## JR33 6-Way Transfer Valve

### Operation and Maintenance Manual



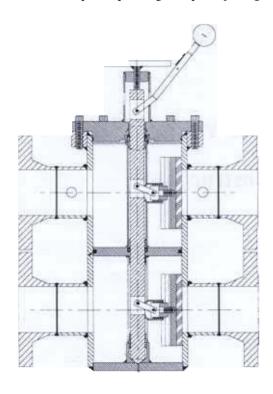


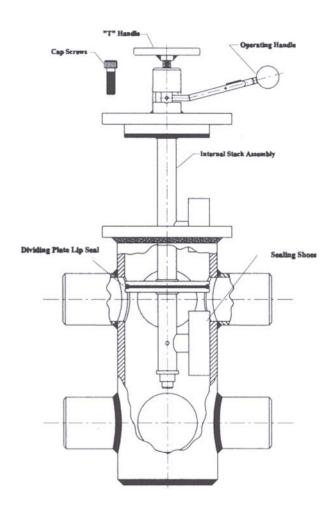
### JR-33 6-Way Transfer Valve

#### Section 1) Internal Stack Removal Procedure

Fully Loosen "T" Handle
1.1 Turn Counterclockwise

- 1.2 Push Operating Handle to the Down Position
  1.2.1 Place Operating Handle in middle position
- 1.3 Remove Socket Head Cap Screws
- 1.4 Pull Internal Stack Assembly Out of Valve
  - 1.4 Do not allow Sealing Shoes to rotate about their mounting screws as Internal Stack is removed.
  - 1.4.2 Exercise care when pulling Dividing
    Plate Lip Seal past edges of port openings.





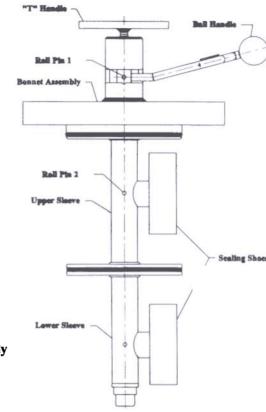


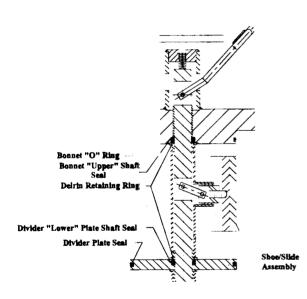
#### Section 2) Internal Stack Disassembly and Seal Replacement

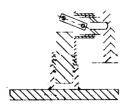
- 2.1 Fully loosen "T" Handle (counterclockwise)
- 2.2 Push Ball Handle to the full down position
- 2.3 Remove Roll Pin 1 with pin punch
  - 2.3.1 For 11/2", 2" & 3" use 3/16" punch
  - 2.3.2 For 4", 6" & 8" use 1/4" punch
- 2.4 Remove Ball Handle
- 2.5 Slide Bonnet with "T" Handle off shaft
  2.5.1 Allows access to upper shaft seal
  - 2.5.1 Allows access to upper snart sear

2.6 Position shaft so that Roll Pin 2 is visible in hole

- 2.6.1 Remove pin with appropriate punch
- 2.7 Remove shoe/slide link assembly from sleeve
- 2.8 Slide Upper Sleeve off shaft
  - 2.8.1 Allows access to lower shaft seal
  - 2.8.2 There is normally no need to remove lower sleeve assembly







- 2.9 Replace "O" ring seals and rings
  - 2.9.1 LUBRICATE ALL "O" RINGS/SEALS
  - 2.9.2 Upper shaft seal "O" ring "lip" faces down 2.9.2.1 Install Delrin Seal Retainer
  - 2.9.3 Lower shaft seal "O" ring "lip" faces up 2.9.3.1 Install Delrin Seal Retainer
  - 2.9.4 Divider Plate Seal "O" ring "lip" faces up
- 2.10 Remove and replace shoes if necessary
  - 2.10.1 Turn counterclockwise to separate shoe from slide assembly
  - 2.10.2 Refer to Section 3 for shoe adjustment
- 2.11 Re-Assemble stack on stable surface to ensure proper Roll Pin replacement.
  - 2.11.1 Ensure that there are no gaps between the Sleeve assemblies and Bonnet and Divider Plate
  - 2.11.2 Insert Roll Pin 2 through sleeve/shaft/link assembly
  - 2.11.3 Replace Bonnet Assembly and insert Roll Pin 1 through shaft and Ball Handle
- 2.12 Re-Install Internal Stack into valve body
  - 2.12.1 Exercise care when pushing Dividing Place Seal past edges of port openings

#### Section 3) Shoe Adjustment Procedure

- 3.1 Turn new shoe clockwise (tighten) until shoe is tight against the slide then turn shoe counterclockwise to vertical position (minimal partial turn)
- 3.2 Turn shoe counterclockwise per the following table to properly align shaft/shoe assembly

3.2.1 For 1.5" Valve - (1.5) Turns

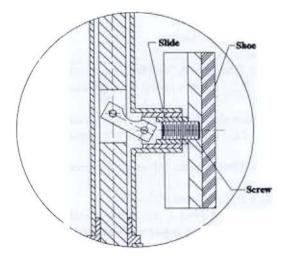
For 2" Valve - (1.5) Turns

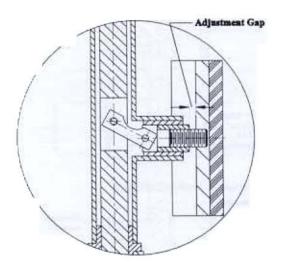
For 3" Valve - (5) Turns

For 4" Valve - (5) Turns

For 6" Valve - (5) Turns

For 8" Valve - (5) Turns





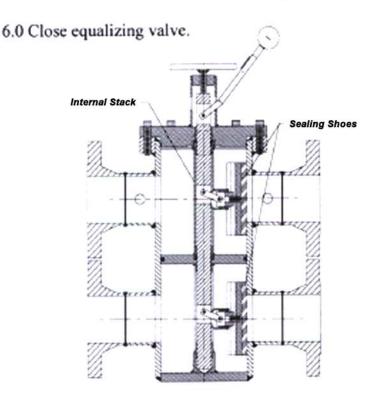


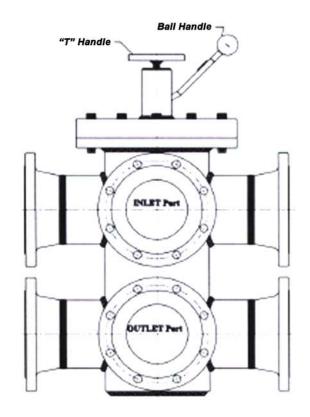
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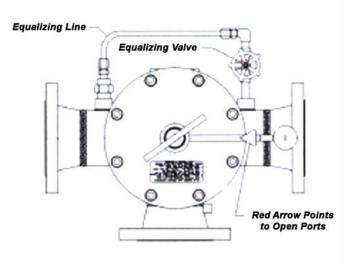


# JR-33 6-Way Valve Changeover Operating Instructions

- 1.0 Open equalizing valve
  - 1.1 Allow pressure to equalize
  - 1.2 Due to capacitance effect larger vessels may require several minutes to balance
  - 1.3 After off line vessel or piping is filled, ensure all vents, bleeds or drain lines are closed so that pressure will equalize.
- 2.0 Turn ""T" Handle counterclockwise approximately 6-7 turns
  - 2.1 DO NOT FORCE PAST STOP
- 3.0 Push Ball Handle downward to unseat sealing shoes
- 4.0 Rotate Ball Handle 180°
  - 4.1 Red Arrow Points to OPEN Ports
- 5.0 Release the Ball Handle and turn "T" Handle clockwise until sealing shoes are seated
  - 5.1 HAND TIGHTEN ONLY (20 IN-LB MAX)







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