

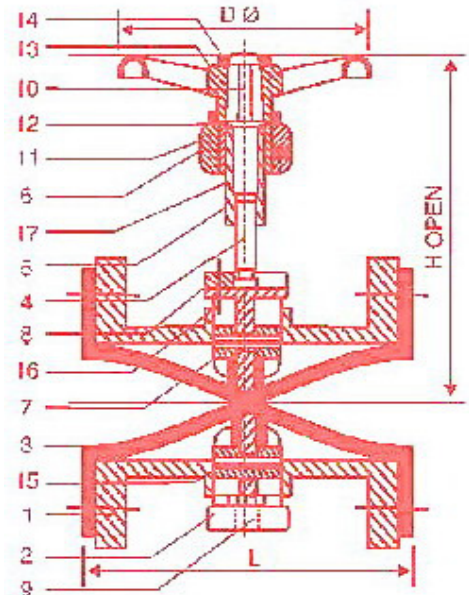


## Pinch Valves

- Seatless & glandless valves
- Field replaceable elastomer sleeve / muff
- Rubber sleeve / muff has four reinforced lugs
- Flanged ends & drilled to DN, ANSI, BS-10, IS, etc  
This valve incorporates all design modification based on our experience & is of sturdy construction & good quality finishing to handle abrasive and corrosive media.



Sr. No.	Part	Material
1	Body	C.I.- Fg200 (Cast Iron)
2	Pinching Bars	C.I - Fg200 (Cast Iron)
3	Elastomer Sleeve	Reinforced Natural, Neoprene, EPDM, SBR, Butyl, Hypolon, etc
4 & 5	Spindle	SS 410
6	Bridge	Cast Steel (C.S)
7	Lug's Clamp	Mild Steel (M.S)
8	Spindle Clamp	Gun Metal (G.M)
9	Tie Bars	AISI 410
10	Key	Mild Steel (M.S)
11	Yoke Bush	Gun Metal (G.M)
12	Travel Limit Nut	Mild Steel (M.S)
13	Hand Wheel	C.I - Fg200 (Cast Iron)
14	Hand Wheel Nut	Mild Steel (M.S)
15	Lug Clamp Screw	Mild Steel (M.S)
16	Set Screw	Mild Steel (M.S)



Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L	108	124	133	152	165	197	220	260	311	362	412	524	640	760
S.L	98	114	123	139	150	179	203	240	291	341	388	504	612	730
O wh	86	86	100	115	115	175	175	190	225	270	270	375	480	480
H	169	172	201	212	225	252	285	333	370	466	521	612	738	860

Weight of Pinch valves in Kg. (approx)														
Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Valve.	0	0	0	0	12	15	18	26	34	60	66	124	260	325
Sleeve.	0	0	0	0	0.6	1.1	1.35	2.1	2.9	4.0	5.5	11.7	14.7	21.5



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## Operating Manual

**Preliminary Precaution:** On receipt of the valve please check the position of the valve, as it is advisable to keep the valve in fully opened condition. Also check the position of the travel limit nut, if found loose then tighten the set screw of the nut.

**Installation:** The valve can be installed without any gasket unless it is required for some specific purpose. Tighten the nut of the flanges evenly & equally, but avoid too much tightening. After installation check the free movement of the upper & lower pinching bar by opening & closing the valve. The valve is then ready for the service it is installed for.

**Maintenance:** If the valve is found leaking through the seat after sometime even though in fully closed condition, then set the travel limit nut by just taking it 1 or 2 threads above & then tighten. This will allow more room for traveling of rubber sleeve & ensure the valve to zero leakage. This problem sometimes occurs when the sleeve is slightly worn out, when used under abrasive condition. Further, The Rubber sleeve of the valve upto 2" (50mm) have a single lug on either side and it goes into the hollow passage of the pinching bar where it is fixed with the lug clamping screws. In the higher sizes above 2", the sleeves have two lugs on either sides and are fitted overlapping the pinching bar.

**Dismantling the valve & replacing rubber sleeve / muff:** When the rubber sleeve is ruptured or totally worn out then it is to be replaced with a new one. In this case first dismantle the valve by following the instructions.

1. Remove the hand wheel.
2. Open the Tie Bar nuts.
3. Disconnect the spindle from the Horseshoe connection and remove it completely with the bridge.
4. REMEMBER not to temper the set screw of the yoke bush, unless if required it should be completely tight.
5. Open & remove the nuts & bolts of the split body of the valve.
6. Remove the screw of the lugs from both the pinching bars.
7. Now fit the new rubber sleeve & reverse the operation to assemble the complete valve.

**Remember:** It is advisable to keep a spare rubber sleeve / muff for maintenance purpose, considering the self life of the Rubber as six months when packed & stored in dark. The Pinch valves should be stored in fully open condition only. We also offer complete spares of the valves; hence the valves shall never be scrapped. We sincerely request you to place your order 1-2 weeks in advance.



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## *Brief Write-up*

Pinch valve is a Seatless & Glandless valve.

Pinch valve is a modified version of laboratory pinchcock. A rubber sleeve is protected under a cast iron, aluminum, etc casting. The service material / fluid passing through does not come in contact with either body covering or any other metal parts of the valve except the rubber sleeve / muff and hence the body and other metal parts are almost permanently not subjected to the corrosive action of the fluid. The flow through the valve is straight and full as that of a pipeline, when the valve is fully open. Further, the collar of the sleeve eliminates use of any gasket. The valve having simple rising spindle type operation makes the valve just simple as other wheel operated valve. The in-between stoppage will allow the desired throttling and Pinch valve thus offers positive control over flowing media.

**APPLICATION:** Pinch valve finds its best application in handling corrosive slurry, abrasive media, liquid with solid suspensions and many others, which are difficult to handle with seat valve. Pinch valves are also best suited for Vacuum service.

**RANGE:** The flange of the pinch valve can be supplied in accordance to BS, DIN, ASA & IS dimensions. The range for the valve is from 15 mm TO 300 mm.

**ACTUATION:** The valve can be supplied with Electrical and Pneumatic actuation.