

**The New Global Standard for Abrasive, Scaling, and Corrosive Slurries, Sludge, Liquids and Powders**

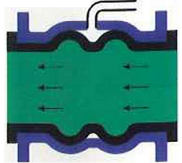


**1" to 60"/25mm-1500mm ID, Full Port Industry Standard ASME/ANSI B-16.10, DIN and ISO Face-to-Face INTERCHANGEABLE with most Ball, Plug, Gate, Globe Valves**

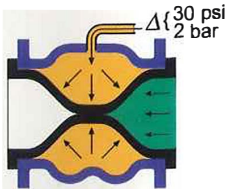
**Operating Benefits**

- No moving parts; only one wear-resistant elastomer component
- Self-cleaning; will not jam or seize
- Seals on solids; gentle closing
- Superior price performance, as no actuator or costly maintenance required
- Up to 60 psi/4 bar shut-off
- Non-stretch folds significantly extend tube life over conventional design
- Full-port opening
- In-line tube change
- Actuation by air, hydraulic

min. 50 psi/2.5 bar



The patented tube folds minimize stretching when air is introduced between the valve body and the tube to close the valve. This prevents the most frequent cause of failure of conventional air-actuated pinch valves.



**Elastomers:** Natural rubber, pure gum rubber, Butyl, Buna-N, EPDM, Hypalon®, Neoprene, Viton®, HNBR, food grades

**Valve Body:**

- Cast iron    ■ Aluminum
- Stainless steel and titanium available on request

**Actuation & Control:**

- On/Off solenoid valve/filter/regulator
- Modulating 4-20 mA proportional pressure controller
- Manual air switch



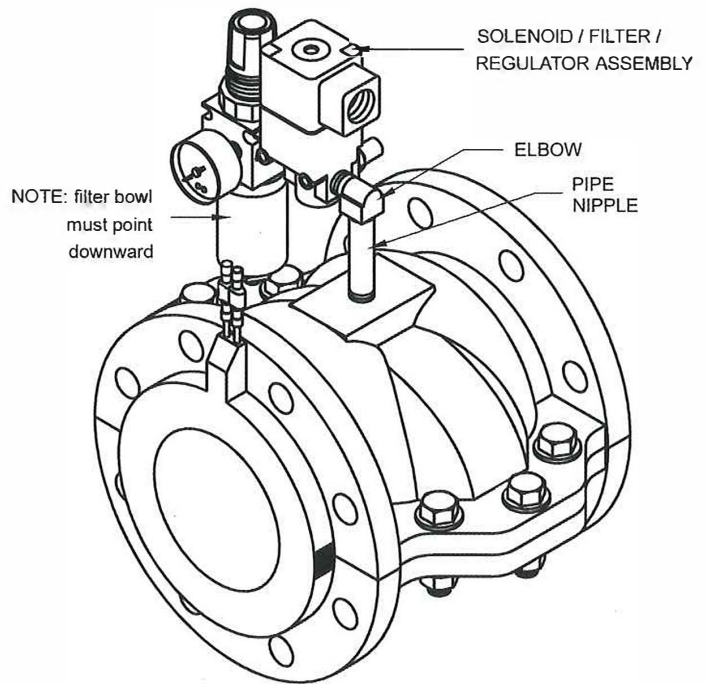
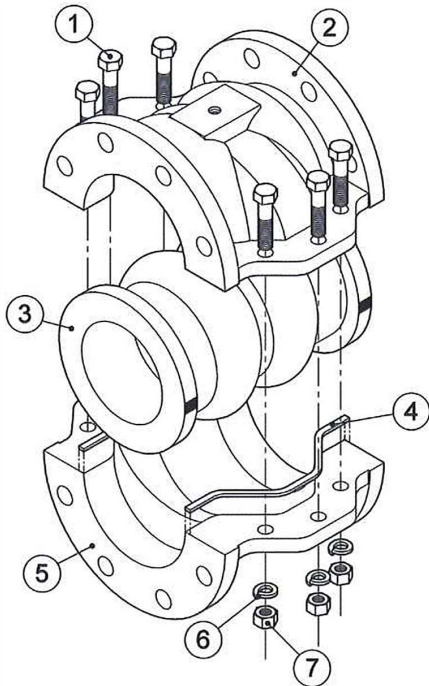
**Elastomer tube folds flex, not stretch, during valve closure**

**WARNING:** The oils in a lubricated air supply line may attack the elastomer so they should never be used with aiRFlex® valves.

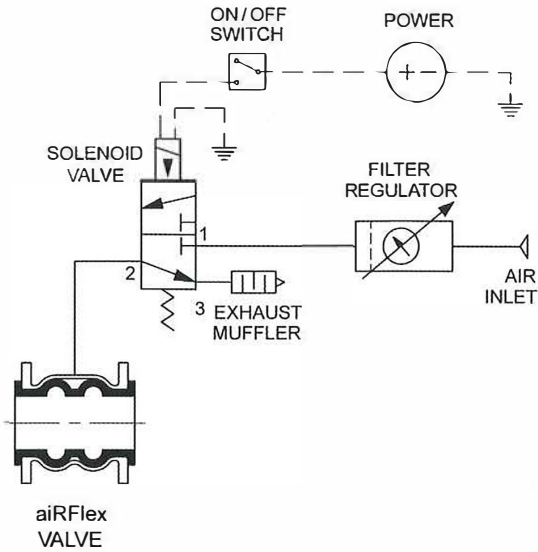
# aiRFlex®

## Materials of Construction

Item	Description	Material
1	Hex Bolt	AISI 304
2	Upper Valve Body	Cast Iron or Aluminum
3	Elastomer Tube	See selection
4	Joint Sealant Tape	PTFE
5	Lower Valve Body	Cast Iron or Aluminum
6	Lock Washer	AISI 304
7	Hex Nut	AISI 304

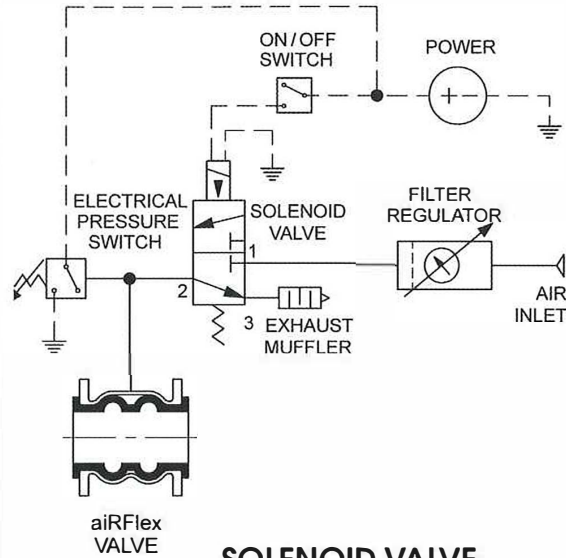


# aiRFlex®



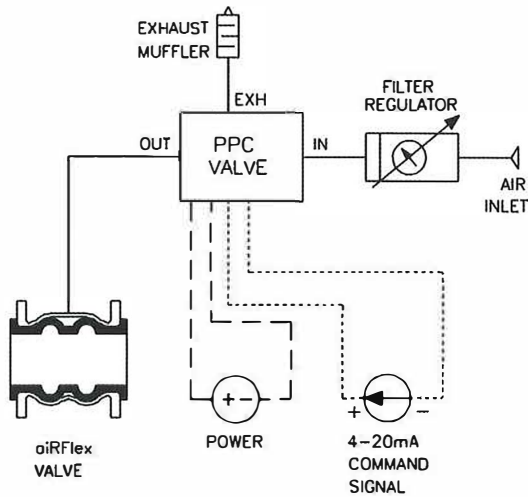
## SOLENOID VALVE SCHEMATIC

(shown energize solenoid-to-close aiRFlex Valve)  
 (Swap connections at ports 1 and 3 on the solenoid for an energize solenoid-to-open aiRFlex Valve)



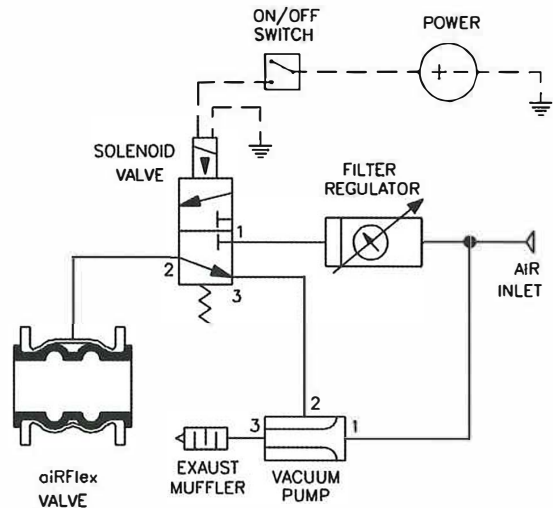
## SOLENOID VALVE AND PRESSURE SWITCH SCHEMATIC

Pressure Switch indicates full shut off.  
 (shown energize solenoid-to-close aiRFlex Valve)  
 (Swap connections at ports 1 and 3 on the solenoid for an energize solenoid-to-open aiRFlex Valve)



## CONTROL VALVE SCHEMATIC

For throttling/modulating aiRFlex Valve applications using a proportional 4-20mA input signal



## SOLENOID VALVE AND QUICK-OPENING SYSTEM

Quick-Opening System rapidly opens aiRFlex Valve.  
 (shown energize solenoid-to-close aiRFlex Valve)  
 Swap connections at ports 1 and 3 on the solenoid for an energize solenoid-to-open aiRFlex Valve)



# World Class Performance

## ACCESSORIES:

- Solenoid valve and filter/regulator
- 4-20 mA proportional modulating control
- Fail-close operation



## Competitive Advantages:

- ASME B16.1 face-to-face
- Non-stretch elastomer tube
- Change tube in line
- s/s fasteners
- Interior/exterior powder coat
- Flange bolt holes unthreaded



- Optional SMART Valve™ Wear Sensor System
- Fail-safe supply-air shut-off
- Quick-opening system
- Pressure switches (open/close signal)



## APPLICATIONS

- **Mining:** metal and mineral concentrates, tailings, lime and chemical addition, water, acids
- **Industrial Minerals:** titanium dioxide, carbonates, iron oxide, pigments, catalyst, kaolin, talc, potash, carbon, ceramics, glass, concrete, fiberglass, magnesium, silica
- **Chemicals:** most abrasive and corrosive liquids or slurries
- **Water and Wastewater:** scaling-prone liquids and chemicals, primary and secondary sludge, grit, screening, flocculation
- **Pneumatic Conveying:** grains, cement, silica sand, pellets, fiber, ash, dust
- **Food and Beverage:** sugar, cereals, fruit and vegetable processing, juices, syrup, mash, waste handling
- **Power Generation:** fly ash, scrubber slurries, cooling and reactor water, neutralization
- **Steel:** quench water, pickling, chemical addition, process water, foundry sand, lime
- **Pulp and Paper:** pulp, liquors, lime mud, coatings, rejects, recycle, dregs, corn starch, sand traps, junk traps

Table dimensions are for ASME/ANSI - Height given is without accessories

ID	F-F		Width		Height <sup>(1)</sup>		Cast Iron		Aluminum		
	in.	mm.	in.	mm.	in.	mm.	lbs.	kg.	lbs.	kg.	
1	25	5	127	5	127	4.2	107	6	2.7	3.5	1.6
1.5	40	6.5	165	5.9	150	5	127	11	5	5	2.3
2	50	7	178	8.1	206	6.5	165	17	7.7	7	3.2
2.5	65	7.5	190	7.6	194	7	178	22	10	11	5
3	80	8	203	10.1	257	7.9	201	27	12.2	14	6.3
4	100	9	229	11.6	295	9	228	37	16.8	17	7.7
5	125	10	254	12.3	312	10	254	52	23.6	24	11
6	150	10.5	267	15.2	386	11.2	284	66	29.9	43	19.5
8	200	18	457	18.3	465	13.4	340	152	68.9	77	34.9
10	250	21	533	24.3	617	16	406	-	-	155	70.3
12	300	24	610	28.2	716	19	483	-	-	205	93
14	350	27	686	27.9	709	26.8	681	-	-	284	128.8

Larger sizes quoted upon request.

## Australian Operations

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