



Upadhaya Valves Manufacturers
PRIVATE LIMITED
Trusted Brand in Pipeline Products

There are few directions to maintain and operate the valves which are explained below for each valve.

MAINTENANCE INSTRUCTION FOR SLUICE GATE AS PER IS:3042/IS:13349

1. Frame (Serial No.- 2 of Drawing) is firmly fixed on wall by grouting anchor bolt on wall.
2. (i) For maintenance of gate, part (Sl. No.-1) shall be removed from the frame.
(ii) Taper wedge with buttam shall be opened from frame by losing stud and nut.
(iii) After removing buttam gate (Sl. No.-1) will remove from frame.
(iv) If water escapes from seat end, polishing of ring face (Sl. No.-4) is required by emery paper.
(v) Polish may done both frame end, seat and gate end seat (Sl. No.-4)
3. Gate pin shall be dislocated from gate spindle.
4. Spindle will move up by rotating gear driving shaft.
5. Again gate will be place inside frame greasing is required both side of frame and seat. Buttam will be fixed on frame by stud and nuts. Gate will slide between frame and wedge buttam.
6. It should checked when gate placed on frame thicker part of gate will mount top and thinner part of gate will mount buttam.
7. Thicker portion of guide buttam will set at buttam and thinner section of guide buttam will set at upside.
8. Greasing of gear box is required. It is done by opening gear cover grease and oil may be applied on pinion. Then operation will achieve smoother.

MAINTENANCE INSTRUCTION FOR KNIFE EDGE GATE VALVE

1. Body seat 'O' ring made from nitrile rubber may damage. Damage 'O' ring is taken out and new 'o' ring will insert inside the group of ring, gate will kept fully open condition at that time.
2. Damage gland packing shall be replaced by new one if required.

MAINTENANCE MANUAL OF AIR VALVE

1. In case there are damages of Float on large Orifice / Small Orifice causes leakage of water from both orifices.
2. Dismantled both cover including Dust cover during idle Flow on line change the damage float by new one.
3. If damage occurs on Dexine washer (may hand / cracked) water may leak from orifice end. Then Dexine washer should be replaced.
4. Once dismantled the cover portion of air valve, gasket portion should be changed before resetting of cover.

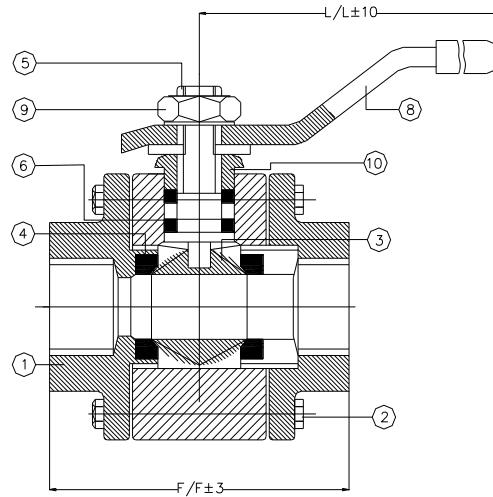


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MAINTENANCE MANUAL OF BALL VALVE



1. During huge operation seat ring may damage. For screwed end valve one end of body (part-1) shall be loosen and opened.
2. Stainless steel ball will take out from body middle part after removing stem (Part-7)
3. Worn seat (part-4) to be replaced by new one then again assembled.



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MAINTENANCE MANUAL OF BUTTERFLY VALVE

FOR WAFER TYPE

1. Free movement of spindle - It indicates the pin riveted on disc with shaft is sheared out.
2. How to rectify - Butterfly valve is taken out from line and riveting job done by insert new pin formed a drill hole on disc along with shaft on another place.
3. Breakages are of disc - valve is taken out from line. Teeth plate of butterfly valve is dismantled from top. Valve pin is taken out from valve disc rotation of shaft is free related with disc. Valve shaft is taken out from body. Disc dismantled from valve assembly and a new disc installs with valve shaft and pegged with valve pin.

FOR FLANGE TYPE

1. Loosen of valve follower/clamping ring – Main function of this ring to compress the rubber with valve disc. Many operation of the valve disc retainer is loosen and it sometime stuck inside body ring. Operation of valve hampered. Valve taken out from line and retainer reset by proper tightening of disc bolt.
2. Damage of disc seat ring - It is made from ethylene propylene dim ethyl (EPDM). If there is damage of EPDM seat ring, disc clamping ring/retainer ring is taken out by loosening bolt and a new rubber component reset on disc surface with clamping ring.
3. Leakage from bottom seal ring or top seal ring- For replacing the top seal, gear box dismantled from top of valve, to remove gland plate. Damaged top seal made from EPDM/Nitrile rubber is taken out by replacing new one. To replace bottom seal thrust plate is taken out and damage seal ring may change by inserting new one.

MAINTENANCE MANUAL OF C.I. & FORGE GATE VALVE

1. It there are leakages from seat for (valve sizes 80mm to 1200mm) it will be rectified.
2. Gland to be open, top cover part to be opened.
3. Spindle to be taken out from wedge nut by rotating clockwise direction of spindle. Main cover/bonnet will be dismantled by loosening bonnet bolts & nuts.
4. Then wedge part to be taken out from the body.
5. Clean the inside of the body, foreign and dust particle to be remove the inside the body and top of the wedge.
6. Clean the faces of body seat ring and wedge face ring by emery paper.
7. Please check, there is any surface defect found on ring surfaces, if it is found then properly lapping will be done.
8. After ensure the proper matching between body seat ring and wedge face ring.
9. Again valve will be assembled as the same as above.



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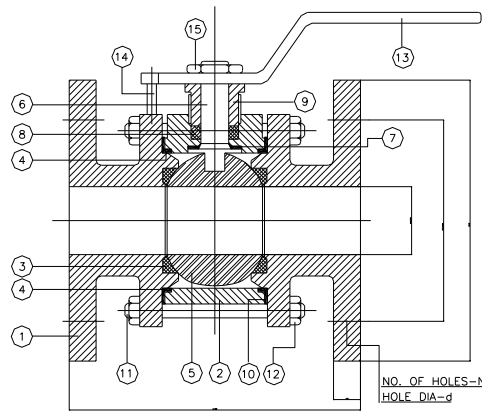
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MAINTENANCE MANUAL OF NON-RETURN VALVE

1. If there are leakages from seat for (valve sizes 80mm to 150mm) Rubber Seat will be replaced by new one.
2. Cover of valve shall be opened by loosening bolt & nuts.
3. Plug of valve at one end shall be dismantled. Removing plug hinge pin shall be taken out. Disc/Flap of valve will come out. In case of Rubber face, Retainer is taken out by loosening set screw. Replaced Rubber and again fixed with retainer. Disc/Flap arranged inside the NRV again. In case of metal seating Disc will be taken out on same process. Polishing of G.M seat is required to arrest leakages from seat.
4. After assembly it should be checked that Flap ring circle and Body Ring Circle shall be kept in concentric.

MAINTENANCE MANUAL OF POLYPROPYLENE BALL VALVE



1. During huge operation seat ring may damage. For screwed end valve one end of body (part-1) shall be loosened and opened.
2. Stainless steel ball will be taken out from body middle part after removing stem (part-6)
3. Worn seat (part-4) to be replaced by new one then again assembled.



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MAINTENANCE MANUAL OF Y-STRAINER

Filtration part some time drained out from strainer. For cleaning strainer it is drain out by dismantling the cover. After cleaning the strainer again it is placed inside the strainer body.

MAINTENANCE MANUAL OF SLUICE VALVE

1. Gland portion is required to be replaced, if deteriorated approaching during huge use of valve.
2. If there is passing in seat, body ring is damaged required to be replaced.
3. Cover is open by losing the cover bolt & nut.
4. G.M cover ring will be inserted in the body part.
5. After polishing seating surface, cover is assembly again.

OPERATION MANUAL OF PRESSURE REDUCING VALVE

(REFERENCE DRAWING NO.:U/13PRVAL-4)

After installing in the pipeline all the inlet and outlet gate valves before and after the pressure reducing valve is closed.

1. Open outlet drain cocks to drain off the pipeline. There must be air release valves in the outlet line to remove air from the pipeline completely.
2. Open the outlet gate valve (if required) just after pressure reducing valve.
3. Open the control cock (7) just one turn open the air release cock (15) of the cylinder to release air valve from the cylinder(8)
4. Open the inlet gate valve slowly (before pressure reducing valve) after starting the pump. now pressure reducing valve is open and water flows from inlet to outlet pipeline.
5. Keep in this position for few minutes. close air release cock (15) of the cylinder, after being assured that there is no air in the cylinder (control cock should always be open one turn).
6. Now open the inlet gate valve slowly to its full open position. Desired outlet pressure will come with proper adjustments of weights.



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FUNCTION OF PRESSURE REDUCING VALVE

(REFERENCE DRAWING NO.:U/13PRVAL-4)

The valve is controlled by a weighted piston operated in the cylinder (8) and acting a piston valve (4) through a pivoted lever (11). If the outlet pressure decreases, the weights overcome the pressure under the piston which slowly descends. Through causing the main valve (3) to open. This increases the outlet pressure. When the outlet gate valve is closed, outlet pressure rises and hydraulic load on the piston exceeds that of the weights (14) and the piston (3) slowly rises and causes the main valve to close.



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INSTRUCTION FOR ERRECTION OF THIMBLE FOR SLUICE GATE OF
IS:13349

1. Take out thimble parts from gate assembly
2. Construct center line of horizontal and vertical position of thimble. Erect thimble correctly by checking horizontal axis level gauge. At the same line vertical axis to be corrected.
3. Thimble will put inside the RCC pocket by maintained above condition. Proper setting of thimble is required during RCC work. Vibration may cause dis alignment. Mortar will insert the gap between the pocket and outside of thimble by pressure. It is to be ensured that mortar lining will fully cover on puddle of thimble. Hard ramming is required between the gap of surrounding the thimble.