

Introduction

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

Size range: 20~300mm, 3/4" ~12" in

The Connection Method : Flange

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.

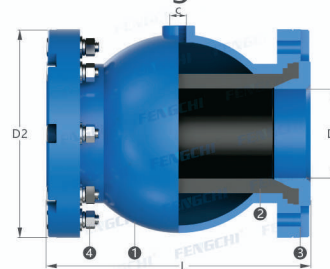
Features

- Shut off drop-tight on solids
- Valve body acts as a built-in actuator
- No gaps or dead spots to bind valve operation
- Simple design, not affected by harsh external environments
- No sealing elements to replace or maintain at anytime
- A variety of choice for sleeve materials- to meet the needs for different media



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	Flange	Cast iron, Cast steel, Aluminum alloy, 304/316/316L Stainless steel
4	Bolt	Cast steel, 304/316/316L Stainless steel

Dimension table

Model	D1 (mm)	D2	C	L	重量 (kg)
FC20-QG	DN20	105	G1/4"	130	2
FC25-QG	DN25	115	G1/4"	130	2
FC32-QG	DN32	140	G1/4"	160	5
FC40-QG	DN40	150	G1/4"	160	5
FC50-QG	DN50	165	G1/4"	180	6
FC65-QG	DN65	185	G1/4"	180	6
FC80-QG	DN80	200	G3/8"	228	9
FC100-QG	DN100	220	G3/8"	278	14
FC125-QG	DN125	250	G3/8"	345	20
FC150-QG	DN150	285	G3/8"	414	30
FC200-QG	DN200	340	G3/8"	550	50
FC250-QG	DN250	395	G3/8"	620	85
FC300-QG	DN300	445	G3/8"	680	110