



Bell & Gossett
a xylem brand

SPECIFICATIONS

Circuit Sentry™ Wafer Valve
Pressure Independent Flow Limiting Valve
Sizes 2½" thru 20"
BGCSFLWV-SP-10003

SECTION 23 05 93

Testing, Adjusting, and Balancing for HVAC

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Unit shall be a Bell & Gossett® Circuit Sentry™ Wafer Valve pressure independent flow limiting valve Model WV as manufactured by Xylem.
- B. Furnish pressure independent flow limiting 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. Pressure Independent Flow Limiting Valve
 - a. Xylem Inc. Bell & Gossett Circuit Sentry Wafer Valve pressure independent flow limiting valve Model WV
 - b. Pre-approved equal

2.02 COMPONENTS

- A. Pressure Independent Flow Limiting Valve
 - 1. Valve body shall be constructed out of ductile iron and rated for 250 PSIG working pressure.
 - 2. Valve body shall include two 2" extended pressure/temperature ports.
 - 3. Valves 2½" thru 3" shall utilize a single removable differential pressure regulating cartridge. Valves 4" thru 20" shall utilize multiple removable differential pressure regulating cartridges.
 - 4. Removable differential pressure cartridge(s) shall utilize a removable orifice plate to set the maximum flow through the valve.

Circuit Sentry Wafer Valve Specifications

5. Removable orifice plate shall be designed to maintain its size and shape while system is in operation. Additionally, the Cv through the orifice plate shall not change while the system is in operation.
6. Removable differential pressure cartridge(s) shall feature a rolling EPDM rubber diaphragm to eliminate metal-on-metal contact and leak paths.
7. Valve body shall be compatible with ANSI Class 125#, 150#, and 250# flanges.
8. Valve shall have maximum differential pressure limit of 60 psid.
9. Valve temperature range shall be from -4°F (-20°C) to 230°F (111°C).

2.02 ACCESSORIES

- A. Pressure Independent Flow Limiting Valve Accessories
 1. Extended Pressure/Temperature Ports

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install pressure independent flow limiting valve in accordance with manufacturer's instructions.
- B. Unit shall be a Bell & Gossett Circuit Sentry Wafer Valve pressure independent flow limiting valve Model WV as manufactured by Xylem.

END OF SECTION



Xylem Inc.
8200 N. Austin Avenue
Morton Grove, Illinois 60053
Phone: (847) 966-3700
Fax: (847) 965-8379
www.xylem.com/bellgossett

Xylem and Bell & Gossett are trademarks of Xylem Inc. or one of its subsidiaries.
© 2022 Xylem Inc. BGCSFLWV-SP-10003 R1 May 2022