

STANDARD ANSI #150 PINCH VALVE SPECIFICATION 2009

Revised 1/15/09

Standard Pinch Valve Specification (Summary)– ALL PINCH VALVE TYPES: ASME/ANSI B16.1 face-to-face dimensions all sizes & designs, elastomer tube with non-stretch folds and Smart Valve wear sensor wire, centerline closure, elastomer flanges without bolt holes for replacement of elastomer without removing valve from pipeline. Mechanical pinch bar design provided with permanent calibration lock nut system on pull bar extensions and removable lower pinch bar, 316 stainless steel pull bars, actuator shaft, threaded stem, flange rings, fasteners. Lubricated, sealed threaded portion of stem is exterior to valve body isolating screw mechanism from process fluids in separate housing

Valve Product & Manufacturer: Valves shall be type **RF VALVE®**
by **RF Technologies, Inc., Columbia, Maryland, No Equal**

[1] Specification Detail – Manual, Electric, Pneumatic, Hydraulic Cylinder Operated

[a] Cast iron or welded steel, fully enclosed, split body design, powder coated interior and exterior, ASME B-16.1 face-to-face dimensions, ANSI #150 flanges, bi-directional bubble tight closure on centerline at maximum working pressure, molded elastomer sleeve with polyester or stronger ply cords, non-stretch folds, and wear sensor wire for monitoring sleeve condition.

[b] Sleeve flanges shall also contain an internal stainless steel ring, and have no boltholes, to allow sleeve replacement without removing the valve from the pipeline.

[c] The top pinch bar shall be raised and lowered by a center actuator shaft with polished, non-threaded surface. Lower pinch bar shall be raised and lowered with two pull bars anchored to the actuator base plate extending through the valve body. Electro-mechanical and manual valves shall have an ACME-threaded stem with threaded portion of stem exterior to the valve body and isolated from the process fluids in a separate housing.

[d] Pinch bars, pull bars, actuator shaft, threaded stem, flange rings, fasteners shall be 304 s.s.

[e] Permanent factory calibration of the pinching mechanism shall be provided with lock nut system on pull bar extensions, including tamper indication seal.

[f] Actuator shall be [**electro-mechanical, pneumatic, manual**] for [**open/close, throttling**] service.

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[2] Standard Specification – Air Operated

[a] Valves shall be air operated and shall open and close by the action of air (or water) pressure in the void space between the elastomer sleeve and the valve housing

[b] Valve body shall be cast iron or aluminum, split body design, powder coated interior and exterior, ASME B-16.1 face-to-face dimensions, ANSI #150 flanges with non-threaded bolt holes.

[c] Valve shall provide bubble tight closure at working pressure of 50 psi., with plant air supply of 80 psi., molded Buna N sleeve with polyester or stronger ply cords, non-stretch folds, and wear sensor wire for monitoring sleeve condition

[d] Sleeve flanges shall also contain an internal stainless steel ring, and have no bolt holes to allow sleeve replacement without removing the valve from the pipeline.

Valve Product & Manufacturer: Valves shall be type **aiRFlex®**
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