

RELIEF VALVES SERIES "RVD" PRESSURE SETTING AND INSTALLATION INSTRUCTIONS

IMPORTANT – BEFORE INSTALLING

The Series "RVD" relief valve, when properly adjusted and installed, will eliminate the development of abnormal overpressures in piping systems and play an important part in the promotion of uninterrupted equipment service. They are not recommended for air or gas applications.

CAUTION: The Series "RVD" relief valve is not a "Pop Safety" valve and should not be used in applications requiring such a valve. The Series "RVD" relief valve will open gradually as the set pressure is reached and as the pressure drops it will gradually close and shut at a somewhat lower pressure than the set pressure.

PRESSURE SETTING INSTRUCTIONS

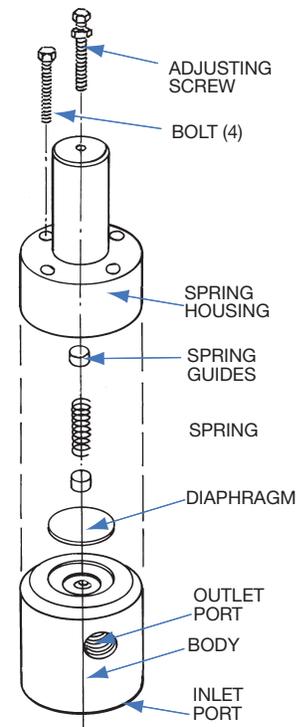
If a specific pressure rating is specified on the Series "RVD" relief valve order, the valve will be preset and labeled accordingly at the factory.

If the Series "RVD" relief valve order does not specify a specific pressure rating, the valve will be assembled with the lowest range spring and two bolts. The spring can be changed to achieve a higher range. From the enclosed tagged springs choose the correct spring for the relief requirements before assembly with all four bolts. Do not exceed the pressure range indicated for a given spring or spring combination. Always check the relief pressure setting after disassembly of the valve or adjustment screw as follows:

To set the relief pressure, attach a pressure line with gauge and regulator, with the pressure regulator adjusted to the required relief pressure, to the inlet of the Series "RVD" relief valve.

Apply the required pressure to the Series "RVD" valve and if the valve relieves prematurely, turn the adjusting screw down to increase the relief setting. If the valve does not relieve at the desired pressure, turn the adjusting screw up to decrease the relief setting.

If air is used as the pressure line, water should be placed in the outlet port of the valve to accurately detect relief. When properly adjusted the valve should emit a steady stream of air bubbles, about 2 every second, at the desired pressure setting.



INSTALLATION INSTRUCTIONS

The Series "RVD" relief valve should always be installed as near as possible to the line or vessel being protected.

Refrain from attaching a Series "RVD" relief valve to metal threads wherever possible. Metal tapered pipe threads are often very sharp and tend to expand the valve's plastic body which will create stress points or cracks contributing to the failure of the valve.

Since the body of the Series "RVD" relief valve can be marred by pipe wrenches, it is recommended that strap wrenches be used for installing this valve in piping systems. It is not necessary to use much force in making a tight joint - little more than hand tight on the threads is usually sufficient. Forcing the threads is not necessary and should be avoided.

Apply a suitable thread sealant (as compatible tape) to male tapered threads to assure a "leak-tight" seal. Note that sealing tape will "string" as pipe threads are joined. Loose "strings" could lie across the seating surface and prevent the valve from completely closing. To avoid this problem, clean out old tape, and do not apply tape to the first thread. THERMOPLASTIC COMPONENTS CAN BE DAMAGED by contact with chemicals found in some thread sealing compounds (Pastes, Caulks, Tape, Dope, Lubricants, etc.) Reasonable care needs to be taken to ensure that products coming into contact with thermoplastic systems are compatible. Plast-O-Matic recommends confirming chemical compatibility with the manufacturer of the thread sealing product.

Never install a Series "RVD" relief valve in such a manner where the outlet will be subjected to a back pressure from a pressure line or a pressure vessel.