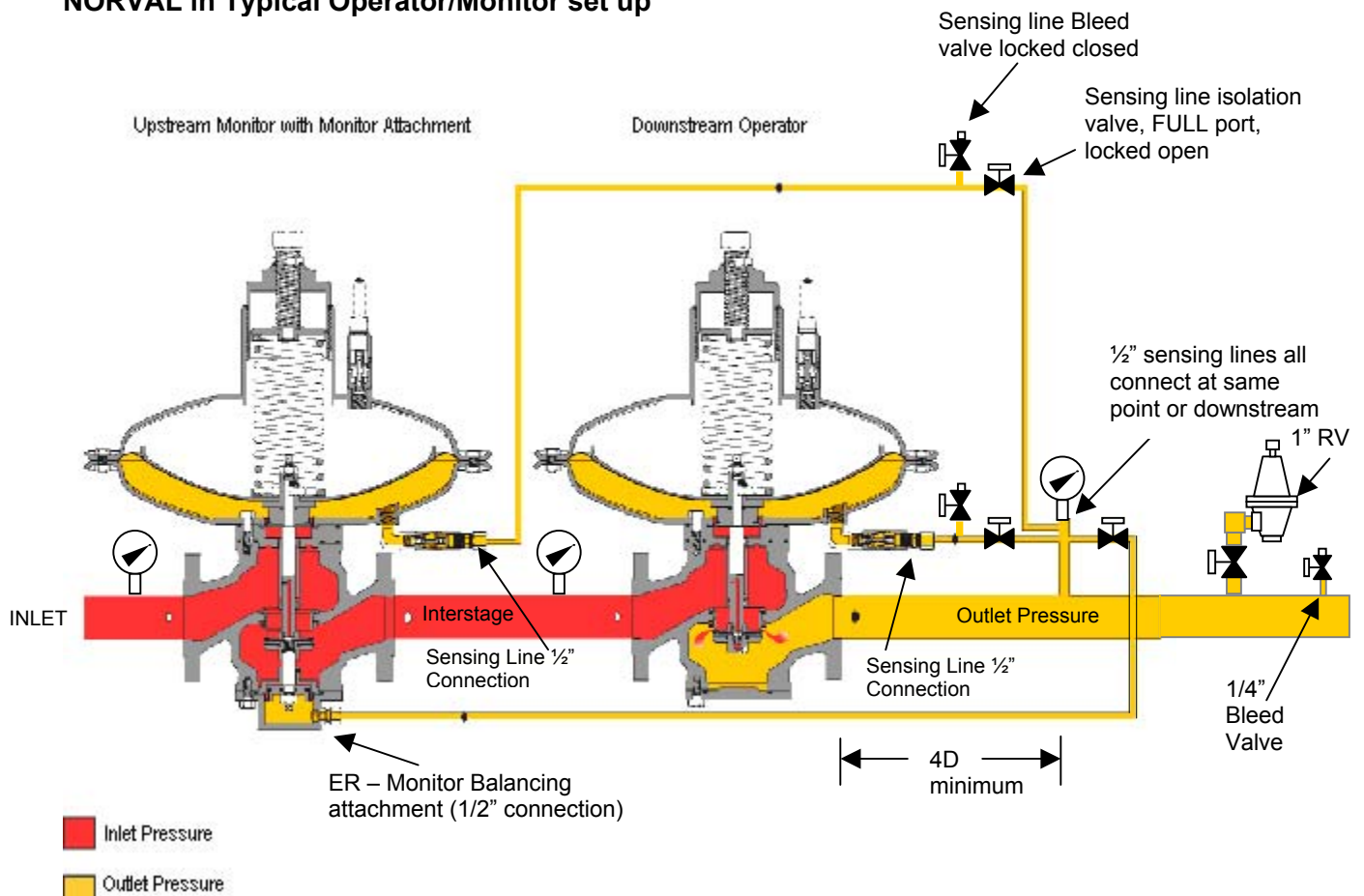


## NORVAL in Typical Operator/Monitor set up



### Installation Considerations:

1. Pressure gauges should be installed on inlet, between the regulators, and on the outlet
2. A Token Relief Valve can be installed on the outlet side of the set to indicate monitor operation or full failure (depending on set point)
3. Sensing lines should be connected in straight unobstructed section of pipe at least 4 pipe diameters downstream from the regulators, with an additional 2 pipe diameters of straight pipe after the sensing line connections. If the pipe flares up after the regulators, then sensing lines should be installed in this larger diameter pipe.
4. Isolation Shutoff valves can be installed on the sensing lines but they must be FULL port and locked in the open position during normal operation to insure they are never accidentally closed – this can cause regulator to go wide open.
5. Bleed valves can be added to the sensing lines to facilitate maintenance. They should be locked in the closed position and plugged. Bleed valves on sensing lines should only be used to remove pressure from the line – not to adjust set pressure.
6. A Primary Bleed valve can be installed downstream of the set. This can be used to maintain flow while making adjustments.

**Note:** all adjustments should be made with gas flowing (either downstream equipment running or using the main bleed valve. If using a small bleed valve keep in mind that it may take some time to relieve the line pack)