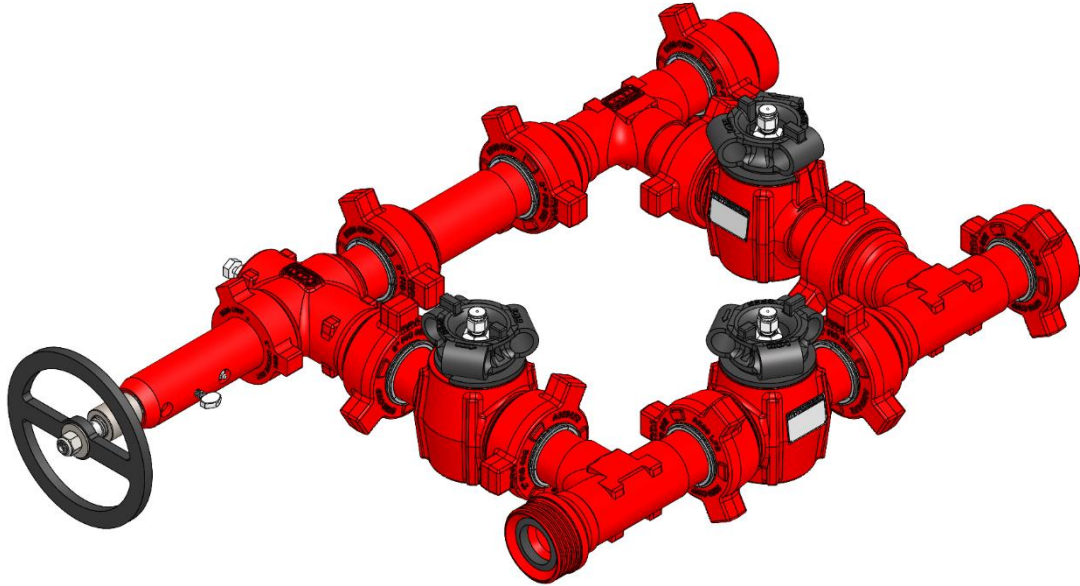


# Red Deer Ironworks

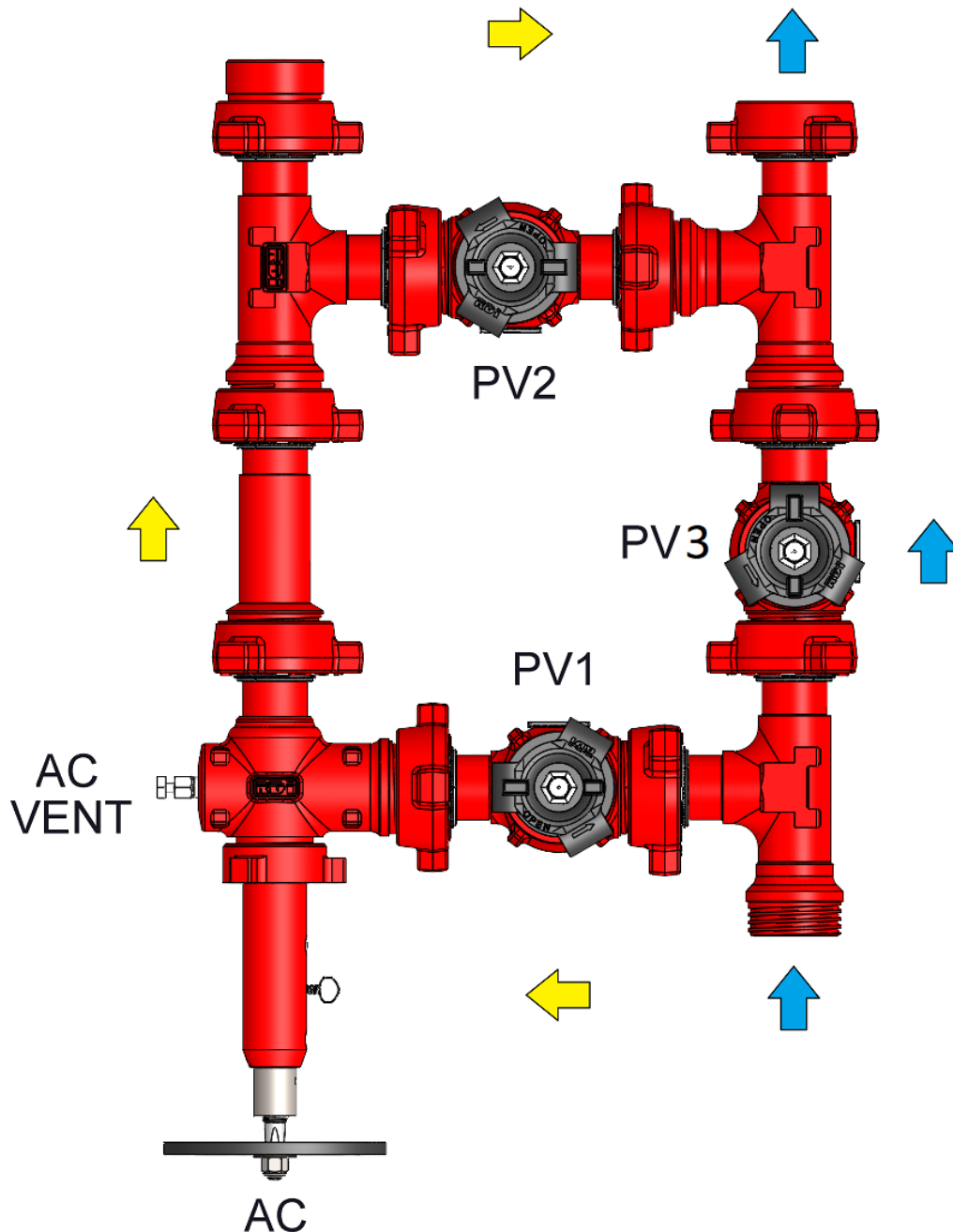


## MAN1204-A001 Operation Manual



The swabbing manifold is designed to control the flow rate of fluid flowing back from the well during swabbing operations. This design allows the operator to adjust the flowrate via the adjustable choke to obtain the desired flowrate.

When operating the plug valves always close the downstream valve first followed by the upstream valve, when opening always open the valves in the opposite order i.e. open the upstream valve first and then open the downstream valve. This will save the upstream valve from wear, as it will be opened and closed when there is no flow.



### Procedure to operate manifold

1. Follow all site and company specific safe operating procedures (SOPs) when completing the following steps.
2. See also operation manuals OM-02 & OM-07.
3. Before opening flow to the manifold do the following steps:
  - 3.1. Switching flow to the choke leg
    - 3.1.1. Ensure all vent fittings are closed.
    - 3.1.2. Open PV1.
    - 3.1.3. Then open PV2.
    - 3.1.4. Close PV3.
    - 3.1.5. Initiate flow through manifold, fluid will now be flowing through the adjustable choke (AC).
    - 3.1.6. Make adjustments to the adjustable choke (AC) until the desired flowrate is achieved.
    - 3.1.7. Flow is now directed through the choke leg of the manifold and the gutline is isolated.
  - 3.2. Procedure to start flow through gutline:
    - 3.2.1. Open PV3.
    - 3.2.2. Close PV2.
    - 3.2.3. Then close PV1.
  - 3.3. Procedure to completely stop flow through the manifold:
    - 3.3.1. Close PV2.
    - 3.3.2. Then close PV1.
    - 3.3.3. Then close PV3 (if open).

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