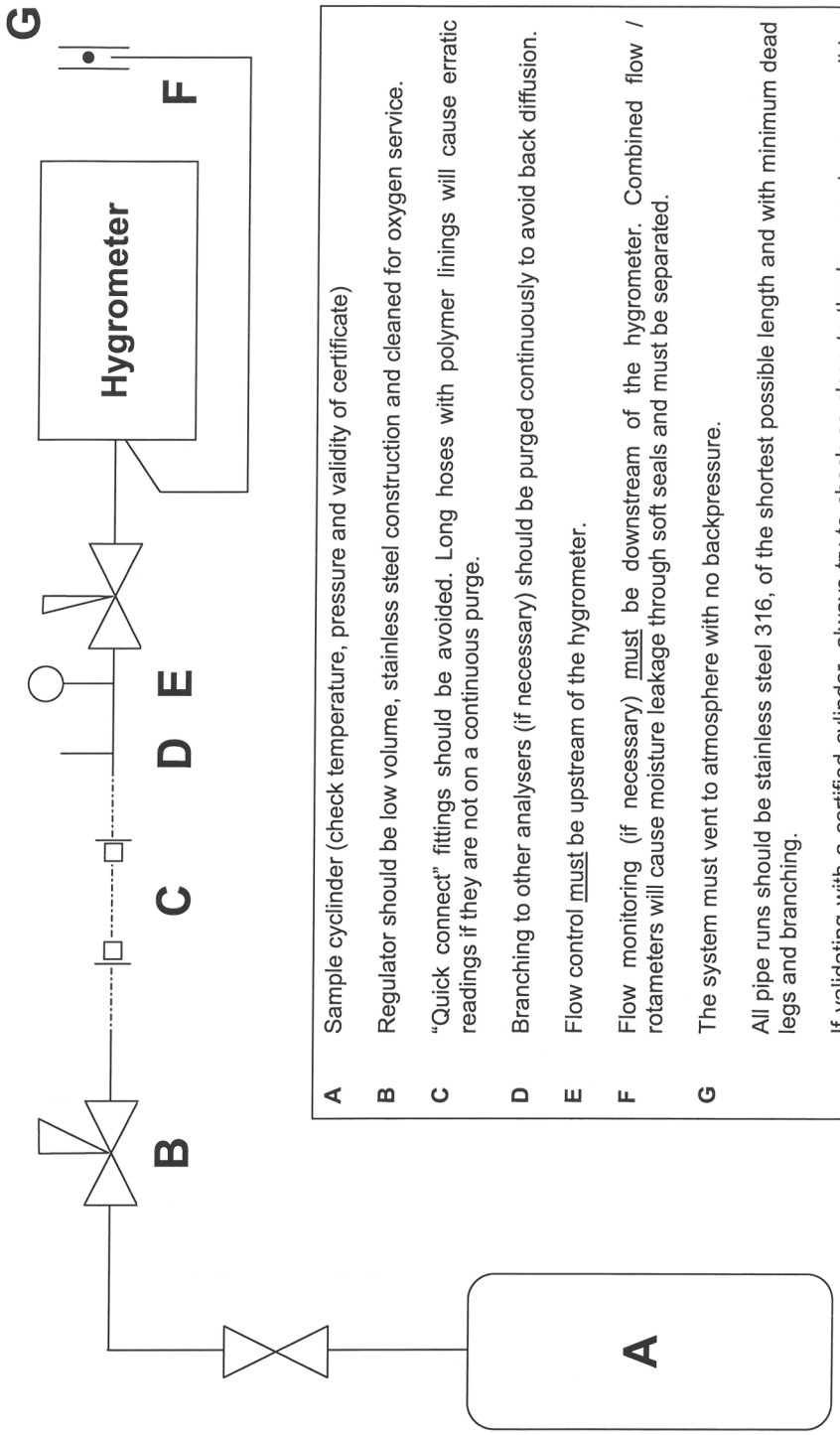
Troubleshooting Guide – Typical Industrial Gas Application



A Sample cylinder (check temperature, pressure and validity of certificate)

B Regulator should be low volume, stainless steel construction and cleaned for oxygen service.

C "Quick connect" fittings should be avoided. Long hoses with polymer linings will cause erratic readings if they are not on a continuous purge.

D Branching to other analysers (if necessary) should be purged continuously to avoid back diffusion.

E Flow control must be upstream of the hygrometer.

F Flow monitoring (if necessary) must be downstream of the hygrometer. Combined flow / rotameters will cause moisture leakage through soft seals and must be separated.

G The system must vent to atmosphere with no backpressure.

All pipe runs should be stainless steel 316, of the shortest possible length and with minimum dead legs and branching.

If validating with a certified cylinder, always try to check as close to the hygrometer as possible. Avoid "quick connect" fittings and hose couplings, which will invariably lead to long settling times.