

ANSWER KEY - LABORATORY EXERCISE 14
CHARACTERISTICS OF RATIO CONTROL

2. CONTROLLER SET UP

Present value of PV, engineering units	280 P/hr
Present value of PV, percent	28 %
Present value of "wild" flow, engineering units	130 GPM
Present value of "wild" flow, percent	65%
Ratio, PV(%) to "Wild" Flow (%)	0.431
Calculated ratio:	0.431
Set ratio (R-set)	1.000
If you change to Ratio mode, where will SP go?	650 P/hr
Try it. What is the SP?	650 P/hr
Enter a set ratio of 0.5	
Present value of PV, engineering units	325 P/hr
Present value of PV, percent	32.5%
Present value of "wild" variable, engineering units	130 GPM
Present value of "wild" variable, percent	65%
Ratio, PV(%) to "wild" flow (%)	0.5
Did the controlled flow (PV) follow at the set ratio?	Yes
Does the controlled flow (PV) follow at the set ratio?	Yes