HIP-10RV Field Adjustable Relief Valve

Maintenance Instructions
**HIP-10RV Field Adjustable Relief Valve**

**Description:**

The purpose of the HiP-10RV field adjustable relief valve is to allow the operator to adjust system pressures between 1,000 and 10,000 PSI for various test applications.

The standard materials include a stainless steel body and seat glands, EPDM o-rings, Teflon packing and nylon seats.

Inlet and outlet connections are ¼” female NPT. Reference assembly drawing number 403179 for a detailed parts list and dimensional information.

**HIP-10RV Field Adjustable Relief Valve Operating Instructions:**

**Operating Instructions:**

1. Install HIP-10RV in system. Inlet ports are located on the side of the body. Outlet port is located at the end of the body opposite of the handle.
2. Loosen the lock nut and back off handle until little or no spring tension is felt.
3. As system is pressurized, turn handle clockwise to set spring tension to desired pressure. Set lock nut to keep handle from rotating.
4. If system requires an increase or decrease in pressure, loosen the luck nut and adjust handle to required setting.

**Adjustment of the Opening Setting Instructions:**

1. Make sure there is no pressure in the valve.
2. Loosen the jam nut.
3. Adjust the set screw clockwise to increase the set pressure and counterclockwise to decrease the set pressure. Recommended adjustment is one full turn maximum at a time.
4. Test the valve by pressurizing through the inlet port.
5. Depressurize the valve before making further required adjustments.
6. Retighten the jam nut after adjustment is completed.
7. It is recommended that the set pressure be recorded on a wired tag and attached to the relief valve for reference.
HIP-10RV Field Adjustable Relief Valve Maintenance Instructions:

Disassembly Instructions:

1. Secure the assembly vertically in a soft–jawed vise with the handle at the top.
2. Loosen the nut.
3. Loosen the handle to relieve the spring compression. Loosen seat gland.
4. Carefully remove gland.
5. Remove the assembly from the vise and carefully invert to remove the internal parts: spring seat, spring, gland, 3/8-16 hex nut, and the handle.
7. From the top (spring housing area). Push the stem out of the assembly.
8. Remove the nylon seat, cage, spring, washer, o-ring, packing, and washer.

Assembly Instructions:

1. Replace worn or damaged items as required.
2. Reassemble the nylon set, cage, spring, washer, o-ring, packing, and washer in reverse order of removal.
3. Loosely assemble seat gland to finger tight.
4. Assemble stem into the packing area from the top.
5. Tighten seat gland.
6. Assemble the spring and spring seat.
7. Assemble the gland.
8. Assemble the handle.
9. Adjust the handle to set pressure. Counterclockwise to decrease the set pressure.
   Recommended adjustment is one full turn maximum at a time. Depressurize the valve before making adjustments.
10. Tighten the nut.