) to 250°F (121°C).
10. **Model CB:** Valve shall have either NPTF thread or SWTF end connections.
11. **Model CB:** Valves with NPT end connections shall be rated for 400 PSIG working pressure.
12. **Model CB:** Valves with SWTF end connections shall be rated for a maximum of 300 PSIG working pressure.
13. **Model MC:** Valve shall be rated for 300 PSIG working pressure
14. **Model MC:** Valve shall include a SWTF or NPTF fixed end connection on the discharge end and a union tailpiece adapter with choice of SWTF, NPTF thread, or NPTM thread tailpiece connection on the supply end. The union tailpiece end should include a union nut that can secure the tailpiece to the body of the valve to create a water-tight seal.

**2.02 ACCESSORIES**

1. Calibrated Balance Valve Accessories
2. Extended Pressure/Temperature Ports
3. Drain Valve/Extended Drain Valve

**PART 3 EXECUTION**

* 1. **INSTALLATION**

1. Install calibrated balance valve in accordance with manufacturer’s instructions.

# Unit shall be a Bell & Gossett Circuit Setter Plus calibrated balance valve Model CB or Model MC as manufactured by Xylem.

###### END OF SECTION



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