

Overpressure Protector / Pressure Limiting Valve Installation & Maintenance

Models: PLV-2550, PLV-255 & PLV-71620

Installation

The Inlet and outlet ports of the valve are both female connections, with an arrow on the body of the valve indicating the instrument port. The gauge or other pressure instrument can be threaded directly to the outlet port, or piping can be used. It is, however advisable to keep the pressure sensing device as close to the valve as possible. This keeps the volume of the pressure cavity minimal and shortens the time constant.



Chemiquip recommends the use a chemiquip snubber with the limiting valve. The snubber is attached to the inlet port and its function is to (1) dampen any pressure pulsations before they reach the valve and gauge and thereby assure a smooth response and accuracy of the valve to pressure changes and (2) prevent the entrance of any solid contamination into the valve.

Adjustment

With pressure source connected to the inlet port and a gauge connected to the outlet port, apply pressure slowly and note gauge shut-off pressure. Release inlet pressure and re-set adjusting screw (clockwise for an increase and counterclockwise for a decrease in pressure protection point). Repeat these operations until the desired gauge shut-off point is reached. For accurate repeatable results it is imperative to remove the inlet pressure before making adjustments. Do not exceed shut-off rating for the valve style number.

Maintenance

A repair kit is available with the following parts; All O-rings, spring, spring-button and Teflon disc. To replace these parts, follow this disassembly sequence (only after pressure has been relieved from line). Remove adjusting screw and locknut. Remove upper housing from body. Remove spring, spring button and Teflon disc from upper part of housing. Remove piston from lower part of housing. With these parts separated replace the parts listed above and reassemble in reverse of the above order. Secure housing to body with about 200-pound inches torque. The valve must now be readjusted to the desired protection point.

It is the customer's responsibility to verify that the medium is compatible with the O-rings

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