

Scope of Work

Control Valve

DE-CONTAMINATION

*****WARNING*****

All control valves must be decontaminated before removal from the plant area and the CSBP site.

A Yellow De-contamination tag will be attached to indicate this.

Do not commence work on the valve if the yellow decontamination tag is not present. (CSBP standard GM-11-031-30)

In this event contact CSBP immediately

*****WARNING*****

4.0 SCOPE OF WORK:

4.1 Test valve operation, include examination/condition of the following items

- identify valve and ensure that Equipment # is secure and legible.
(Supply CSBP approved Equipment # if missing or illegible.)
- mark/record orientation of valve components before disassembly.
- check valve and actuator for smooth operation.
- measure valve stroke/travel length and record.
- verify actuator bench set matches actuator Data Plate,
Record any difference.
- examine general condition of valve, ie corrosion, damage and record
'As Found' condition.

4.2 DISMANTLE VALVE BODY

Examine all gaskets faces, screwed connection and body internals for
Wear / damage or corrosion.

Note condition on control valve repair record worksheet.

4.2.1 Verify replacement parts/gaskets are of correct quantity and materials.

4.2.2 Repair or replace parts as authorised by CSBP.

4.2.3 Reassemble valve body with new gaskets and parts.

4.2.4 Verify replacement parts as authorised by CSBP.

4.3 DISMANTLE ACTUATOR

Examine springs, seals, bushes and diaphragm or piston.
(whichever is applicable) for wear/damage or corrosion.

Note condition on control valve repair record worksheet.

4.3.1 Verify replacement parts/gaskets are of correct quantity and materials.

4.3.2 Reassemble actuator with new seals and repair or replace other faulty Parts as authorised by CSBP.

4.3.3 Assemble actuator to valve body, ensuring correct orientation.

4.3.4 Adjust bench set and recorded.

4.3.5 Check valve and actuator for correct travel/smooth operation.

4.3.6 Verify valve fail safe position.

4.4 DISMANTLE POSITIONER (if fitted)

Examine parts including feedback assembly for wear/damage/corrosion.

Note condition on control valve repair record worksheet.

4.4.1 Verify replacement parts/gaskets are of correct quantity and materials.

4.4.2 Clean/blowout any accumulation of dirt from air passages and restrictor.

- 4.4.3 Reassemble using positioner overhaul kit and replace faulty gauges.
Repair/replace other faulty parts, or replace positioner if not economical to repair as authorised by CSBP.
- 4.4.4 Check condition and operation of air supply regulator where fitted.
Replace if faulty as authorised by CSBP.
- 4.4.5 Fit positioner to valve/actuator.
- 4.4.6 Adjust calibration of positioner to correct valve stroke.
- 4.5 DISMANTLE SOLENOID (if fitted)
Examine parts for wear/damage/corrosion.
Note condition on control valve repair record worksheet.
- 4.5.1 Verify replacement parts/gaskets are of correct quantity and materials.
- 4.5.2 Check coil for any signs of overheating.
- 4.5.3 Clean/blowout any accumulation of dirt from air passages.
- 4.5.4 Reassemble using solenoid overhaul kit.
Repair/replace other faulty parts, or replace solenoid if not economical to repair as authorised by CSBP.
- 4.5.5 Test operation of solenoid to ensure a tight shutoff.
- 4.5.6 Fit solenoid to valve actuator and verify valve failsafe position when solenoid is de-energised.
- 4.6 LEAK TEST VALVE TO ANSI SHUTOFF RATE (as per ANSI Standard B16.104)
- 4.6.1 Record leakage rate on control valve repair record worksheet.
- 4.6.2 Place valve in open position and static pressure test with hydro or air to flange pressure rating. (ANSI Specification)
Ensure that no leakage occurs.
- 4.6.3 Record static pressure test results :
on control valve repair record worksheet.
- 4.6.4 Protect flanges/screwed connections for transport.
- 4.6.5 Firmly secure valve to transport pallet.
- 5.0 RECORDS:
- 5.01 Sign off work order and complete history remarks.
- 5.02 Record details of any extra parts required to complete task,
I.E Description, Amount, Size, Stock # if known.
- 5.03 If any parts were supplied but not required please note changes required
to EPL or APL on the work order.
- 5.04 Return completed work pack to your supervisor for handover to CSBP
Planner.