



## Weighted Relief Valve Installation and Operation

Pathfinder Systems would like to thank you for your purchase of a weighted relief valve. You should find that it provides years of trouble-free operation. Please follow the instructions below:

### Warning

**The weights may have sharp edges. It is recommended that you wear gloves when you are handling the weights. Protect your eyes. Do not look into the discharging valve.**

1. Use Teflon tape on all threads. Hand tighten. Do not over tighten!
2. Mount vertical and plumb. Check regularly for proper operation and cleanliness.
3. We recommend lubricating mating surfaces with 30-weight oil. There should be a light film of oil on the plunger at all times.

Each valve body is 1 PSI. The valve has available either 0.5 PSI incremental weights or 1.0 PSI increment weights. Each valve size can utilize a maximum of (28) 0.5 PSI or (28) 1.0 PSI weights.

For example, a 2" valve set at 15 PSI would require (28) 0.5 PSI weights. Divide 15 PSI by 0.5 PSI = 30 and subtract (2) 0.5 for the body (1 PSIG) for a total of (28) 0.5 weights.

Another example, a 3" valve set at 17.5 PSI requires (16) 1.0 PSI weights and (1) 0.5 PSI with 1.0 PSI for the body.

4. To adjust the weights, use a snap ring pliers to remove the snap ring and then add or remove weights. The snap ring is not necessary for operation. It is provided so that once weights are set, the valve cannot be easily modified in the field. If necessary, you may install a wire with a lead seal to prevent the valve from being modified.

**CAPACITY CHART**

