

SPECIFICATION

MODEL MOV

ENERGY DISSIPATION (THROTTLING) VALVE

APPLICATION

The energy dissipation valve shall control pressure or flow in applications with extremely high pressure drops or velocities by regulating the flow stream through a large number of strategically placed engineered orifices. Actuation of the valve may be through an electric motor actuator (with a control signal), a hydraulic cylinder with appropriate hydraulic control devices, or a manual gear.

DESIGN

The main valve shall be comprised of three main sections, namely the valve body, the fixed plate, and the linear plate. The valve body shall be wafer style, capable of bi-directional flow, and shall be suitable for vertical or horizontal installation. The fixed and linear plates shall be surface ground on the mating surfaces to minimize leakage, and shall incorporate a dielectric link between the discs and the valve body to prevent corrosion. An adjustable tensioning device shall be incorporated into the design to control the corresponding leakage. O-ring packings shall be provided throughout the valve to insure tight seals and true alignment. The design shall be such that replacement of the standard seals in the main valve may be made without its removal from the line.

PHYSICAL & CHEMICAL PROPERTIES

Valve body shall be constructed of carbon steel or ductile iron. Linear Plate and Fixed Plate shall be hardened stainless steel grade 410. Other stainless steel components shall conform to ASTM Specification A-743 Grade CF-8 or CF-8M. Bronze components shall conform to ASTM Specification B-584.

Specifications for the orifice pattern (hole size, hole spacing, etc) are determined on a case by case basis, to optimize flow and pressure characteristics based on the anticipated operating conditions.

The flanged assemblies shall conform to ANSI standards for wall thickness of body and caps, and flange thickness and drilling. Note: Because the Model MOV is a wafer style design, it does not have conventional flanges. However, the bolting holes and pattern conform to applicable 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 performance test shall be performed on the completely assembled valve prior to shipment. The test may be witnessed by the customer/engineer or representative.

The valve shall be equal in all respects to the Model MOV 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.