

Manual Operated Pinch Valves



- SIZE 15MM TO 400MM –
- DRILLED TO ANY STANDARD – DIN, ANSI, BS, IS, OR AS REQUIRED.
- PRESSURE UPTO 25 BAR – IN CLOSED & OPEN POSITION –
- SLEEVE OPTIONS – NEOPRENE, NATURAL, HYPALONE, EPDM, VITON,
- HIGH ABRASSION RESISTANT – SPECIAL INVENTED – HIGHLY ELASTIC, SPECIAL EXTRA HIGH PRESSURE MOULDED (FIVE TIMES BETTER ABRASSION RESISTANT & LONG LIFE THAN ANY RUBBER SLEEVE)

GENERAL FEATURES & HIGHLIGHTS

- SEAT LESS & GLANDLESS
- EASILY REPLACABLE ELASTOMERIC SLEEVE.
- ELASTOMERIC SLEEVE HAVE FOUR REINFORCED PULLING LUGS
- FLANGED ENDS & DRILLED TO DIN, ANSI, BS, IS, OR AS REQUIRED.
- CONSTRUCTION TO HANDLE ABRASIVE CORROSIVE MEDIA.

INFORMATIONS ON PINCH VALVE

Pinch Valve is a Seat less & Glandless valve.

Pinch valve is a modified version of laboratory pinchcock. A rubber sleeve is protected under a metallic casing – i.e. CAST IRON, CAST STEEL – WCB, STAINLESS STEEL, ALLUMINIUM.

The fluid passing through do not come in contact with either body covering or any other metal parts of the valve except the sleeve.

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 gasket.

The valve is simple hand wheel operated of rising wheel type. Therefore the operation of the valve is just simple as other wheel operated valve.

Fine threading in the spindle permits us the desired controlling. Thus the valve offers positive & smooth flow with fine/desired control over flowing media.

APPLICATIONS

- Chemicals, Alkaline Mixtures
- Acids, Slurries & intermediates, Liquid Foods, Viscous fluids, Sludge's, Granules
- Dry Suspension
- Powder Collectors
- Gases
- Pulps
- Vacuum
- Sewage Plants
- Thermal Power Stations Water Containing Ash.

- Pharmaceuticals – Picklings
- Textiles Industry
- Mining & Cement Industry
- Acid & Chemical Tankers
- Refineries
- Fertilizers

RANGE :

SIZE RANGE FROM 15MM TO 400MM –

ATTN – WE HAVE FULL CAPACITY TO DEVELOP ANY DESIGN PINCH VALVE. AS WE HAVE ALL FACILITIES ASSOCIATED WITH PATTERN & DIE MOULD SHOP, FOUNDRY, RUBBER MOULDING SYSTEM WITH CAPACITY OF BIG SIZE RUBBER MILLING SYSTEM, BOILER, MACHINING & ASSEMBLY UNIT. i.e. FROM DRAWING TO FINAL FINISH PRODUCT AVAILABLE READY STOCK OR AT THE EARLIEST.

TYPES OF VALVES & ACTUATORS :

The valve are available

- MANUAL HAND WHEEL DRIVEN
- PNEUMATIC CYLINDER OPERATED – DOUBLE ACTING
- ELECTRICAL OPERATED WITH MANUAL OVER RIDE
- HYDRAULIC LEVER OPERATED

PART	MATERIAL
Body	C.I. IS 210 Gr.20-25 (Cast Iron)
Pinching Bars	C.I. IS 210 Gr.20-25 (Cast Iron)
Elastomer Sleeve	NATURAL, NEOPRENE, BUTYL, EPDM, HYPALON, VITON, SPECIAL HIGH PRESSURE & HIGH ABRASSION VP-ABRP* SLEEVE
Spindle	AISI 410
Bridge	Cast Steel(C.S)/M.S BAR STO
Lug's Clamp	Mild Steel (M.S)
Spindle Clamp	ALLOY STEEL
Tie Bars	POLISH BAR MILD STEEL
Wheel lock pin	Mild Steel (M.S)
Travel Limit Nut	Mild Steel (M.S)
Hand Wheel	C.I. IS 210 Gr.20-25 (Cast Iron)
Hand Wheel Nut	Mild Steel (M.S)
Lug Clamp Screw	Mild Steel (M.S)
Set Screw	Mild Steel (M.S)

WEIGHT OF PINCH VALVES IN KG. (APPROX)														
Size (MM)	15	20	25	40	50	65	80	100	125	150	200	250	300	350
Valve Weight	4.2	5.1	6.5	10	14.5	18	26	35	55	76	134	196	290	370
Sleeve Weight				0.6	1.1	1.35	2.1	2.9	4.0	5.5	11.7	14.7	21.5	28

OPERATING MANUAL OF PINCH VALVE

A rubber sleeve is protected under a CAST IRON, CAST STEEL – WCB, STAINLESS STEEL, ALLUMINIUM, split body casting. The valve is a simple hand wheel operated of rising wheel type. The operation of the valve is same as other hand wheel operated valve, it closes when moved in clockwise direction and opens when moved in anticlockwise direction. The in-between stoppage will allow the desired throttling. Thus the valve offers positive control over flowing media. The flow through the valve is same as that of a pipeline, when the valve is in fully opened condition. Further, the rubber sleeve eliminates the need of a gasket.

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 up to 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 both sides and are fitted overlapping the pinching bar.

DISMANTLING THE VALVE & REPLACING THE RUBBER SLEEVE :

If the rubber sleeve is ruptured or worn out or needed to be replaced with a new one. Start dismantling the valve by following the instructions.

1. Open the Tie Bar nuts.
2. Remove the spindle from the Horseshoe that is connected with pinching gate, connection and remove it completely with the bridge.
3. Remove the screw of the lugs from both the pinching bars.
4. Open out the nuts & bolts of the split body of the main valve.
5. Now insert & fit the new rubber sleeve & reverse the operation to assemble the complete valve.

ADEQUATE SPARES REQUIRED

Keep adequate spares in stock - & spare sleeve should be permanently in plastic bag, safe from unnecessary atmospheric effect.

Semi Open Body Manual Pinch Valve



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- HIGH ABRASSION RESISTANT – SPECIAL INVENTED – HIGHLY ELASTIC, SPECIAL EXTRA HIGH PRESSURE MOULDED (FIVE TIMES BETTER ABRASSION RESISTANT & LONG LIFE THAN ANY RUBBER SLEEVE)

GENERAL FEATURES & HIGHLIGHTS

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- EASILY REPLACABLE ELASTOMERIC SLEEVE.
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PART	MATERIAL
Body	C.I., C.S., S.G.Iron, Aluminium, Stainless Steel As Per Party Requirement
Pinching Bars	C.I., C.S., S.G.Iron, Aluminium, Stainless Steel As Per Party Requirement
Elastomer Sleeve	NATURAL, NEOPRENE, BUTYL, EPDM, HYPALON, VITON, SPECIAL HIGH PRESSURE & HIGH ABRASSION VP-ABRP* SLEEVE
Spindle	AISI 410
Bridge	Cast Steel(C.S)/M.S BAR STO

Lug's Clamp	Mild Steel (M.S)
Spindle Clamp	ALLOY STEEL
Tie Bars	POLISH BAR MILD STEEL
Wheel lock pin	Mild Steel (M.S)
Travel Limit Nut	Mild Steel (M.S)
Hand Wheel	C.I.,C.S.,S.G.Iron
Hand Wheel Nut	Mild Steel (M.S)
Lug Clamp Screw	Mild Steel (M.S)
Set Screw	Mild Steel (M.S)

WEIGHT OF PINCH VALVES IN KG. (APPROX)

Size (MM)	15	20	25	40	50	65	80	100	125	150	200	250	300	350
Valve Weight	4.2	5.1	6.5	10	14.5	18	26	35	55	76	134	196	290	370
Sleeve Weight				0.6	1.1	1.35	2.1	2.9	4.0	5.5	11.7	14.7	21.5	28

Full Covered Body Pinch Valve



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PART	MATERIAL
Body	C.I., C.S., S.G.Iron, Aluminium, Stainless Steel As Per Party Requirement
Pinching Bars	C.I., C.S., S.G.Iron, Aluminium, Stainless Steel As Per Party Requirement
Elastomer Sleeve	NATURAL, NEOPRENE, BUTYL, EPDM, HYPALON, VITON, SPECIAL HIGH PRESSURE & HIGH ABRASSION VP-ABRP* SLEEVE

Spindle	AISI 410
Bridge	Cast Steel(C.S)/M.S BAR STO
Lug's Clamp	Mild Steel (M.S)
Spindle Clamp	ALLOY STEEL
Tie Bars	POLISH BAR MILD STEEL
Wheel lock pin	Mild Steel (M.S)
Travel Limit Nut	Mild Steel (M.S)
Hand Wheel	C.I.,C.S.,S.G.Iron
Hand Wheel Nut	Mild Steel (M.S)
Lug Clamp Screw	Mild Steel (M.S)
Set Screw	Mild Steel (M.S)

Open Body Fabricated Pinch Valve



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ADVANTEGE:

Open Body Fabricated Hand Wheel Operated Pinch Valve features are simple, lightweight, which allows for easy visual verification of sleeve position.