

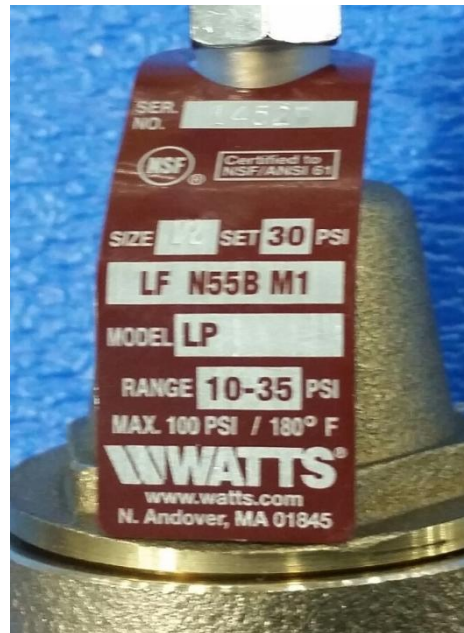
TECHNICAL SUPPORT MATERIAL

Routine and Preventative Maintenance

PRV

Pressure Regulator Valve

A pressure regulator valve is required on a final rinse dish machine to accurately control the final rinse pressure. The final rinse pressure is a requirement of codes and listing standards (NSF/ANSI #61), 20 psi is a minimum pressure while spraying final rinse. The type shown below is rated for pressure between 10 to 35 psi; the adjustment is in the middle of the valve's range which gives more accurate control. This valve is only used to control fine adjustments at the machine's final rinse manifold. If the building water pressure is in excess of 50 psi, a larger PRV should be installed before the booster or dish machine.



Rating: 100 max psi at 180F is the highest rating offered by the manufacturer for water pressure regulators.

To Remove or Install Valve

Before working on the plumbing, turn off the inlet water ball valve, operate the machine fill to relieve pressure in the manifold, and then open the line carefully. The valve has a female $\frac{1}{2}$ " pipe thread union on the inlet side and female $\frac{1}{2}$ " pipe threads on the outlet. Because the PRV is used with municipal water pressures and booster temperature it is hard plumbed for safety reasons. To remove, unscrew the union joint, it has an o-ring seal. Move the valve by tilting upward and twist off by turning left or counter-clock wise. Re install new valve in the same manner.



The union is seen at the right of the valve and has right hand threads with an o-ring seal



To Adjust Pressure

The valve can only reduce pressure; it cannot make more or increase existing pressure from the building. By turning the adjusting rod on top of the valve out (turning to the left) pressure is reduced down. If the center rod is moved up or down and has no effect on the final rinse pressure, it is defective or clogged and should be replaced. Although rebuilding kits are offered, historically, successful rebuilding has been limited.



After loosening the lock nut, turn the center rod out (left) to reduce pressure.