

Introduction

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

Size range: 10~50mm, 1/2" ~2" in
The Connection Method : Internal Thread
Actuating mode: air or liquid
Operating differential pressure: ≥2bar
Applicable Media: Powder, Slurry, Particles
Working Temperature: -40~70°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.

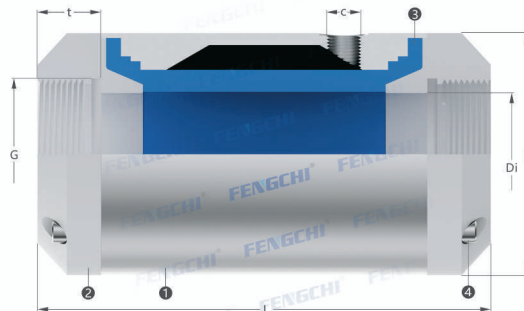
Features

- Simple Automatic-Control Design for Valve
- Valve body acts as a built-in actuator
- No gaps or dead spots to bind valve operation
- Threaded connection which is convenient for installing and removal
- No sealing elements to replace or maintain at anytime
- A variety of choice for sleeve materials- to meet the needs for different media



Mini Air operated pinch valve

Dimension drawing



No.	Name	Optional Material
1	Body material	Aluminum alloy, 304/316/316L Stainless steel
2	Valve sleeve	NR, EPDM, CR, NBR, IIR, FPM, CSM
3	Joint	Natural color POM, Black POM, 304/316/316L Stainless steel
4	Bolt	304/316/316L Stainless steel

Dimension table

DN	Di	G	t	D	L	c	Vol.11	kg
10	10	G3/8"	12	38	80	M5	0.03	0.14
15	15	G1/2"	14	44	95	G1/8"	0.04	0.22
20	20	G3/4"	17	55	110	G1/8"	0.05	0.37
25	25	G1"	20	60	125	G1/8"	0.07	0.46
32	32	G1-1/4"	20	73	140	G1/8"	0.10	0.71
40	40	G1-1/2"	20	83	150	G1/8"	0.13	0.89
50	50	G2"	25	99	185	G1/4"	0.28	1.49