

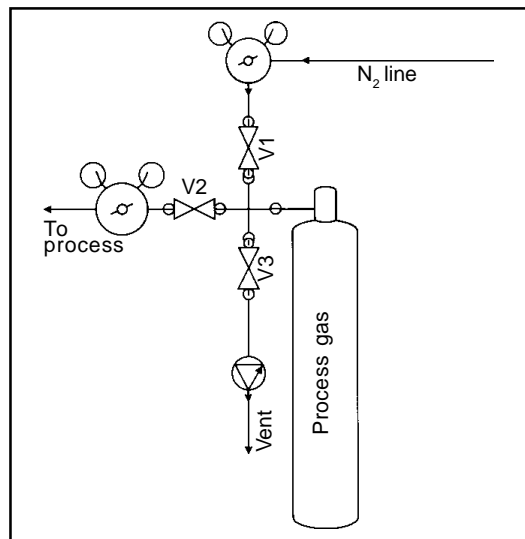
Cross purge for gas cylinders

CROSS PURGE PROCEDURE

I First-time regulator hook-up.

The purpose of this procedure is to remove air and moisture from the gas lines before the process gas is introduced.

After tightening the CGA connection of cross purge assembly to the process gas cylinder attach nitrogen purge to V1 (valve one). Next, attach V3 (valve three) to vent line. Attach process gas regulator to V2 (valve two). Turn process gas regulator pressure-control knob fully counter-clockwise to the "off" position so that no gas will flow downstream. Make sure valves V1, V2 and V3 are closed.



- 1) Set purge nitrogen to 30 psi on regulator attached to V1.
- 2) Open V2 (valve 2 or middle valve).
- 3) Open V1 (valve 1 or top valve). Purge nitrogen will flow into the system back to the CGA and into the high pressure side of the process gas regulator.
- 4) Close V1.
- 5) Open V3. Positive N₂ pressure (30 psi) will force residual gas and atmosphere out. If possible, attach V3 to vacuum source. This will greatly improve purge efficiency.
- 6) Close V3.
- 7) Repeat steps 3 through 6 ten times.
- 8) Close V1 and V3.
- 9) Open process gas cylinder valve.
- 10) V2 is left open during this procedure. You are ready to procede.

II Cylinder change out

The purpose of this procedure is to remove any toxic or corrosive gases from the CGA connection at the process gas cylinder before the regulator and cross purge assembly is removed.

- 1) Close pressure gas cylinder valve.
- 2) Back off hand wheel and close regulator set. Turn regulator pressure control knob fully counter-clockwise to the "off" position.
- 3) Close V2.
- 4) Open V1 and pressurize system with 30 psi nitrogen.
- 5) Close V1.
- 6) Open V3. Vent purge nitrogen.
- 7) Close V3.
- 8) Repeat steps 4 through 7 ten times.
- 9) Change process gas cylinder.

When new cylinder is in place, follow the procedure for first-time regulator hook-up. During the purge process, do not open V2 until the purge process is completed.

For catalog numbers:

Z25,972-1 (CGA 580)

Z25,974-8 (CGA 540)

Z25,975-6 (CGA 330)

Z25,976-4 (CGA 660)

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