

# **SPECIFICATION**

## **MODEL 23RWR**

### **INTERNAL PILOT OPERATED PRESSURE RELIEF VALVE**

#### **APPLICATION**

The internal pilot operated relief valve shall automatically open to prevent inlet pressure from exceeding a maximum setting.

#### **DESIGN**

The relief valve shall be globe (inline) body with flanged or female NPT end connections, be fully mounted, internal pilot operated, with free floating piston (operated without springs, diaphragm or levers). It shall contain a single full-ported seat, with seat bore equal to size of valve. The minimum travel of the piston shall be equal to 25% of the diameter of the seat. The piston shall be cushioned and so designed as to insure positive closure. The main valve shall be packed with leather (or other soft material) to insure tight closure and prevent metal-to-metal friction and seating. The valve shall be furnished with pet-cocks for attachment to valve body for receiving gauges for testing purposes. The design shall be such that repairs and dismantling internally of main valve may be made without its removal from the line.

#### **PHYSICAL & CHEMICAL PROPERTIES**

Valve body shall be constructed of gray iron casting that conforms to ASTM Specification A 126 Class B. Internal bronze components shall conform to ASTM Specification B-584. Seat Ring and other internal Stainless Steel components shall conform to ASTM Specification A-743 Grade CF-8 or CF-8M.

The flanged and threaded assemblies shall conform to ANSI standards for wall thickness of body and caps, and flange thickness and drilling, subject to other specified standards.

#### **PAINT**

Ferrous surfaces of the valve shall be coated with NSF Certified Epoxy (Tnemec Series FC20) in accordance with ANSI/NSF Std. 61, and conforming to AWWA D102 Inside System No. 1.

#### **TESTING**

A trio of tests shall be performed on the completely assembled valve prior to shipment. These shall include a hydrostatic test of up to two (2) times the working pressure (maximum 500 psi testing pressure), a tight seating test, and a performance test for simulated field conditions. The tests may be witnessed by the customer/engineer or representative.

The valve shall be equal in all respects to the Model 23RWR as manufactured by Ross Valve Mfg. Co., Inc, 6 Oakwood Ave, Troy, NY 12180.

Note: The Ross Valve Mfg. Co., Inc. reserves the right to modify valve construction which will result in equal or superior performance to existing designs. These modifications may be made at any time and at the sole discretion of the manufacturer.