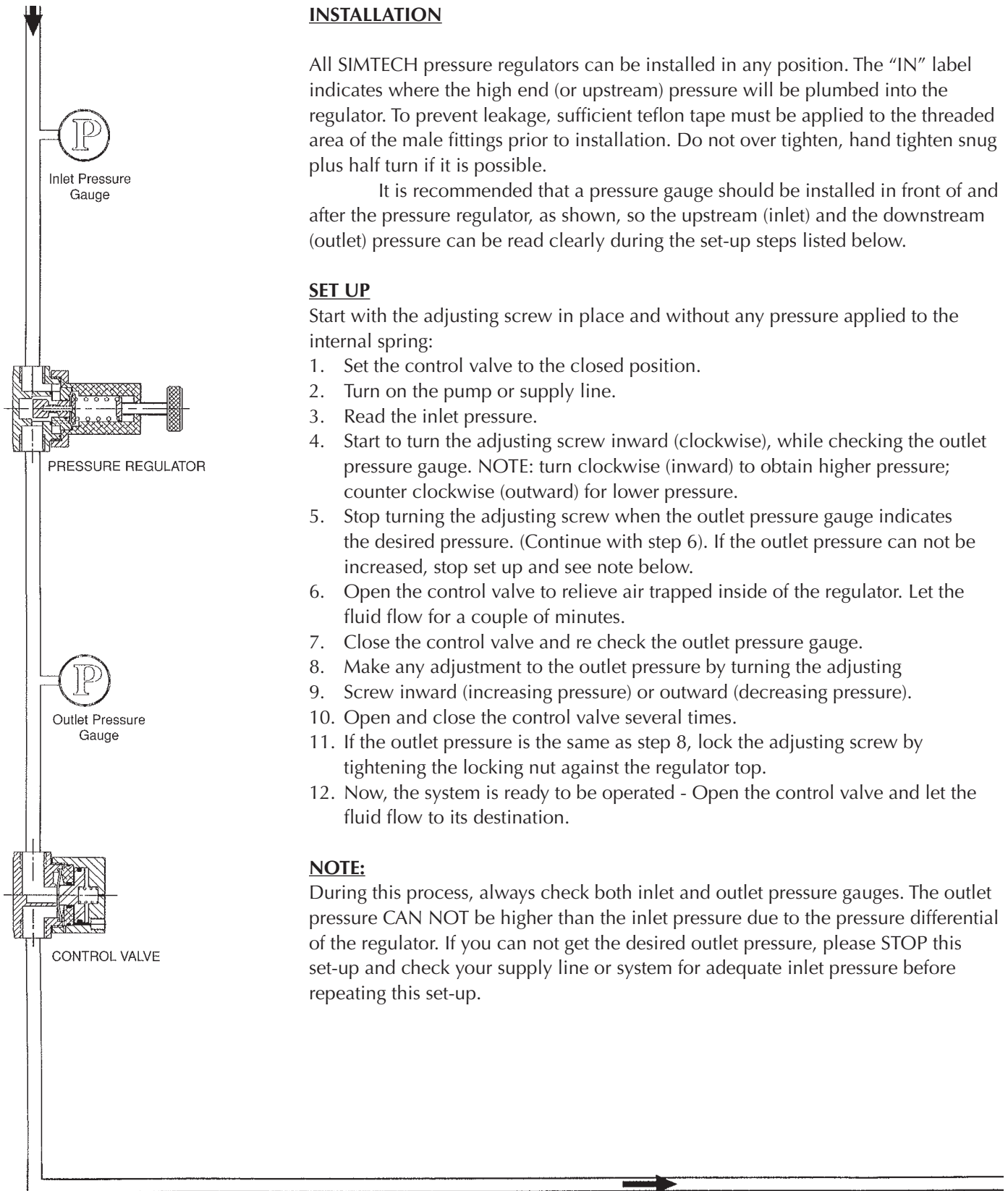


# Pressure Regulator Installation & Set-Up Manual



## INSTALLATION

All SIMTECH pressure regulators can be installed in any position. The "IN" label indicates where the high end (or upstream) pressure will be plumbed into the regulator. To prevent leakage, sufficient teflon tape must be applied to the threaded area of the male fittings prior to installation. Do not over tighten, hand tighten snug plus half turn if it is possible.

It is recommended that a pressure gauge should be installed in front of and after the pressure regulator, as shown, so the upstream (inlet) and the downstream (outlet) pressure can be read clearly during the set-up steps listed below.

## SET UP

Start with the adjusting screw in place and without any pressure applied to the internal spring:

1. Set the control valve to the closed position.
2. Turn on the pump or supply line.
3. Read the inlet pressure.
4. Start to turn the adjusting screw inward (clockwise), while checking the outlet pressure gauge. NOTE: turn clockwise (inward) to obtain higher pressure; counter clockwise (outward) for lower pressure.
5. Stop turning the adjusting screw when the outlet pressure gauge indicates the desired pressure. (Continue with step 6). If the outlet pressure can not be increased, stop set up and see note below.
6. Open the control valve to relieve air trapped inside of the regulator. Let the fluid flow for a couple of minutes.
7. Close the control valve and re check the outlet pressure gauge.
8. Make any adjustment to the outlet pressure by turning the adjusting
9. Screw inward (increasing pressure) or outward (decreasing pressure).
10. Open and close the control valve several times.
11. If the outlet pressure is the same as step 8, lock the adjusting screw by tightening the locking nut against the regulator top.
12. Now, the system is ready to be operated - Open the control valve and let the fluid flow to its destination.

## NOTE:

During this process, always check both inlet and outlet pressure gauges. The outlet pressure CAN NOT be higher than the inlet pressure due to the pressure differential of the regulator. If you can not get the desired outlet pressure, please STOP this set-up and check your supply line or system for adequate inlet pressure before repeating this set-up.