

REMOTE CONTROL VALVE

Service and Maintenance Trouble Shooting Chart

APPLICATION

This remote control valve may be used in conjunction with a Relief Valve or Sequence Valve.

The operation of the Remote Control Valve duplicates the operation of the Valve Cap on the above listed valves. It can therefore, be installed at some distance from the valve which it controls to provide greater convenience when pressure adjustment is required.

To adjust the valve, first loosen knurled lock collar, then turn adjusting screw clockwise to increase pressure or counter clockwise to decrease pressure. Tighten lock collar securely after adjusting pressure.

INSTALLATION

Refer to Valve Model page below for mounting dimension and pipe connections. Compare the model number stamped on the remote control valve with the model number listed in the valve model page below to determine the correct pressure range for the valve. Do not install a remote control valve in the hydraulic system where the pressures are not compatible with the specifications for a particular valve model.

Connecting the pressure inlet port of the remote control valve to port "V" on the valve cap of the valve to be controlled. Use 3/8" O.D. tubing designed to safely carry the maximum pressure imposed on the hydraulic system. The tubing should be kept as short as possible, preferably not over 12'. A drain line must be provided which will connect the remote control drain port to the oil reservoir.

Should foreign material lodge on the seat of this valve it may be possible to flush the offending material from the valve seat. To do this, first release the knurled lock nut and turn adjusting screw counter clockwise until it feels free of spring load. Then start the pump and allow oil to circulate through the valve and back to the oil reservoir. Reset the adjusting screw for the correct pressure and tighten lock collar.

If this procedure does not remedy the trouble, the valve must be disassembled. Refer to valve model page below. Remove all parts Codes (1-12) and wash with a good solvent.

Wipe parts clean with the hand or use an air stream. (Do not use a cloth since it will leave a deposit of lint which can have an adverse effect on the valve characteristics.)

Inspect control valve seat and cone for nicks, foreign material or erosion. Replace damaged parts.

Refer to valve model page below for correct assembly of components. Tighten control head seat (Code 12) securely against valve body.

CAUTION

After assembly, the pressure must be checked with a reliable pressure gauge. It may be necessary to re-set the Allen Screw in the adjustment screwed knob so that maximum working pressure cannot be exceeded.

With lock collar (Code 7), screwed against cap (Code 4), and adjusting screw (Code 6), sets for the correct maximum pressure, adjust Allen Screw until it bears against lock collar. Re-seal Allen Screw to prevent tampering by unauthorized personnel. **EXCEPT FOR ABOVE REASON, DO NOT ADJUST NOR REMOVE THE ALLEN SCREW.**

NOTE

The pressure Inlet port is located on the end of the valve directly opposite from the pressure adjusting screw. The remaining port is the drain connection.

TROUBLE SHOOTING CHART

| TROUBLE | PROBABLE CAUSE | REMEDY |
|--|--|---|
| Valve will not build pressure | Dirt or foreign material in valve | Flush valve as instructed or disassemble and clean |
| Valve builds low pressure only or is not responsive to pressure adjustment | Valve Seat (Code 12) and cone (Code 10) are eroded | Replace seat and/or cone. CAUTION: Pressure setting may change with new parts. Check pressure with a reliable gauge. |
| Valve fails to build pressure after prolonged usage | 1. Spring (Code 9) has taken set. 2. Valve Seat (Code 12) and/or cone (Code 10) is eroded. | Replace spring. Replace damaged parts. CAUTION: Pressure setting may change with new parts. Check with a reliable pressure gauge. |
| Pressure setting is very erratic | Valve Seat (Code 12) and/or Cone (Code 10) is eroded. | Replace damage parts |

CAUTION: When new parts are used, the pressure setting may change, check pressure with a reliable gauge.

Reference: See Valve Print Page Listed Below for Parts Breakdown Listing.

| GFP # | Model # | GFP # | Model # |
|--------|----------|--------|----------|
| 092127 | VR131120 | 092124 | VR131101 |
| 092128 | VR132120 | 092125 | VR132101 |
| 092129 | VR133120 | 092126 | VR133101 |