

VP-4 VANE PUMP PRESSURE RELIEF

The Spectra vane type feed pumps used on Newport all direct drive and Newport 700 and 1000 mag drive systems are equipped with an adjustable internal pressure relief valve. When this valve opens water is allowed to flow from the discharge side of the pump to the suction side. The valve will frequently make a “chirping” noise as it opens each time the Clark pump shifts. In cases where the feed pump is not producing its rated flow and pressure, or you here a high pitched chirp at each shift, the internal relief valve setting should be checked

Shut down the watermaker. On the side of the pump is an acorn nut. Remove the nut, being careful not lose the o-ring which fits into a groove in the nut. If the unit is running the pump will now suck air and make a lot of noise. Under the acorn nut is a slotted screw. Turn the screw clockwise to increase the pressure setting. If the valve was open screw it in all the way and then back it off one turn. Replace the acorn nut. If the product flow and feed pressure readings increase then the valve was open. If there is no change the valve was closed, and the feed pump may be worn. Check HS LF – 7 for more details.

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