

## 25 MP Direct Operated Pressure Regulator

### Installation

The 25 MP is best installed in a horizontal line with the adjustment screw at the top. A strainer before the valve will protect it from line dirt. Fit the strainer on its side and ensure adequate clearance for screen removal. Use fullway pattern isolating valves and piping of adequate size to carry the steam flow. A downstream pressure sensing connection must be made to the port on the lower diaphragm housing as shown. Copper tubing 5/16" O.D. is preferred, with a 1/4" steel pipe as an alternative.

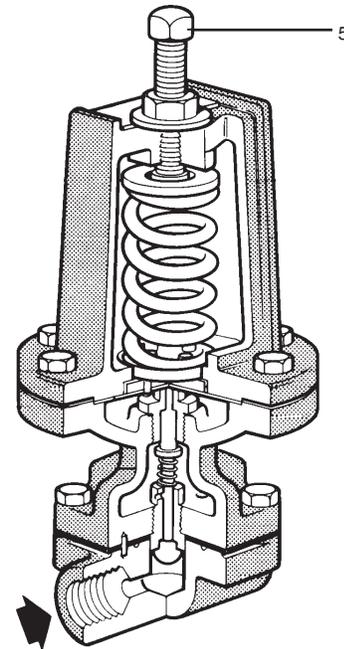
The 25 MP control will give long, trouble free service when correctly installed and kept reasonably free from dirt or other foreign matter. These mostly collect during installation. Avoid later troubles by inspecting the installation a few days after commissioning.

1. Clean all pipeline strainers (remove screens to clean).
2. Check the valve seat.
3. Check all joints for tightness.

**Caution:** Before installation or any maintenance is performed, insure that all steam lines are closed to prevent injury.

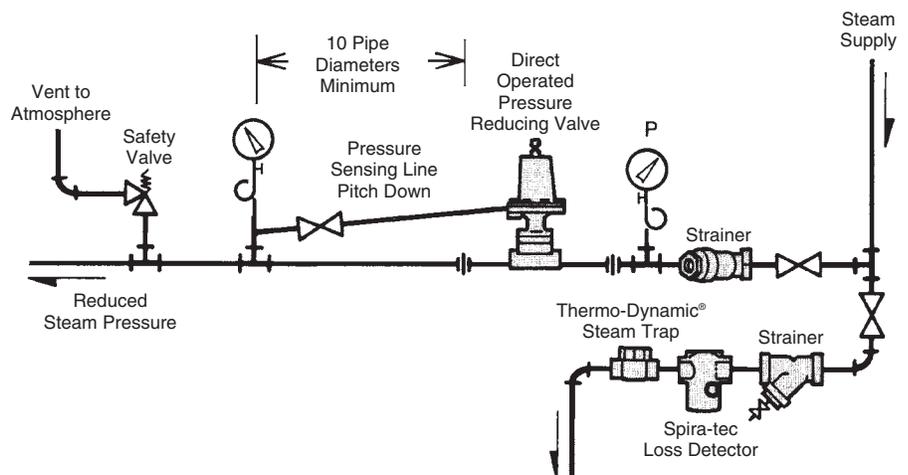
### Start-up

1. First make certain that all stop valves are closed.
2. Loosen locknut. Remove pilot spring cover, then turn the pressure pilot adjustment (5) counterclockwise until spring is slack. Make certain spring remains in vertical position and centered in its retainers.
3. Open stop valves in the following order:
  - a. Open stop valve ahead of steam trap on steam supply line. This will insure condensate-free steam at the regulator inlet when put into operation.
  - b. Isolate pressure sensing line.
  - c. Slowly open inlet stop valve.
4. Slowly adjust pilot by turning the pressure adjustment bolt (5) clockwise until reduced pressure required is indicated on pressure gauge downstream of valve.
5. Slowly open downstream stop valve.
6. Once the system has stabilized, it



may be necessary to make a pressure readjustment. Repeat procedure 4 if required. Replace spring cover, then tighten adjustment locknut.

7. **IMPORTANT** - Retighten flange connection to body to ensure steam tight joints, after 24 hours operation. Torque 20 lb/ft.



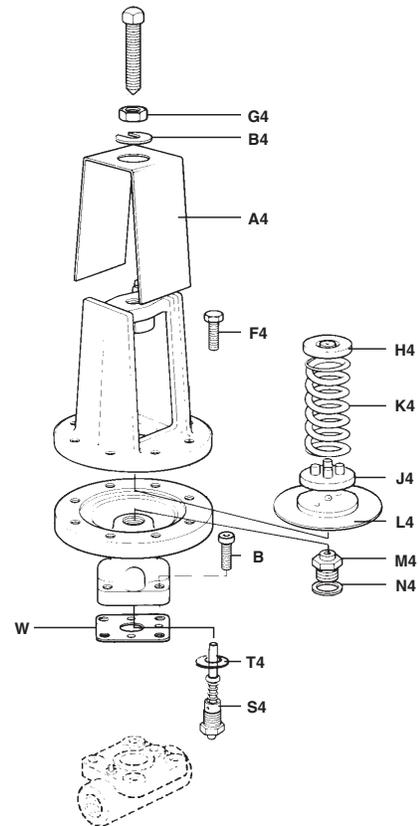
## Maintenance and Repair

The pressure control spring is replaceable by removing the aluminum cover and turning the adjustment (5) counterclockwise. After fitting new spring, insure that spring support discs are properly located and the adjustment (5) is entered in the center hole of the support disc. Valve assembly is supplied as a set. A new gasket supplied with each set should be fitted to insure a steam tight seal. Insure gasket faces are clean and free from deposits before refitting.

Stem guide and gasket set are replaceable after removing the upper housing, first remove the control spring as described above. To obtain access to the stem guide, removal of the diaphragm is necessary. The diaphragm is sandwiched between the upper and lower housing to provide a flexible seal. Since it forms a pressurized steam joint, replacement of the diaphragm is recommended if this joint is broken.

## Spare Parts

Available Spare	Part No.
Cover Plate with Retaining Ring	A4, B4
Adjustment Screw with nut and, upper and lower spring support disc	G4, H4, J4
Adjustment Spring (specify range)	K4
Diaphragm Assembly	L4
Stem Guide with Gasket	M4, N4
Head and Seat Assembly with Gasket	S4, T4
Square Gasket	W
Pilot Screws and Gasket	B, W



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