

**PURPOSE**

To obtain the maximum set pressure range of a KR-100 "L" pressure regulator when experiencing unstable outlet pressure readings.

**APPLICABILITY**

The PacSeal test technician or customer's field technician may notice the outlet pressure gauge to be unstable for the KR-100 "L" pressure regulator at the upper end of the rated regulated outlet pressure operating range (i.e., 1400-1700 psi). It is hypothesized that the seal container is twisting, which causes the supply seal ring to have less surface area on the flow plate, thus no longer holding a seal and allowing the outlet pressure to build erratically. To straighten the seal container and set a stable pressure, the pressure needs to be reduced slightly. Please note that this is the nature of the legacy product, KR-100. Thus, for higher dependability, it is recommended to use a KR-75 (1" outlet/1" inlet); which has the same flow requirements, vaster outlet pressure range, and lower price. For higher flow, the KR-140 (1.5" outlet/2" inlet) is recommended.

**PROCEDURE**

1. Notice the pressure at which the pressure gauge instability begins.
  - 1.1. If this is significantly below the desired set value then proceed to step 3.
2. Continue to increase the pressure with the manual or failsafe actuator operator until it is 50-100 psi greater than the desired set value.
3. Decrease the pressure slightly by 50-100 psi.
  - 3.1. ~1/4 turn for manual operator.
  - 3.2. ~One-two seconds of air/hydraulic pressure applied to failsafe actuator.
4. Reset the pressure regulator by opening and closing the supply then the outlet valve.
5. Observe the KR outlet pressure.
6. If necessary, repeat until desired set pressure is stable.
7. Fasten locking handle to set the desired pressure.

**RELEVANT DOCUMENTS**

N/A

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|------------|-------------|----------|----------------|--|----------------|
| D Beard    | J Beard     | A        | 6/7/2023       | KR-100 L Max Set Pressure Correction Procedure | 1 OF 1         |