

Introduction

Without actuators, cost-effective automated control valve, applicable for various kinds of demanding applications.

Size range: 300~2000mm, 12" ~80" in

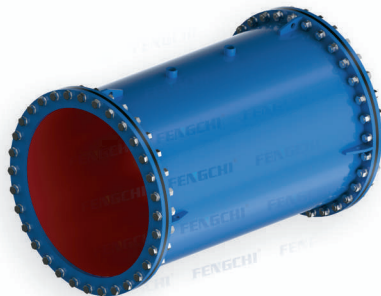
The Connection Method : Flange

Actuating mode: air or liquid

Operating differential pressure: ≥ 2 bar

Applicable Media: Powder, Slurry, Particles

Working Temperature: $-40 \sim 70^{\circ}\text{C}$



Principle

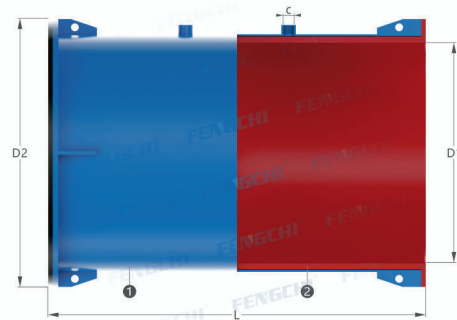
Air operated pinch valve provides a unique and cost-effective solution for fluid control problems, the secret is the rubber sleeve- the valve's only part in contact with fluid medium. Actuation of the valve is accomplished by air or liquid placed directly on the elastomer sleeve. The valve body acts as a built-in actuator, eliminating costly pneumatic, hydraulic, or electric actuators. We can shut on/off or adjust the valve by controlling the air pressure in the annular space between valve body and valve sleeve, when pressure difference is up to 2bar, the pinch valve will be shut off tightly. The sleeve's flexibility allows the valve to shut off drop-tight on solids, and avoids damage on the valve. Sealing area is equal to 95% length of the valve. There are no seats or packing to replace, no cavities or dead spots to collect debris and bind valve operation either. The abrasive resistance of pinch valve is incomparable, it is like another part of the pipeline when the valve is fully open. Pinch valve is usually applicable for hard-to-reach locations or severe demanding applications since there are no external links, levers, pistons or rotating parts to cause downtime.

Features

- Cost-effective Large-Size Pinch Valves
- Valve body acts as a built-in actuator
- The full bore design eliminates pressure loss and reduces pumping costs.
- Simple two-piece design: Body and Sleeve
- No sealing elements to replace or maintain at anytime
- A variety of choice for sleeve materials- to meet the needs for different media



Dimension drawing



No.	Name	Optional Material
1	Body material	Cast steel, 304/316/316L Stainless steel
2	Valve sleeve	NR, EPDM, CR, NBR, IIR, FPM, CSM

Dimension table

DN	D1	D2	L	c	关闭压力
300	300	445	600	G3/8"	< 99kpa
400	400	565	800	G1"	< 99kpa
500	500	670	900	G1"	< 99kpa
600	600	780	1050	G1"	< 99kpa
800	800	1015	1400	G1"	< 99kpa
1000	1000	1230	1700	G1"	< 99kpa
1200	1200	1455	2050	G2"	< 99kpa
1500	1500	1800	2550	G2"	< 99kpa
1800	1800	2115	3150	G2"	< 99kpa
2000	2000	2325	3500	G2"	< 99kpa