Installation, Operating & Maintenance Instructions

FVF Series Foot Valves

Introduction:

The Colton FVF series valves are center guided, providing reliable, low maintenance service.

Warning:

Piping systems can be dangerous - safety precautions must be observed. Before removing your foot valve from service, make sure that it has been isolated, the pressure released and, where necessary, the fluid between the isolation valves has been drained to an acceptable receptacle.

Installation:

Ensure that all machined surfaces are free of defects and the inside of the foot valve is free of foreign objects. Foreign matter such as pipe scale, metal chips, welding slag, etc., can obstruct disc movement or damage the disc or the seating surface.

The Colton FVF series foot valves must be installed in vertical (upward flow) piping.

Note: all flat faced cast iron flanged check valves are to be sealed with a full face flange gasket. Utilization of a ring gasket on flat faced cast iron flanges can result in cracked flanges that will not be covered by warranty.

When pressurizing the system, increase the pressure gradually and check for leakage at all joints.

Maintenance:

Design features minimize wear and maintenance requirements. However, extended use with fluids having suspended solids can cause binding at the disc guide, interference with valve action and cause wire drawing of the soft seating surface. Also, use of a foot valve at a fraction of its capacity can cause disc flutter and excessive wear.

To disassemble, remove the screen and seat and the disc can then be removed. Examine the valve internally for cleanliness, remove any scale build-up on the disc stem and stem guides. Elliptical wear on the stem or the guides will necessitate replacement. Ensure that all flow passages in the body are free and clear.

Adequate metal has been provided on the seat to permit resurfacing when necessary. We recommend that no more than a total of .03" be removed.