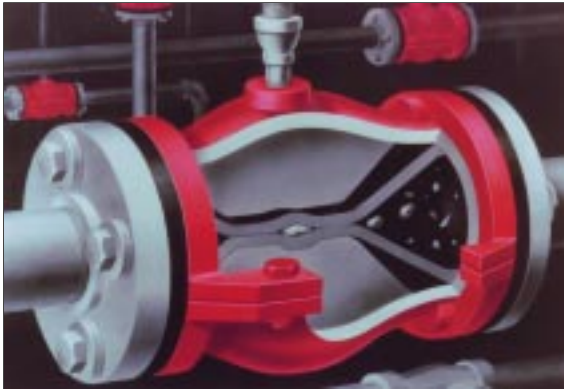


# Type A

- ▶ Non-critical flow control valve
- ▶ Body acts as a built-in actuator
- ▶ Sealing area is 60 percent of valve length
- ▶ No packing to maintain or replace
- ▶ Cost effective, maintenance free



The Type A Control Valve is designed for economical open-loop control in non-critical, low-pressure-drop applications. Red Valve Type A Control Pinch Valves are used extensively for slurry control. Over 2,000,000 Type A Pinch Valves have been sold.

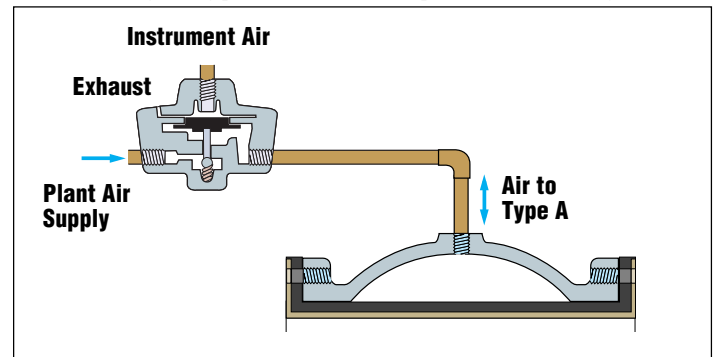
Actuation of the valve, the pinching action, is accomplished by air or hydraulic pressure placed on the sleeve. The valve body acts as a built-in actuator, eliminating the need for pneumatic, hydraulic or electric actuators. Varying the pressure within the annular space between the body and the sleeve can open, throttle or close the valve. Approximately 35 psi over line pressure is required for closure.

Throttling control is accomplished by a changing air signal to a proportional relay which modulates air pressure to the Type A Control Pinch Valve. Pressure drop should generally not exceed 30 percent across the Type A Valve.

## Materials of Construction

- ▶ Cast iron or aluminum bodies
- ▶ Sleeves available in Pure Gum Rubber, Neoprene, Hypalon®, Chlorobutyl, Buna-N, EPDM and Viton®
- ▶ Drilled and tapped to mate with ANSI B16.5 Class 150 or 300 Flanges

## Controlling a Type A with a Proportional Relay



Red Valve recommends an adjustable relay (as opposed to a fixed, proportional relay).

## Dimensions Type A Pinch Valve, Standard Sleeve Trim

VALVE SIZE	LENGTH L	HEIGHT H	WORKING PRESSURE psi	WEIGHT CAST IRON lbs	VOLUME ft <sup>3</sup>	AIR INLET NPT
1/2"	3"	3-1/2"	150	5	.002	1/4"
3/4"	4"	3-3/4"	150	7	.002	1/4"
1"	5"	4-1/4"	150	9	.002	1/4"
1-1/2"	7"	5"	150	17	.007	1/4"
2"	9"	6-1/2"	150	32	.016	1/4"
2-1/2"	10"	7"	150	40	.028	1/4"
3"	12"	8"	150	55	.049	1/4"
4"	12-1/2"	10-5/8"	150	85	.091	1/4"
5"	16-1/2"	11-1/2"	150	119	.187	1/4"
6"	20"	13"	150	166	.327	1/4"
8"	22"	16-1/4"	125	235	.640	1/4"
10"	24"	21"	100	425	1.09	1/4"
12"	26"	24"	100	640	1.70	1/4"
14"	30"	22"	75	780	2.39	1/4"
16"	34"	29-1/2"	75	910	3.59	1/4"
18"	39"	30-1/2"	50	1,275	5.27	3/4"
*20" x 24"	43"	31"	50	1,704	7.25	1"
*24" x 28"	51"	38-1/2"	50	2,100	12.5	1"

\*Valve uses extended flange.  
For larger sizes up to 72", consult factory.