

**SPECIFICATIONS** Triple Duty Valve – Straight Pattern

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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® Triple Duty® Valve, as manufactured by Xylem.

# Furnish Triple Duty Valve with capabilities as indicated in the plans.

**1.02 RELATED SECTIONS**

1. Section 23 01 70 – Operation & Maintenance of Central HVAC Equipment
2. Section 23 08 00 – Commissioning of HVAC
3. Section 23 05 23 – General Duty Valves for HVAC Piping
4. Section 23 20 00 – HVAC Piping and Pumps
5. Section 23 21 13 – Hydronic Piping
6. Section 23 21 16 – Hydronic Piping Specialties
7. Section 23 21 23 – Hydronic Pumps
8. Section 23 21 23.13 – In-Line Centrifugal Hydronic Pumps
9. Section 23 21 23.16 – Base-Mounted, Centrifugal Hydronic Pumps
10. Section 23 21 23.19 – Vertical-Mounted, Double-Suction Centrifugal Hydronic Pumps

**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 product 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. Triple Duty Valve
2. Xylem Inc. Bell & Gossett® Model 3DS-\_\_S, 3DS-\_\_B, or 3DS-\_\_G.
3. Pre-approved equal.

**2.02 COMPONENTS**

1. Triple Duty Valve
2. The valve shall be a straight pattern, non-adjustable design.
3. The valve shall be a globe valve design.
4. The valve shall have a spring-loaded check valve design to prevent gravity circulation and backflow.
5. The valve shall have a calibrated nameplate with multi-turn stem.
6. The valve shall include a rubber memory button to allow the valve to be re-balanced to its original position after shut-off or maintenance.
7. The valve shall have a fully backseating disc to allow the valve packing to be replaced while under pressure.
8. The valve body shall be made of either cast iron or ductile iron.
9. The valve disc shall be made of brass with an EPDM rubber seat.
10. The valve stem shall be made of stainless steel.
11. The valve spring shall be made of stainless steel.
12. The valve shall be available with either flanged end connections or grooved end connections.
13. Flange end connections should be designed according to ANSI Class 150 Standards.
14. Valve models with flange x flange end connections shall be rated for 175 psi (1,207 kPa) maximum working pressure. Models with groove x groove end connections should be rated for 300 (2,068 kPa) psi working pressure.
15. The valve shall have a maximum temperature rating of 250°F (121°C).

**2.03 ACCESSORIES**

1. Triple Duty Valve Accessories
2. Pressure/Temperature port.

**PART 3 EXECUTION**

* 1. **INSTALLATION**
1. Install Triple Duty Valve in accordance with manufacturer’s instructions.
2. Unit shall be a Bell & Gossett® Triple Duty® Valve Model 3DS-\_\_S, 3DS-\_\_B, or 3DS-\_\_G as manufactured by Xylem.

###### END OF SECTION



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