



GP-2000 K1, K3 and K6 Pressure Reducing Valve Installation and Maintenance Instructions

Bulletin AY-719-B

Typical Single Stage Reduction Installation (for Steam)

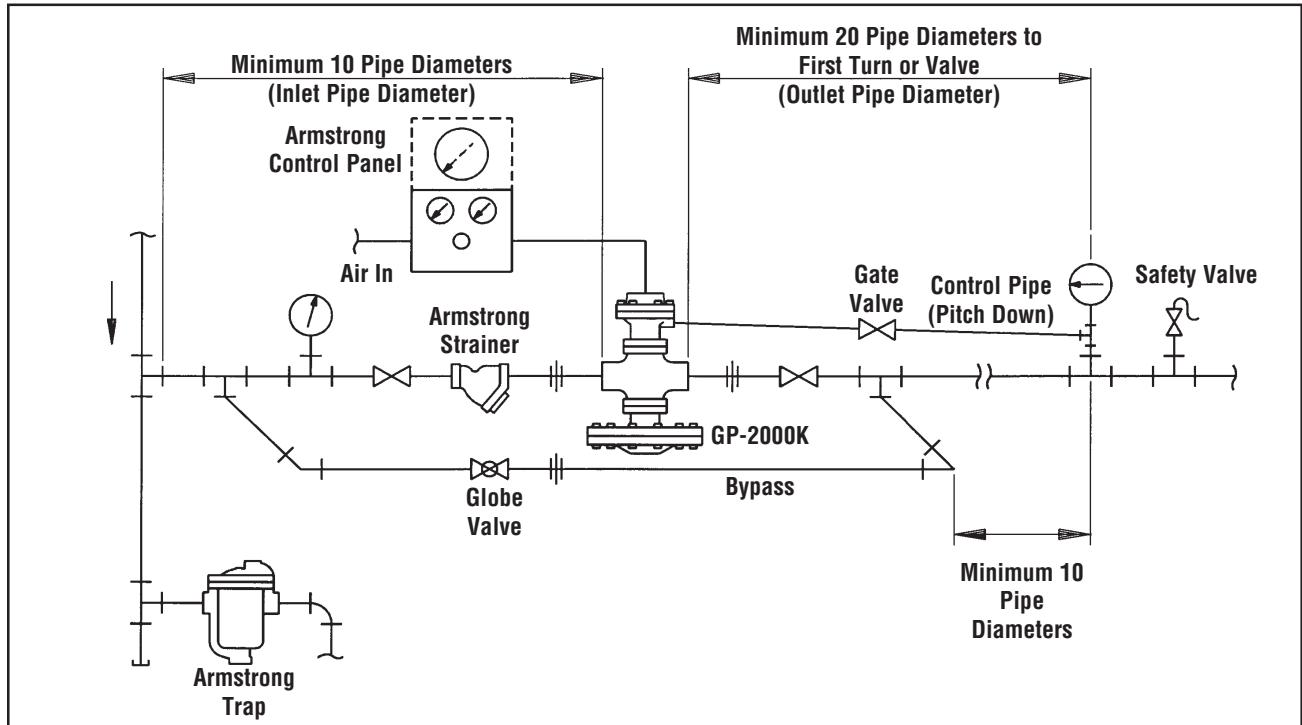


Fig. 1-1

Installation Instructions

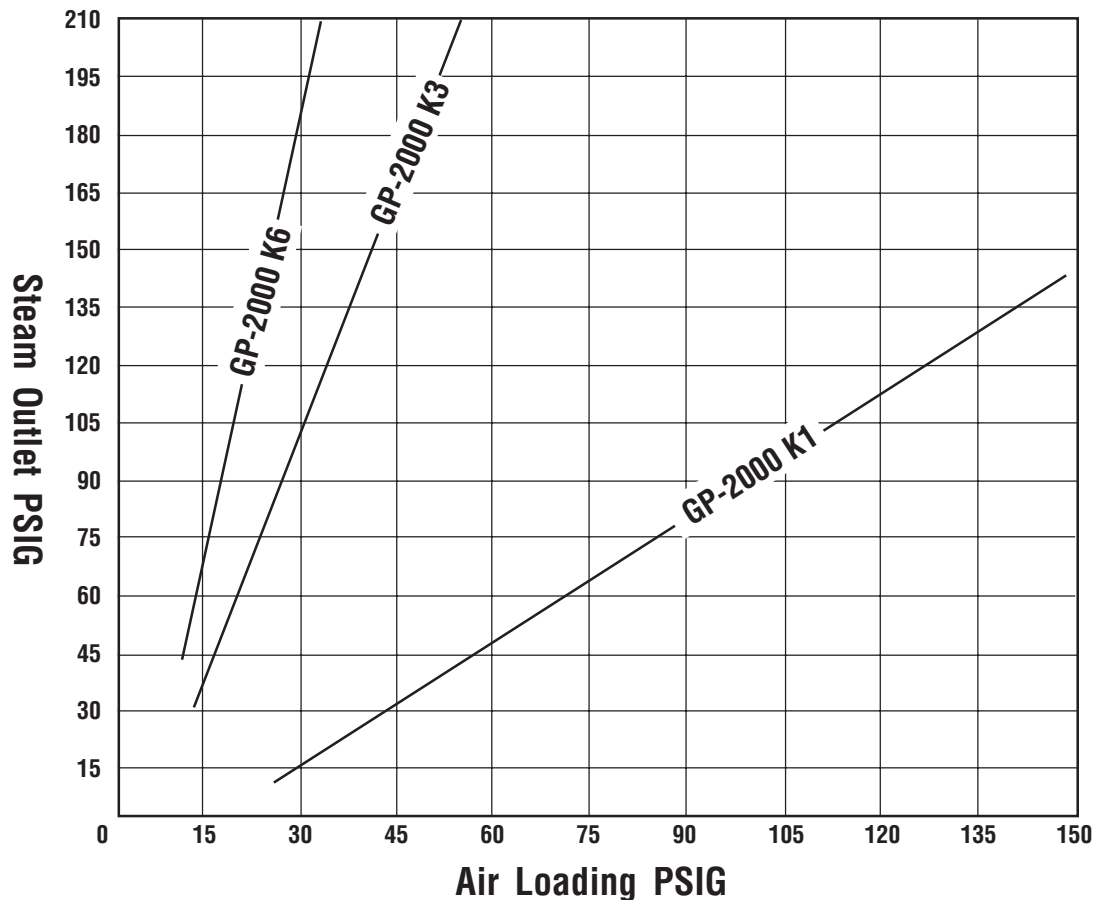
1. An Armstrong Inverted Bucket Steam Trap is recommended to drain condensate at inlet of PRV.
2. An Armstrong Y-strainer should be installed before the PRV to reduce the chance of dirt fouling.
3. Pressure gauges should be installed before and after the PRV. The downstream gauge should be installed in or near the control pipe (5/16" O.D.).
4. Control pipe connects into a 1/4" tapping on the side of the pilot valve. Be certain the control pipe is **pitched away** from the PRV. Irratic control could result if this is not done. Pipe length should be a minimum of 10 outlet pipe diameters.
5. If two stage reduction is needed, a minimum of 20 pipe diameters between valves is recommended.
6. By-pass line around PRV will allow system operation while valve is being serviced.
7. Install PRV with main diaphragm housing down and making sure the flow is in the direction of the arrow on the PRV body.
8. Do not install quick opening and closing valve on the downstream side of PRV.

GP-2000 K1, K3 and K6 Startup and Adjustment Procedures

Note: Improper adjustment of the valve could cause hunting, water hammer or damage to the main parts of the valve itself.

1. Open valve on drip leg to allow inverted bucket trap to drain the condensate on the PRV inlet.
2. Open the by-pass valve around PRV to blow the system down. Care should be taken not to open the valve completely so the safety valve does not open. After adequate time to clean the system, close the valve.
3. Set air loading pressure to top of the PRV.
4. Open valve on the outlet of PRV and also on control pipe.
5. Open inlet valve to PRV - **slowly**.
6. Adjust air loading pressure until the desired outlet pressure is achieved on the downstream pressure gauge. **Note:** Steam demand must be present in order to properly set the PRV.
7. Adjust again after the entire system stabilizes.

Fig. 2-1



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