

ANSWER KEY - LABORATORY EXERCISE 6
PRESSURE CONTROL LOOP CHARACTERISTICS

3. EXERCISE – GAS PRESSURE REDUCING STATION

... Does the pressure go up or down?	Up
... large change in controller output?	No
... tend to cause the valve to close?	Yes
... tend to cause the valve to open?	Yes
... controller output approximately 35%	PR is about = to SP
... controller output above 35%	PV is below SP
... controller output below 35%	PV is above SP
... significance of 35%.	

The Manual Reset is 35%. When PV and SP are equal, the controller output is the value set for Manual Reset.

4. EXERCISE – GAS SEPARATOR

... set point at 48 psig. Satisfactory response?	Yes
... still satisfactory response?	Yes
... mirror image of output trace?	Yes
... did you observe and understand ...?	We certainly hope so.