

# **aiRFlex®**

## TECHNICAL SPECIFICATION

### General description:

Designed to handle abrasive slurries and powders as well as corrosive liquids, this high performance valve is of a pinch valve design, but in **standard ASME B-16** face-to-face dimensions; equipped with a reinforced elastomer **tube with folds that flex not stretch** when closing, providing improved wear resistance and cycle life over conventional pinch valve designs; comes with an optional **tube wear monitoring sensor wire** which alerts maintenance personnel when tube needs to be replaced due to wear; elastomer tube flange is designed without bolt holes, allowing **in-line tube change**; excellent on suction side of pumps and in vacuum applications.

**Valve Design:** ASME/ANSI B-16 face-to-face dimension  
Sealed valve body, split design  
Cast Iron, or aluminum construction  
Exterior/interior corrosion resistant coating  
ANSI #150 flanges  
S/S fasteners

**Valve sizes:** 1" through 14" full port

**Valve Function:** On/off valve or throttling/control valve

**Elastomer Tube:**

- One piece, seamless flange to flange;
- Constructed with reinforcing cords
- Built-in folds cause the tube to flex, not stretch, when closing;
- Tube flange without bolt holes, allowing in-line change
- Full port; allowing unobstructed bi-directional flow;

**Actuation:** Compressed air or liquids

### Optional

**Accessories:**

- SMART Valve™ Wear Monitoring Sensor wire in the elastomer tube, alerting maintenance that tube needs to be replaced;
- Solenoid Valve with filter/regulator (regular and explosion proof);
- Fail safe supply air shut-off system with filter/regulator;
- Proportional system regulating air pressure between 0-80 psi, based on 1-10 VDC or 4-20mA analog control signal
- Pressure switches, quick opening systems

**Max.Line Pressure:** 60 psi ( $\geq$  30 psi plant air over line pressure)

**Elastomer Qualities:** NR, N, IIR, NBR, FPM, EPDM, CSM; food grade and white pigmented elastomers are available in selected qualities