PINCH VALVES

APPLICATIONS

WATER TREATMENT / SEWAGE TREATMENT PLANTS
Waste water, lime slurry, sludge, scaling-prone liquids, chemicals, screening, flocculation, etc

PULP & PAPER
Pulp, paste, talc, soda, liquors, lime mud, coatings, sand traps, junk traps, etc

MINING
Metal and mineral concentrates, tailings, lime and chemical addition, water, acids, etc

METALLURGY
Air, dry sand, pulverized carbon, smokes, cements, concrete, etc

ENVIRONMENTAL ENGINEERING
For effluent, dust, soot, etc

CHEMICALS
Abrasive & corrosive liquids, slurries, paints, varnishes, fertilizers, etc

INDUSTRIAL MINERALS
Titanium dioxide, carbonates, iron oxide, pigments, catalyst, kaolin, potash, carbon, ceramics, glass, concrete, fiberglass, magnesium, silica, etc

FOOD & BEVERAGE INDUSTRIES
Sugar, cereals, chocolates, hazelnuts, fruit & vegetable processing, juices, syrup, mash, waste handling, etc

PNEUMATIC CONVEYING
Grains, cement, silica sand, plaster, pellets, fiber, ash, dust, flour, etc

POWER GENERATION
Fly ash, scrubber, slurries, cooling and reactor water, neutralization, etc

POWER INDUSTRY
Coal, caustic soda, nitric acid, etc

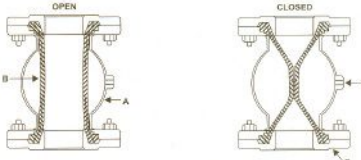
STEEL INDUSTRY
Quench water, pickling, chemical addition, process water, foundry sand, lime, etc

FEATURES

- *Direct flow with no loss of head.*
- *Bubble free tightness even with the wettest liquids.*
- *Viscous or paste-like liquids pass with no choking or blocking.*
- *Abrasive material cause no damages.*
- *No moving parts; hence no maintenance*
- *Self-cleaning; will not jam or seize*

PRINCIPLE OF OPERATION

The automatic Pinch Valve comprises valve body a cylindrical sleeve made from natural rubber and two flanges. Valve is closed by applying pressure between the body and the sleeve via air connection port. Usually pressure is applied by air or water. Sleeve deforms when the pressure is applied and closes the valve. Fibre reinforcement in the construction of the sleeve ensures total bubble tight shut off.

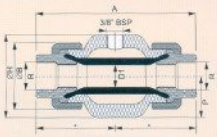


A - Valve Body
B - Sleeve
C - Air Connection
D - Two Flanges for process connection

MAIN TECHNICAL CHARACTERISTICS

- Body material available in Cast iron and PVC.
- Sleeves made out of anti-abrasion natural rubber
- Maximum operating temperature 80° C.

FIG-1 (PVC)

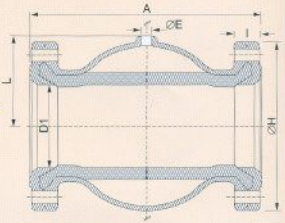


CONDITION	Upto DN200	DN250
- Service pressure maximum	4 bar	3 bar
- Control fluid pressure maximum	6 bar	4.5 bar
- Differential pressure minimum	2 bar	1.5 bar

PVC Valves (Fig 1)

Dimension	DN 20	DN 25	DN 32	DN 40
A	144	144	170	200
B	60	74	83	103
D1	17	22	28	34
H	69	79	89	99
P	32.5	37.5	43	48
R	BSP (F)¾"	BSP (F)1"	BSP (F)1¼"	BSP (F)1½"
Weight (kg)	0.5	0.8	1	2

FIG-2 (C.I)



CI Valves (Fig 2)

Dimension	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250
A	180	180	220	276	345	414	550	680
D1	60	60	75	95	120	145	182	229
I	27	28	30	36	48	52	65	82
ØE	3/8"BSP							
ØH	165	185	200	220	250	285	340	405
L	73	76.5	90	110	134	160	223	254
Connecting flanges Std	PN10 DN50	PN10 DN65	PN10 DN80	PN10 DN100	PN10 DN125	PN10 DN150	PN10 DN200	PN10/ DN250
Connecting flanges Opt	2" ANSI 300	2½" ANSI 150	3" ANSI 150	4" ANSI 150	5" ANSI 150	6" ANSI 150	8" ANSI 150	10" ANSI 150
Weight (Kg)	15	15	17	28	30	40	60	90

Note : MOCs for Sleeves like Viton, Neoprene & Food Grade available on request

ISO9000 Certified

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