

The Griswold Model DW-PRV valve consists of (1) a main valve, (2) a pressure regulating pilot, (3) a solenoid control pilot, (4) a manual on-off pilot, (5) a Schrader valve to allow for downstream pressure measurement, and (6) a manual on-off bleed on the cover.

The DW-PRV valve is a normally closed valve. With its manual on-off pilot in closed position and its solenoid de-energized, the valve remains shut. Energizing the solenoid or opening the manual on-off pilot valve causes the valve to open.

Once open, the valve supplies constant downstream pressure with fluctuating or excessive upstream pressure. Desired downstream pressure is adjustable from 5 to 100 PSI.

A flow stem (cross handle) on the valve is provided for emergency shut off and for reducing closing time of the valve under low flow applications.

The on-off bleed on the cover of the valve allows for bleeding air out of the cover chamber and activates the valve without pressure regulation (for checking purposes)

**Required Tools to Set the Valve**

- 1) Standard Screwdriver
- 2) 0-150 psl gauge equipped with quick-connect fitting for attachment to tire type (Schrader) valve.

**To Set the Valve**

- 1) Remove the cap off the Schrader valve
  - 2) Attach the gauge kit to the Schrader valve.
  - 3) Turn the flow stem on the valve cover all the way out (counter-clockwise)
  - 4) Open the DW-PRV valve by turning its manual on-off pilot counter-clockwise two turns. DO NOT unscrew the bleed screw all the way. If no flow occurs, check for closed valves upstream of the DW-PRV.
  - 5) With water flowing through the valve, turn the adjusting screw on the regulating pilot until desired downstream pressure is observed on the gauge. Turning the adjusting screw "in" (clockwise) increases pressure, "out" (counter-clockwise) decreases pressure.
- NOTE: If turning the adjusting screw clockwise does not increase downstream pressure, upstream pressure may be too low. Check upstream pressure under flowing conditions.
- 6) Turn off the DW-PRV valve by shutting off it's manual on-off pilot valve. If the valve takes too long to close, turn the flow stem on the valve cover clockwise two turns.
  - 7) Open the valve by energizing its solenoid. After one minute, de-energize the solenoid. The valve should begin to close. If it is too slow, turn the cross handle clockwise 2 or 3 more turns.
  - 8) Disconnect the gauge kit; replace the Schrader cap. The valve is now set for normal operations.