Pinch Valve Technical Information

Series 4700 Sleeve Installation/Replacement

Figure 1

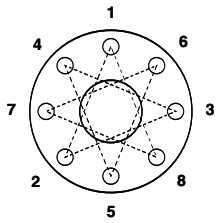


Figure 2

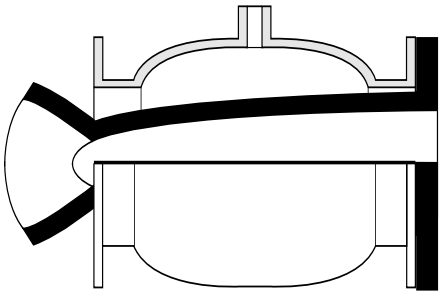
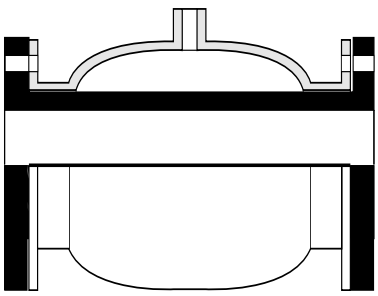


Figure 3



The Series 4700 Pinch Valve is a one-piece, spun aluminum body design; as such, sleeve installation and removal are different from the procedures given in the Type A IOM Manual.

First, the old sleeve to be replaced must be cut in order to be removed. Cut the sleeve using a very sharp blade directly behind the flange, cutting in a parallel direction to the flange face. Once the flange of the sleeve has been removed, the flange at the other end of the sleeve can be used to slide the sleeve out from the valve body.

Installation

One flange of the replacement sleeve must be drawn outward to narrow the sleeve enough to fit through the inside diameter of the Series 4700 Valve body. This is accomplished by tying a thick, flat-faced rope or cord through the bolt holes of the sleeve flange. The rope must lace through every bolt hole in a star pattern, passing through one hole and then to the opposite hole, as shown in figure 1. **DO NOT use thin rope, cord, or wire, as these will cut and damage the flange.**

After the rope has been laced through all the holes, pull the ends of the rope tightly enough to squeeze the sleeve to a near-closed position. This should allow the flange to fit within the inside diameter of the valve and pass through the opposite opening (See figure 2).

Once the sleeve is completely through the opening of the valve, cut the cord or flat-faced rope and align the sleeve flange holes with the body flange holes (See figure 3).

It is recommended that the Series 4700 be installed with metal back-up flanges.