

PRESSURE REGULATORS — SERIES PRE

INSTALLATION & MAINTENANCE INSTRUCTIONS

IMPORTANT — BEFORE INSTALLING

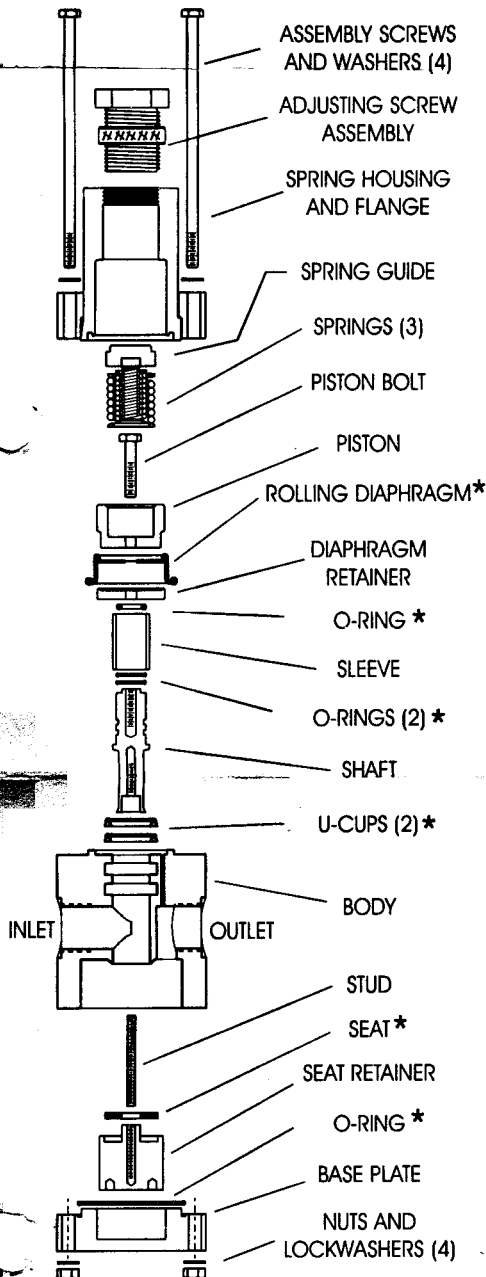
Series PRE pressure regulators will prevent downstream pressure from exceeding the set pressure, when properly installed and used within the recommended ranges of pressure, temperature, and chemical compatibility. A Pressure Regulator *does not* maintain a specific downstream pressure if inlet pressure or flow is too low. The ultimate determination of material compatibility is previous successful use in the same application. See the Product Data Sheet or call our Technical Support for information about your application.

Caution: Quick closing valves installed downstream of the regulator may cause water hammer. This may cause leakage or seal damage. Plastic materials will degrade in ultraviolet (UV) light or sunlight. Polypropylene and PVDF (Kynar) often look similar. Do not install in your system if you are not sure.

PRESSURE RATINGS

Inlet pressure	150 PSI at 75°F (10 Bar at 25°C)
Outlet pressure	125 PSI at 75°F (8 Bar at 25°C)

PARTS DESCRIPTION



* These parts included in Seal Kit

INSTALLATION

Install the valve in the proper flow direction as indicated by the flow label. The valve may be positioned vertically or horizontally. Proper installation should include pressure gauges mounted upstream and downstream of the regulator for pressure setting and verification.

Threaded Connections - Apply a suitable thread sealant (for example, Teflon® tape) to male tapered threads to assure a "leak-tight" seal. Assemble "hand-tight" followed by a quarter (1/4) turn with a strap wrench. Do not over tighten or use pipe wrenches on plastic pipe and components.

Caution: Teflon® 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.

Caution: Connect to plastic pipe and fittings only; when using metal pipe, install an intervening plastic fitting. Metal pipe and straight threaded pipe tends to cut, stretch, and distort the plastic bodies, resulting in cracking or leaking over time.

Non-Threaded Connections- For solvent cementing or heat fusion, follow the instructions supplied with the cement or fusion equipment, or contact your distributor.

Mounting - These valves are designed to be supported by the piping. The piping must be properly supported, taking into account the weight of the valve, piping, and process liquid.

PRESSURE SETTING

Series PRE senses downstream pressure; a pressure gauge should be installed at the outlet of the valve to accurately set the regulator. Downstream set pressure range is 10 to 125 psi. The following procedure is for static (no flow) pressure setting. Under flow conditions, the outlet pressure may be slightly lower.

1. Install the regulator in the piping system. Close all downstream outlets to stop flow. The inlet pressure must be higher than the desired set pressure.
2. Loosen the locking nut on the adjusting screw assembly.
3. If the outlet pressure is too low, turn the screw clockwise (into the spring housing) until the set pressure is reached.
4. If the outlet pressure is too high, turn the screw counterclockwise (out of the spring housing) until the set pressure is reached. A downstream outlet valve must be opened to allow pressure to drop.
5. Tighten the locking nut to lock in the setting.

Pressure can also be set under dynamic (with flow) conditions using the same procedure. If pressure is set under dynamic conditions, outlet pressure will increase when downstream flow is reduced.

MAINTENANCE

Plast-O-Matic recommends keeping a spare seal kit available for repairs. Seal life will vary in applications due to cycles, temperatures, pressures, chemicals, and concentration. Based on the application, a periodic inspection and maintenance plan should be established. The seal kit part number is "SK" plus the part number less the material suffix. For example, the seal kit for PRE050V-PV is SKPRE050V



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