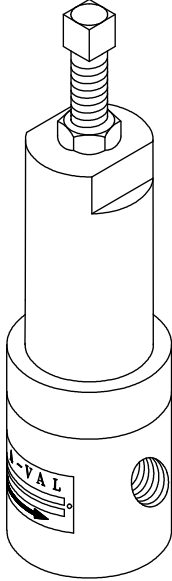


STRA VALVES STRAINERS VAL



Applications:

Designed for clean, filtered or strained, non-abrasive liquid service: oils, lubricants, greases, solvents, and most non-fluorinated chemicals compatible with Teflon PTFE seals. Valve is piston-operated, metal-seated without any elastomers. **Do not use for extended shutoff service** or for extremely low flows (less than 5% of maximum capacity). Values below the low limit of the spring ranges shown below can be achieved if the flow rates are substantially higher than the minimum 5% of maximum rated capacity. To be on the safe side, a relief or bypass valve should always be installed on the outlet side of the regulator (not included with valve). For outlet pressures above the ranges stated below, request the single piston model [PRH04](#), that is specifically designed to handle the higher outlet pressures that the PRH09 cannot handle. Do not use with liquids that tend to crystallize or solidify under operating conditions. Not for use on steam service as operating temperatures can easily exceed the limitations of the seal selections below. Consult factory for steam & gas service. The balanced piston design of this model accommodates large variations in inlet pressure. When ordered, if a set pressure is not specified, valves are set to the minimum pressure setting for the range selected. Valve can operate in any orientation: vertical, horizontal, etc. A high-pressure filter or strainer, which should be no coarser than #20 mesh, can be ordered from Stra-Val. See model [SBS-10](#).

Principle of Operations:

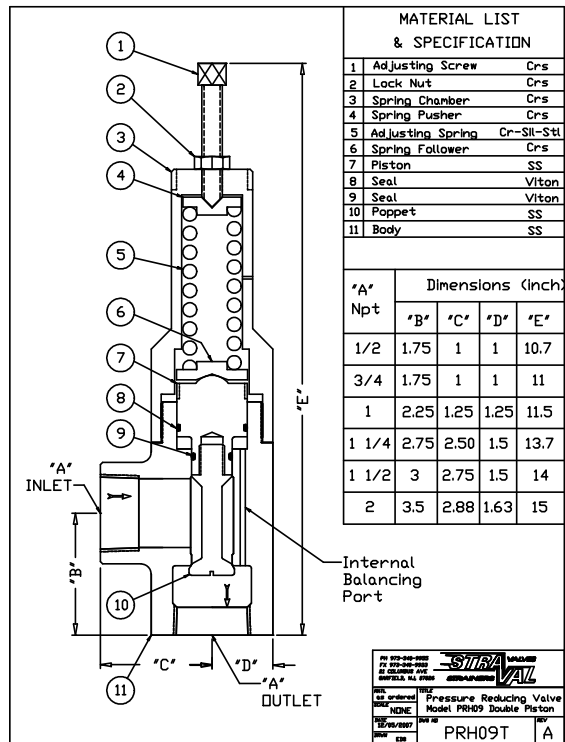
This valve operates with a compression spring acting on the main valve which is used to adjust the outlet pressure with an adjusting screw. The reduced outlet pressure is very easily adjusted in the field. To increase outlet pressure, simply loosen adjusting screw lock nut (2) to increase spring compression by turning the adjusting screw (1) inward. Similarly, to get a lowering in outlet pressure requires a reduction in spring compression by turning the screw outward. A pressure gauge is required on the outlet side of the regulator somewhere in the downstream piping about 10 pipe diameters after the valve, to monitor the result while making the adjustment. The valve will operate in a vertical orientation as illustrated, horizontal, or any other orientation.

MODEL PRH-09 THD PRESSURE REDUCING VALVE SPRING & DOUBLE PISTON OPERATED 1/4"-2" NPT THD

**Inlet pressures to 1500 PSI (~100) bar
Outlet Pressures 20-450 psi (1.4-30 bar)**

FEATURES:

- **Pressure-containing parts** made from solid bar stock materials — unlike castings which have wall thickness variations.
- **Body and trim:** Standard material is type 303 or 316 stainless steel. Special alloys (e.g. Hastelloy, Monel, titanium, and Alloy 20) also available.
- **Elastomeric seals:** Choice of Viton, EPDM, Kalrez, and PTFE use with permits a wide variety of applications.
- **Spring chamber and adjusting spring:** These parts are non-wetted, are not in contact with the fluid or gas, and are normally offered in carbon steel, painted for minimal exterior corrosion-resistant protection. When these parts are submerged or located in a corrosive atmosphere, they can be upgraded to a stainless steel or other corrosion-resistant materials at an additional cost.
- **Standard porting:** Right-angle porting, NPT threads (side inlet, bottom outlet). Valve works in any orientation, upright as illustrated, horizontal, etc. See also flanged model [PRH-09-FLG](#).
- **Optional porting:** Side outlet (parallel port), or in-line porting can be supplied at additional cost when requested.
- **Other options:** Reduced trim for low-flow applications, locking cap, inlet or outlet pressure gauge ports,



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