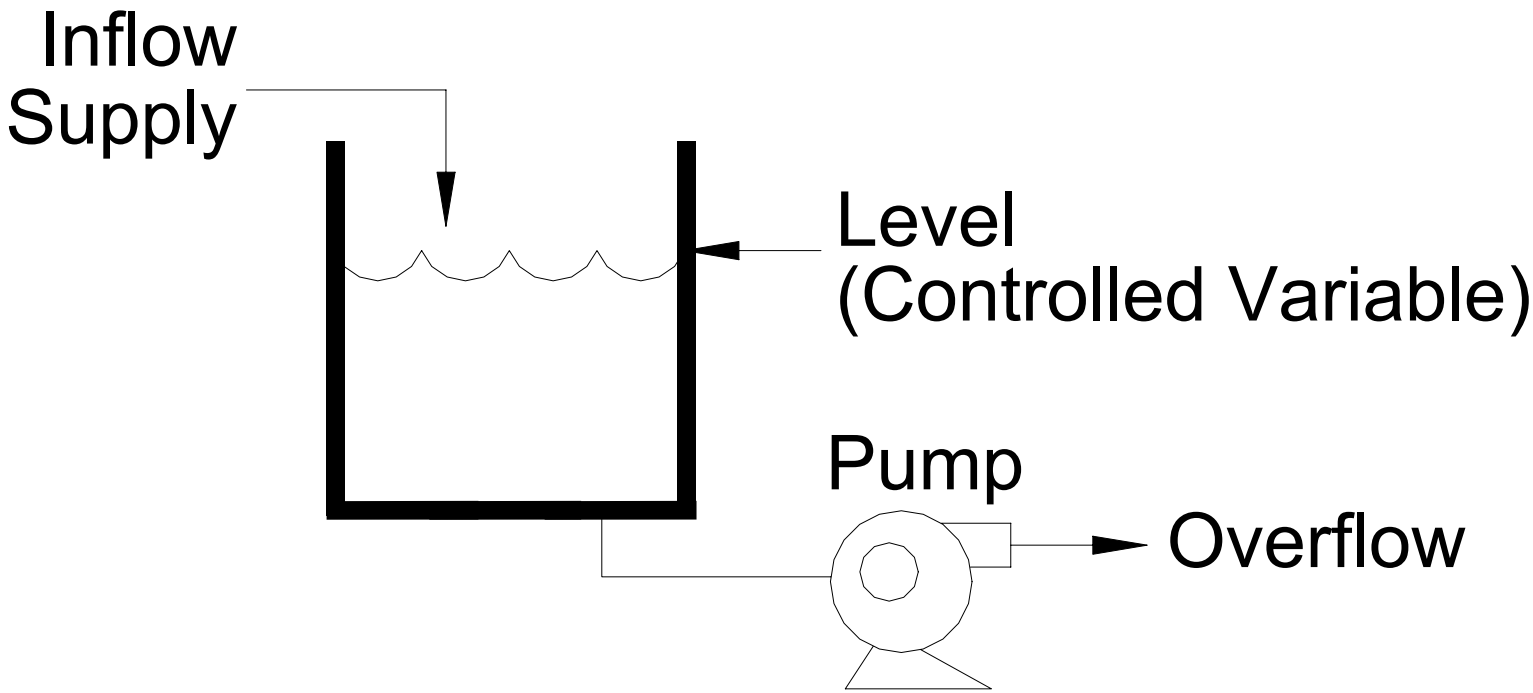
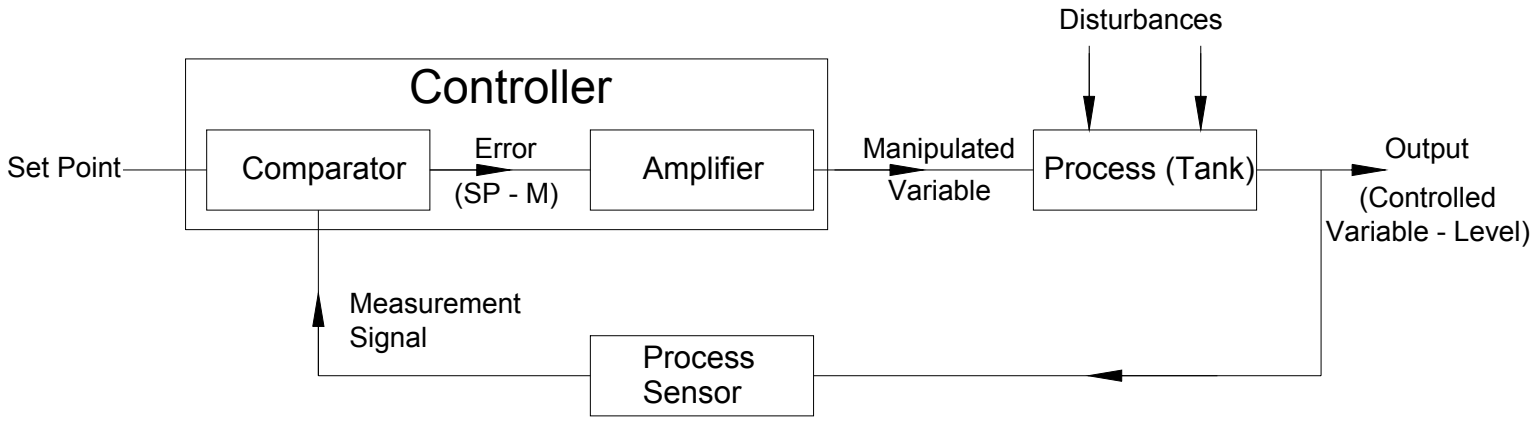
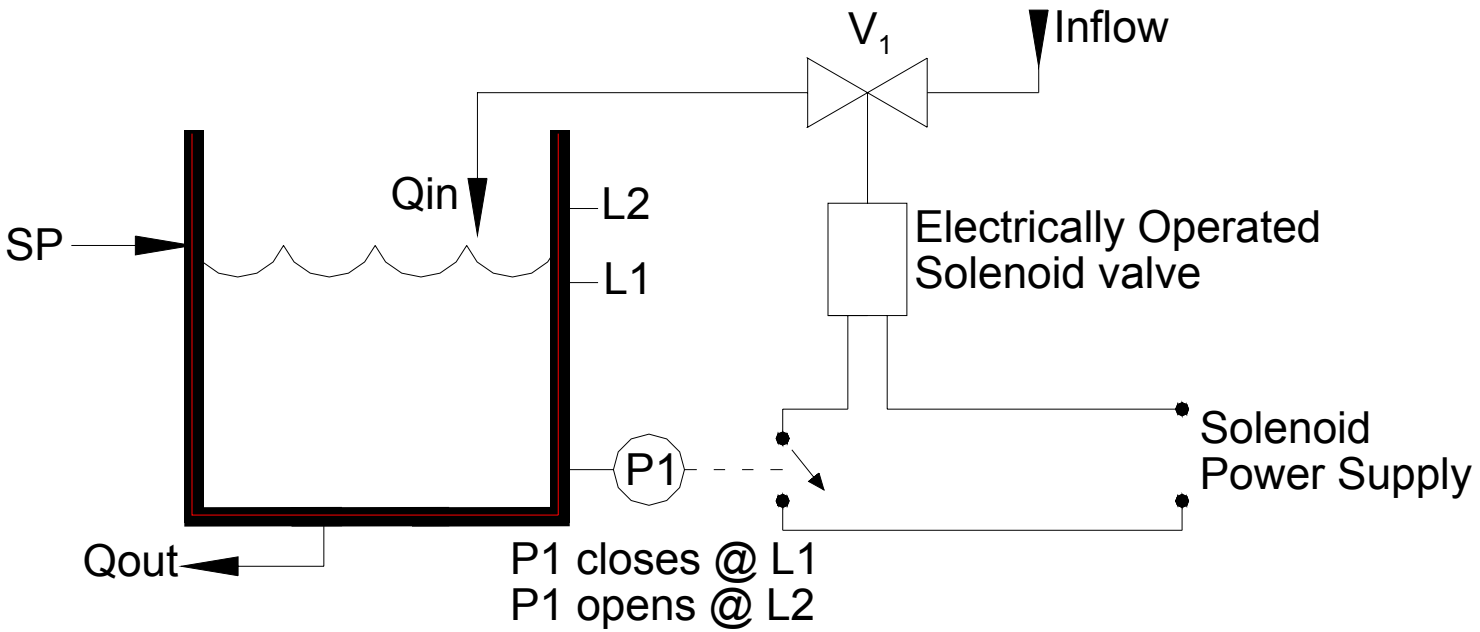
M1 Figure 1



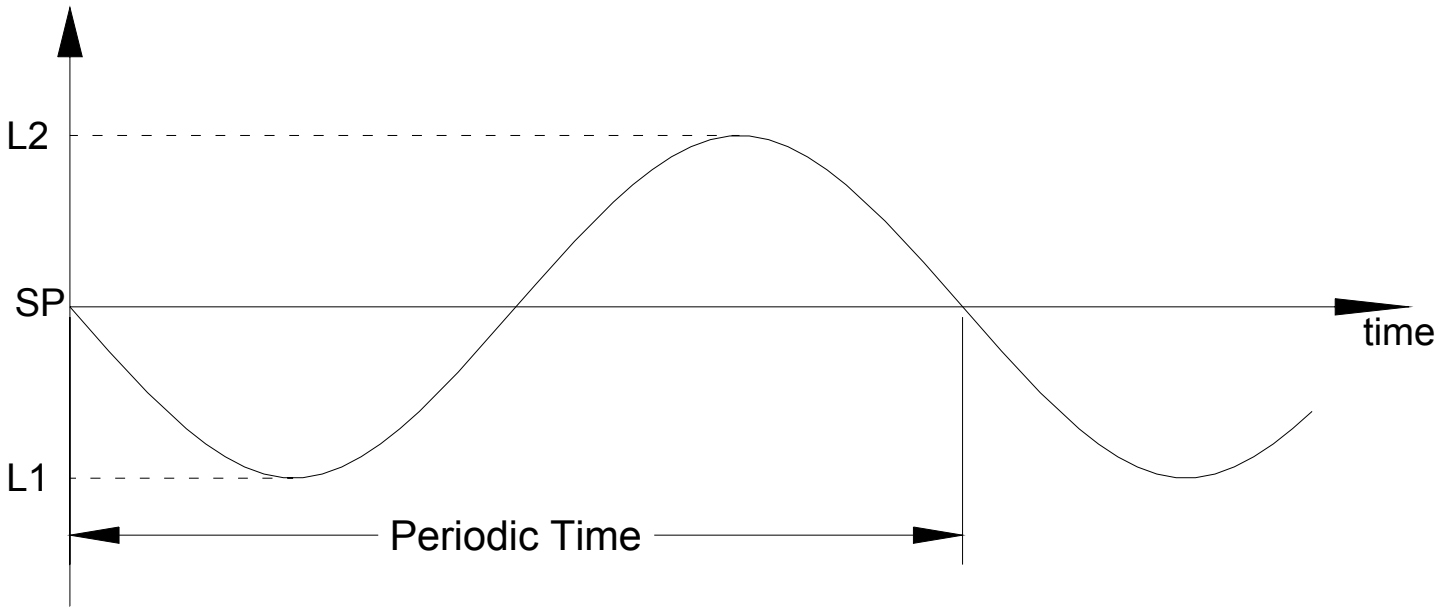
M1 Figure 2: Typical Control Loop



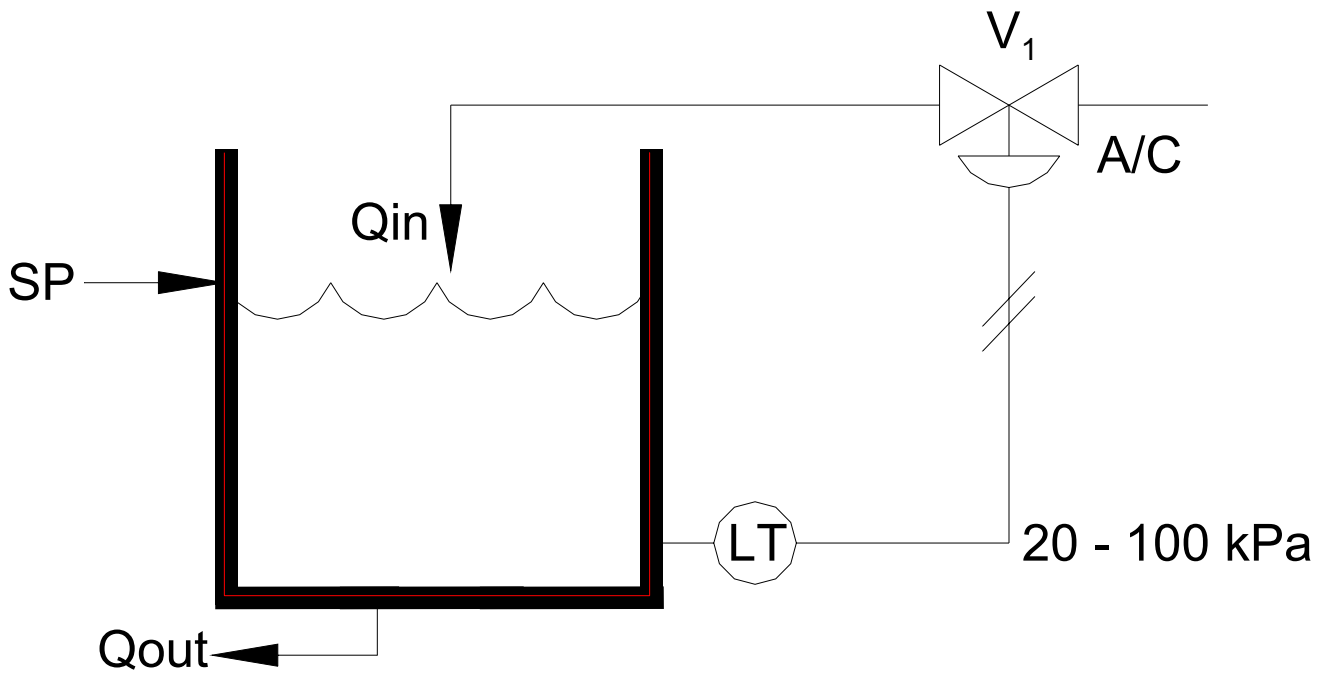
M2 Figure 1: Typical ON/OFF Control System



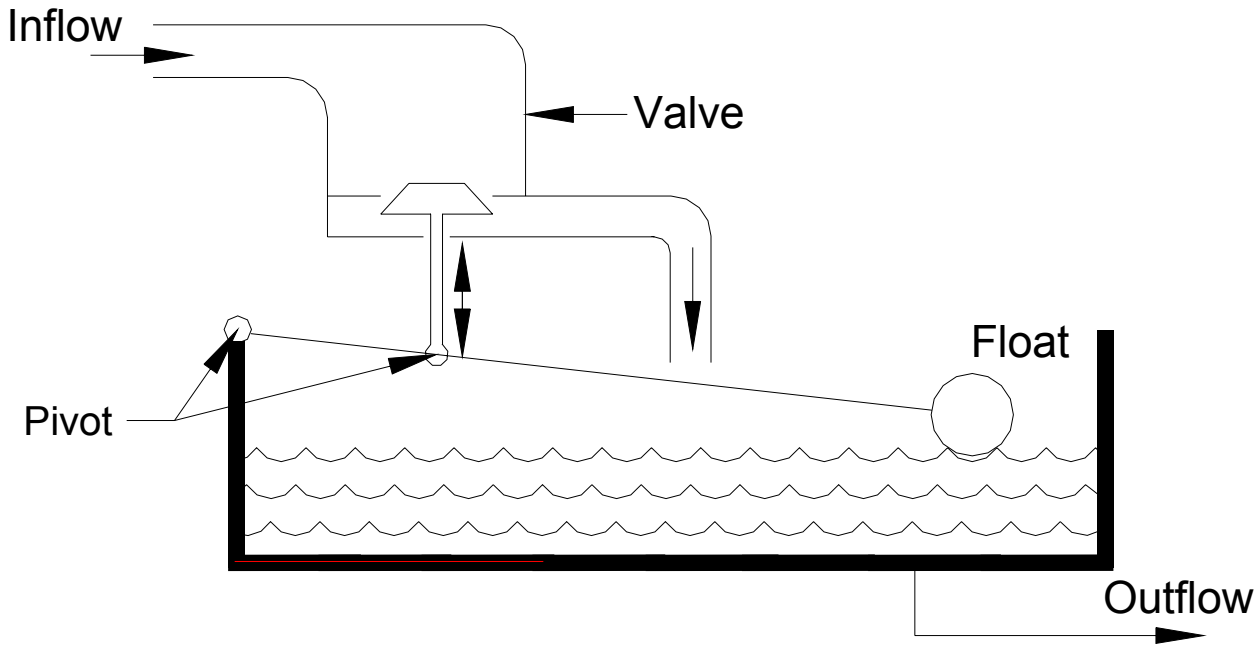
M2 Figure 2: Typical ON/OFF Response



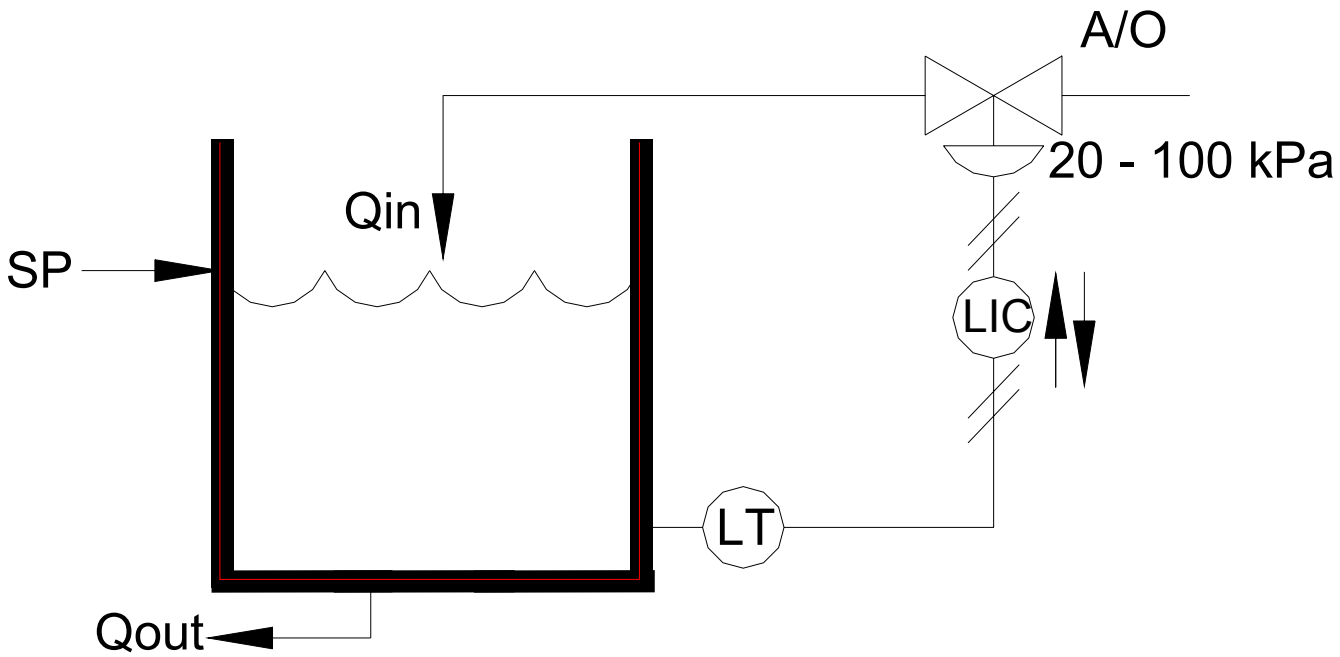
M3 Figure 1: Level Control of Open Tank



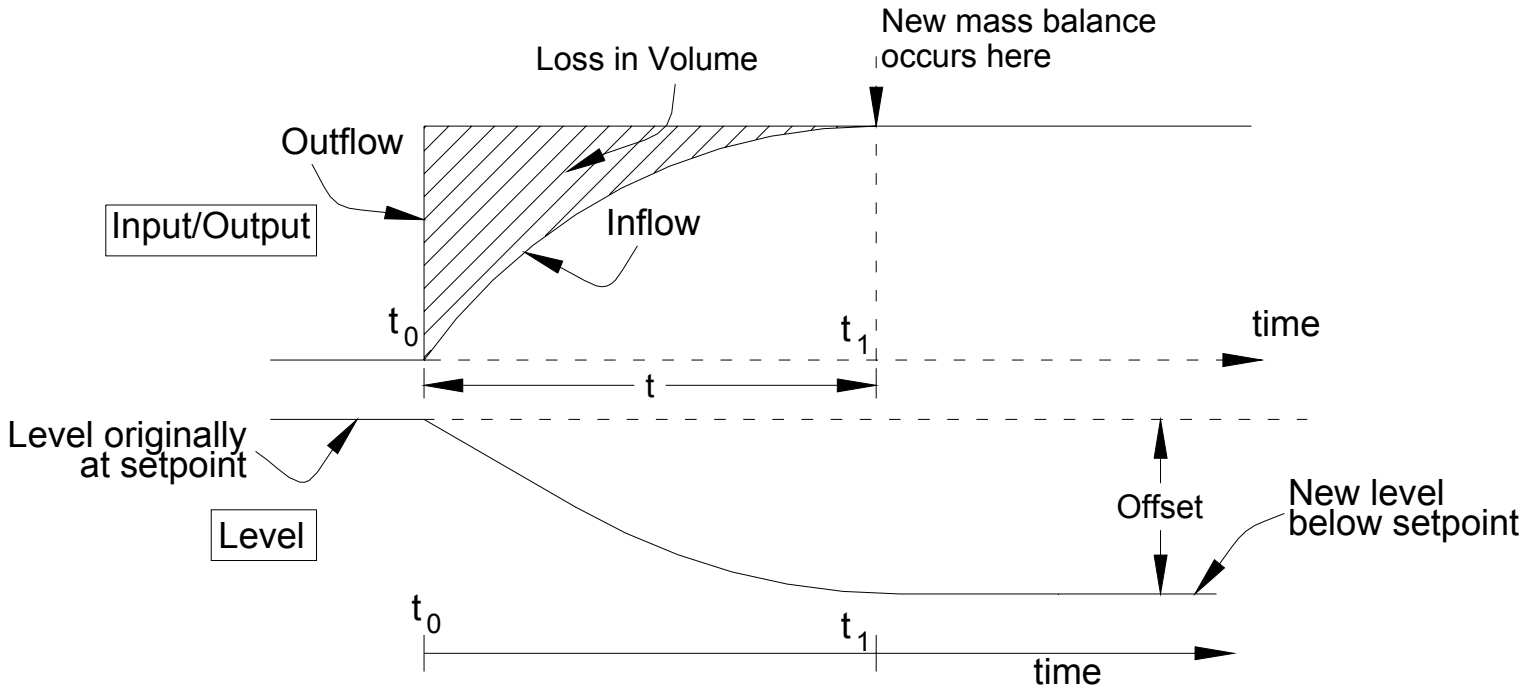
M3 Figure 2: Simple Proportional System



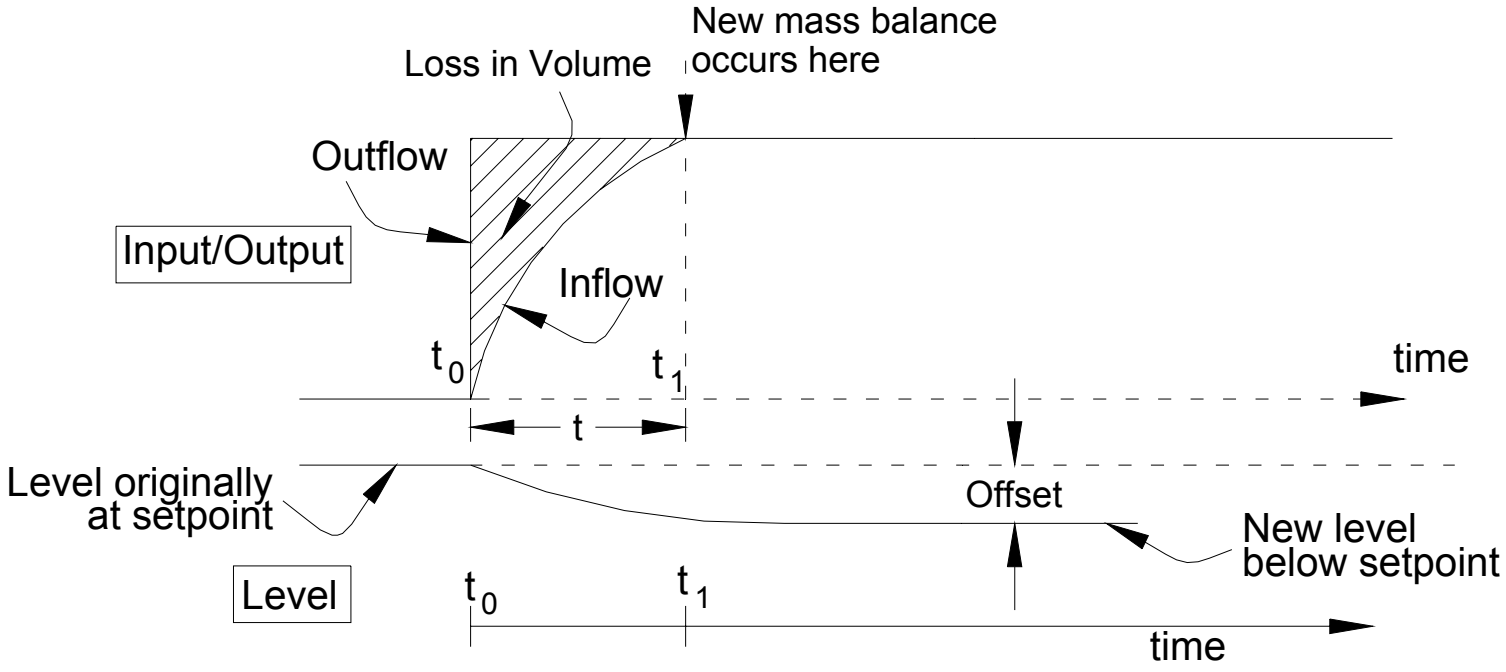
M4 Figure 1: Open Tank Control



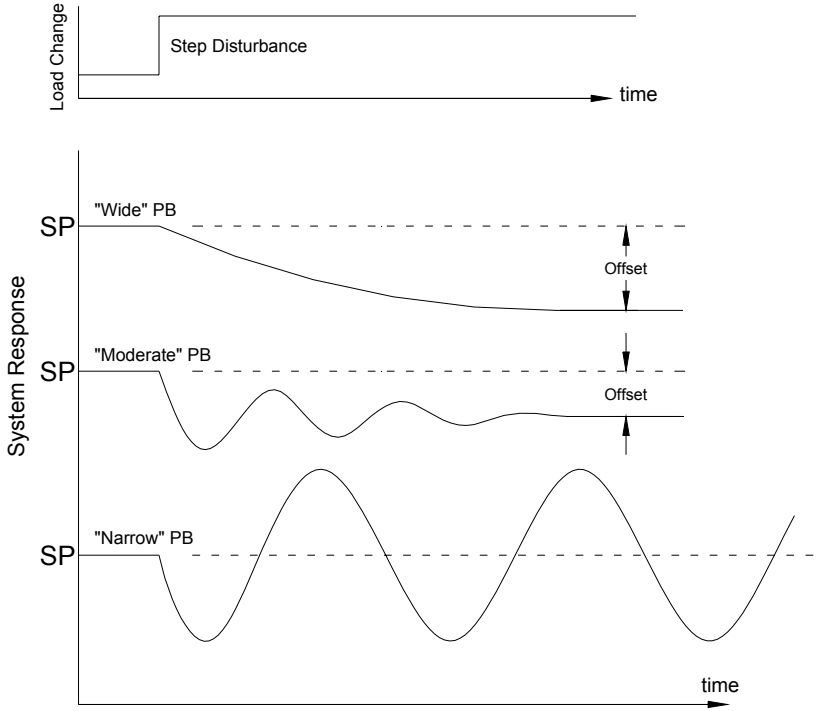
M4 Figure 2: Proportional Control Response Curve



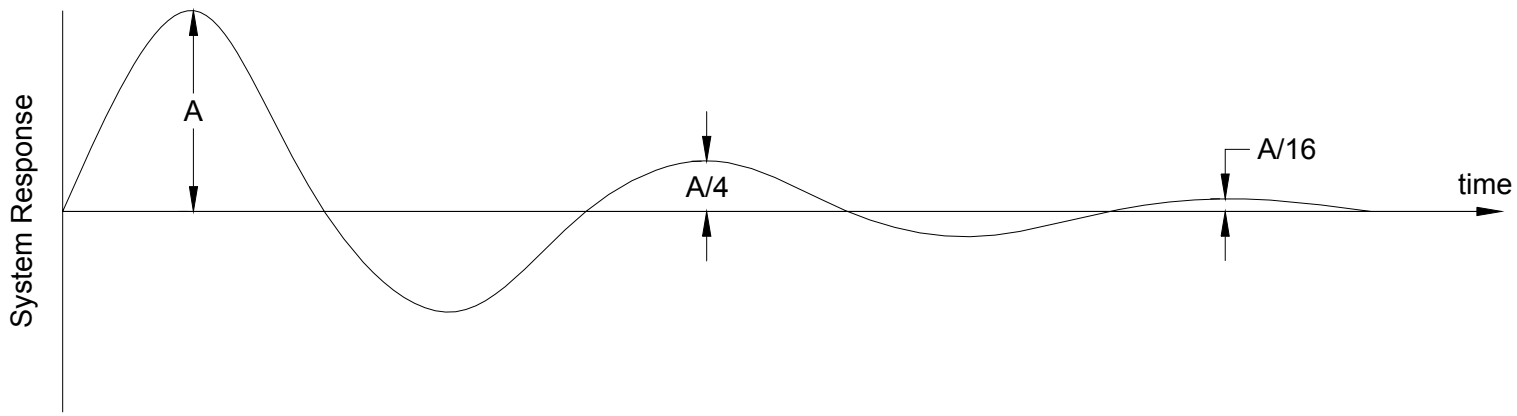
M4 Figure 3: Proportional Response with Narrower PB



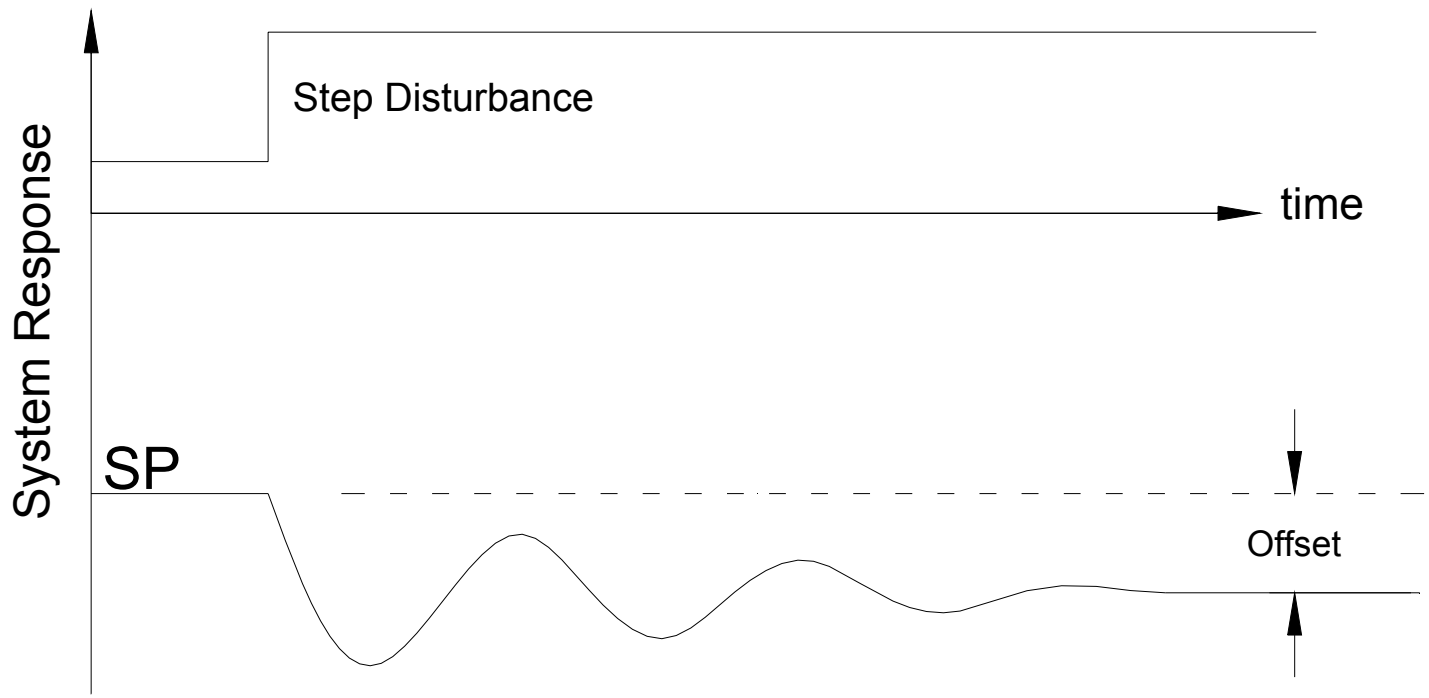
M4 Figure 4: Response Versus PB, Proportional Control Only



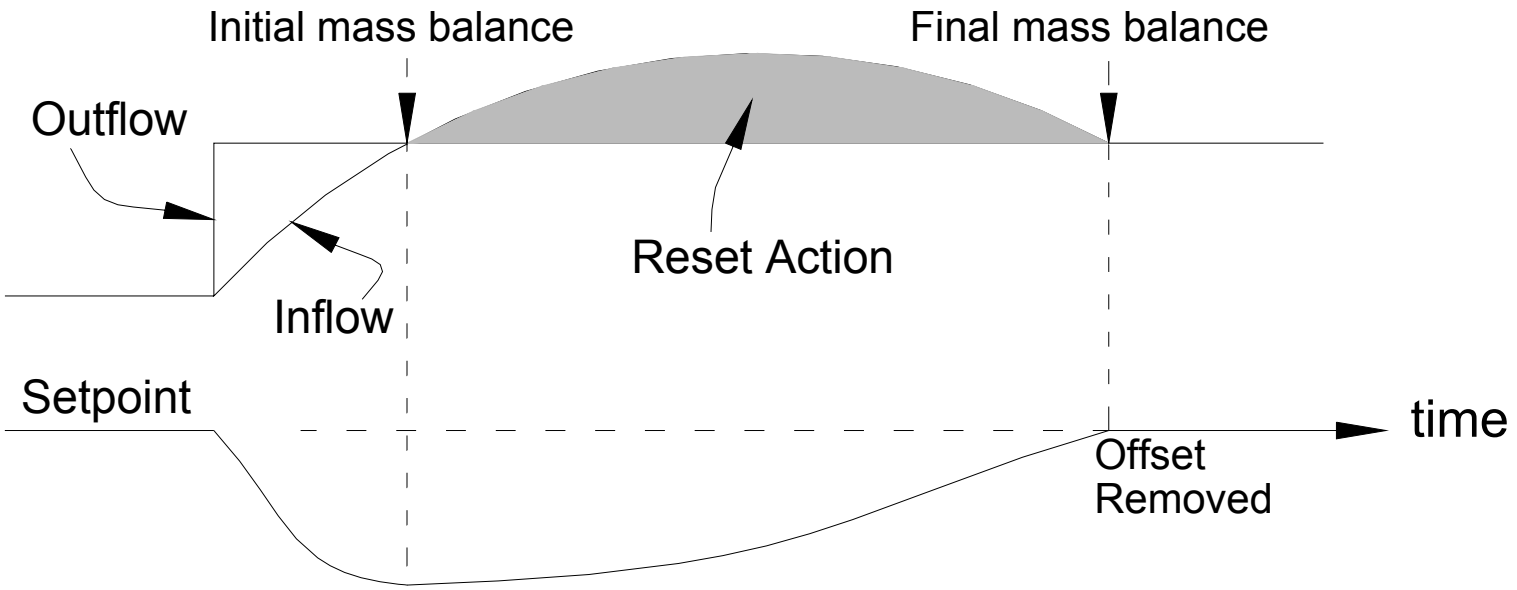
M4 Figure 5: ¼ Decay Response Curve



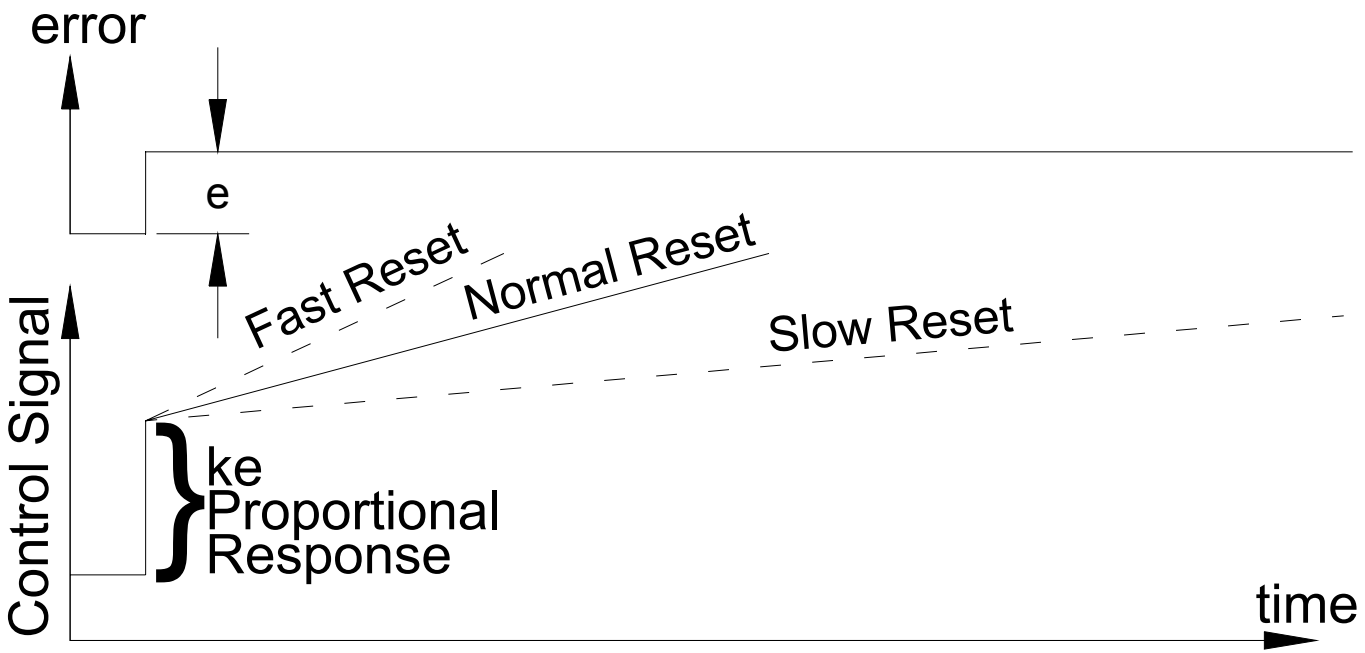
M5 Figure 1: Response Curve: Proportional Control Only



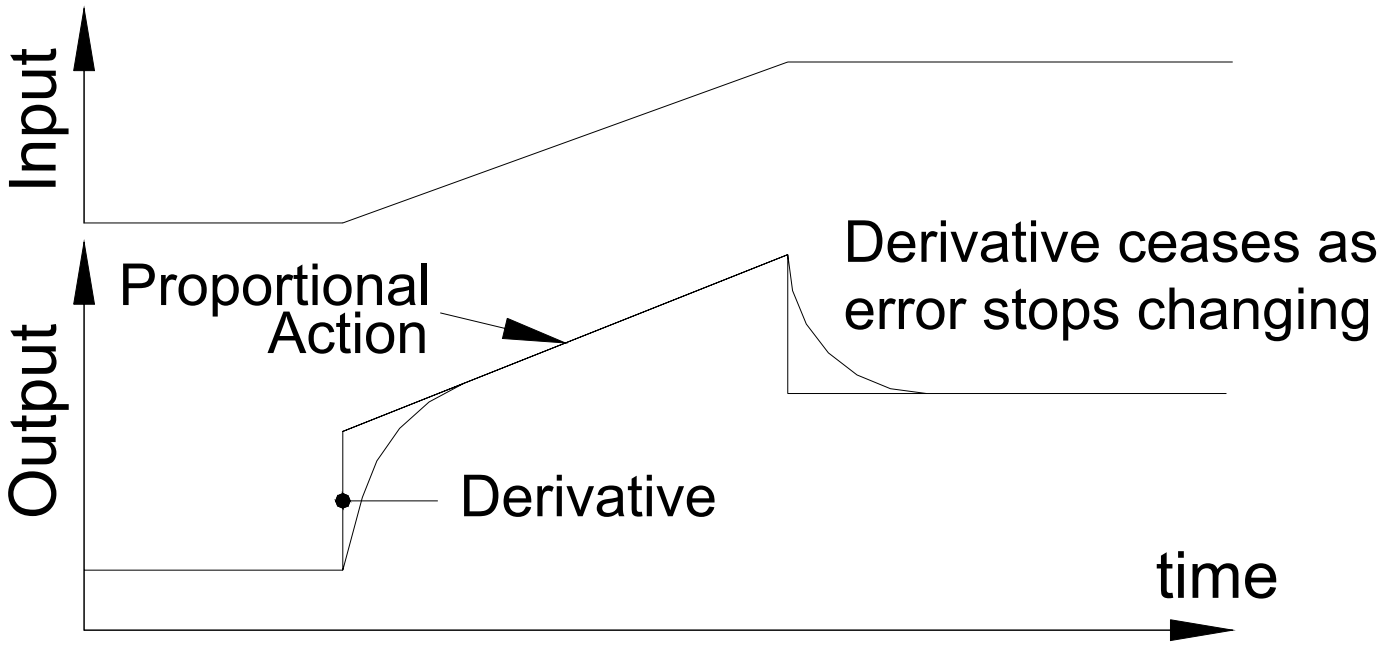
M5 Figure 2: Additional Control Signal Restores Process to Setpoint



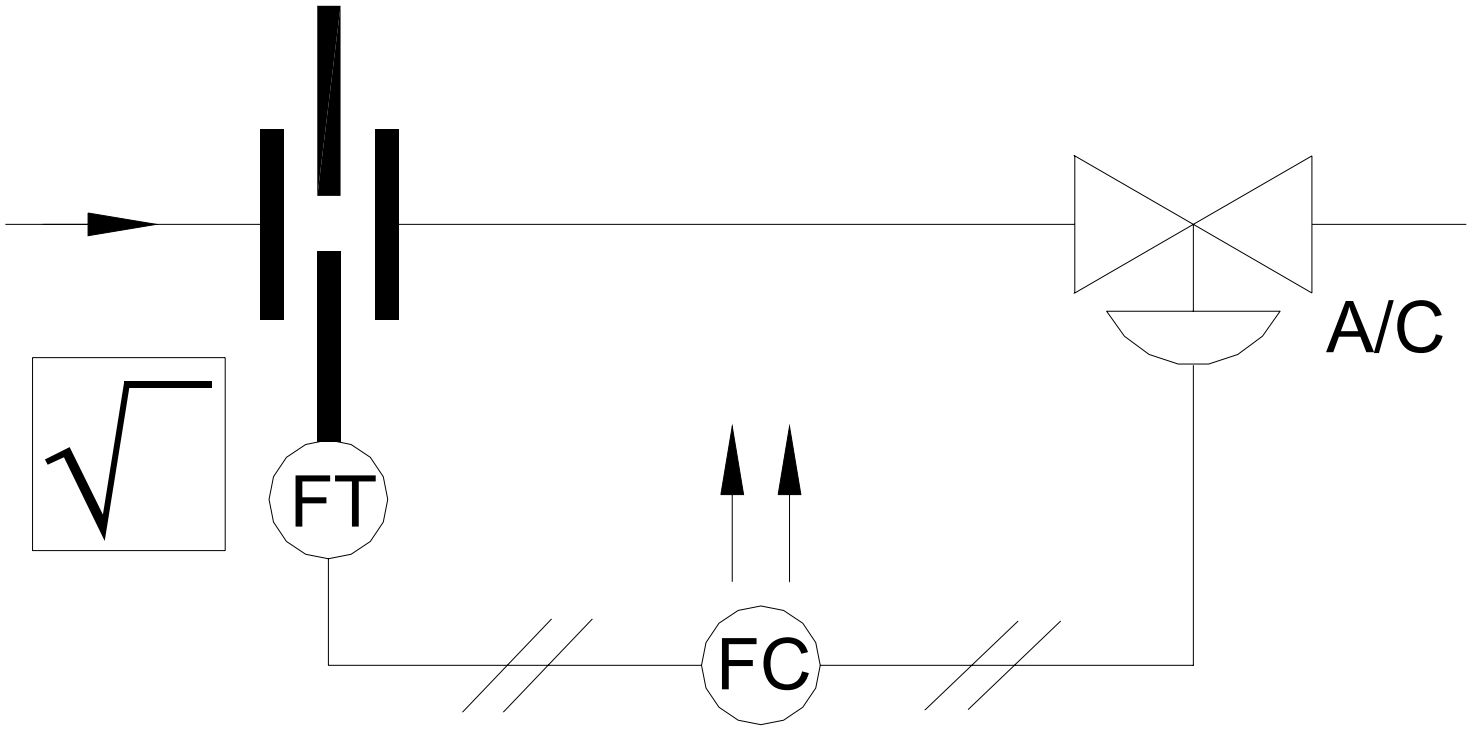
M5 Figure 3: Proportional Plus Reset, Open Loop Response



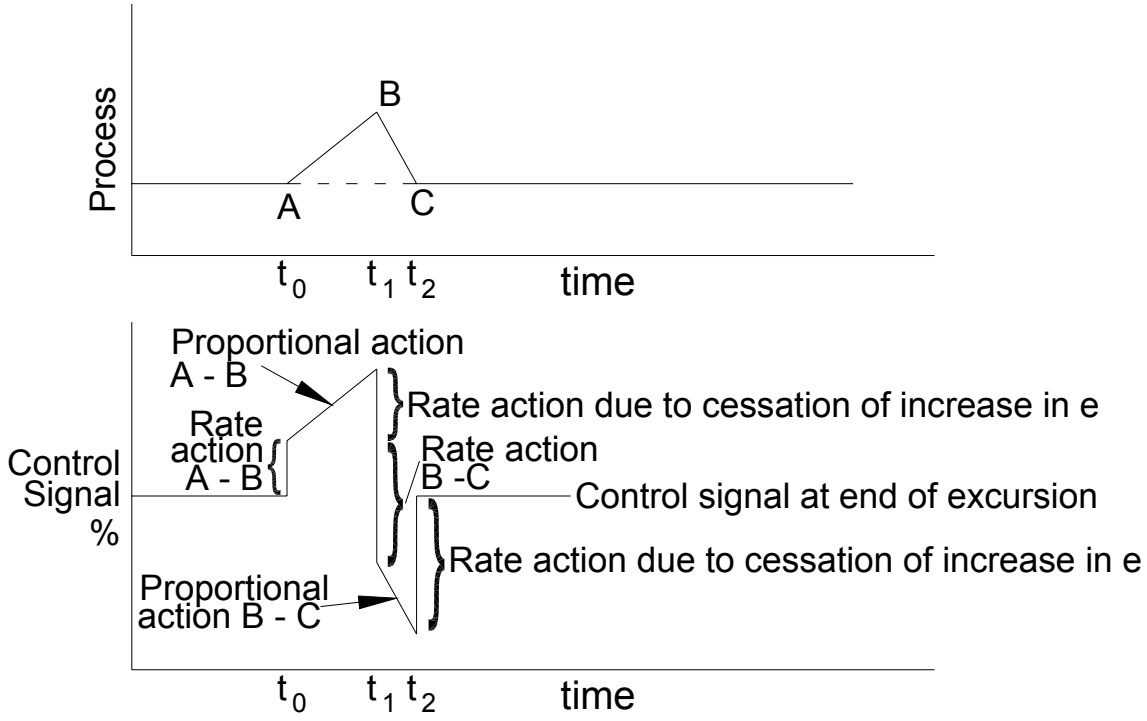
M6 Figure 1: Proportional and Derivative – Open Loop Pressure



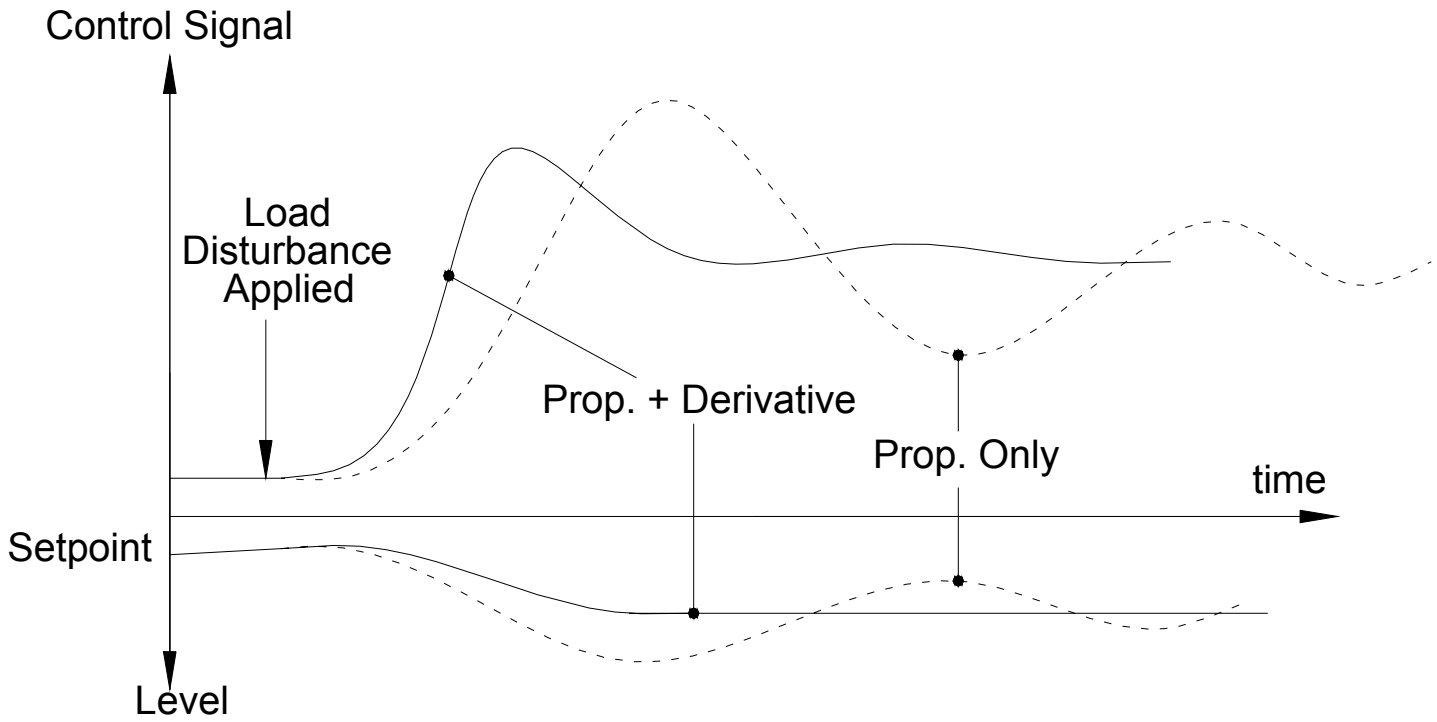
M6 Figure 2: Simple Flow Control System



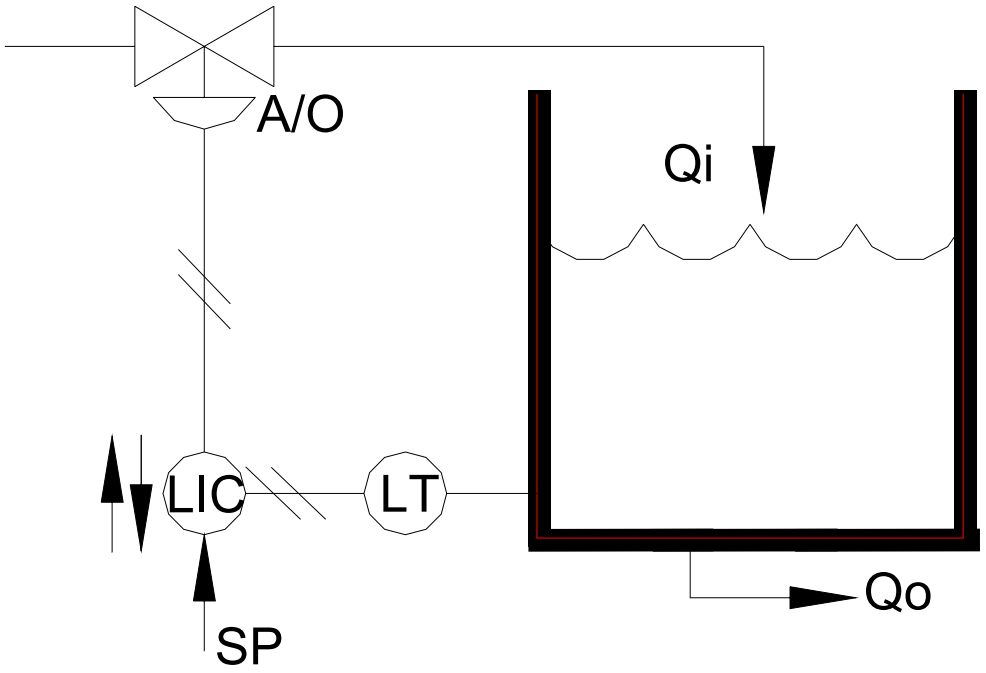
M6 Figure 3: The open Loop Response of Proportional Plus Derivative (PD) Action to Rapidly Changing Error Signals



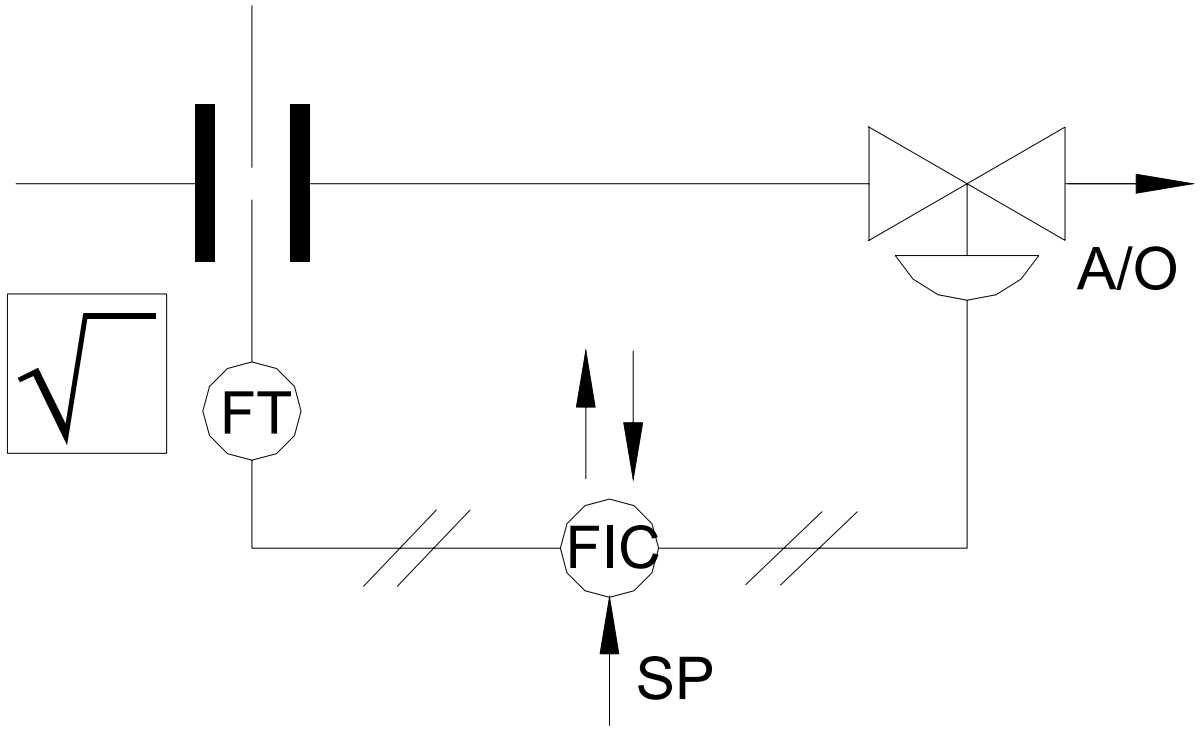
M6 Figure 4: Large System Under Proportional and Proportional Plus Derivative Control



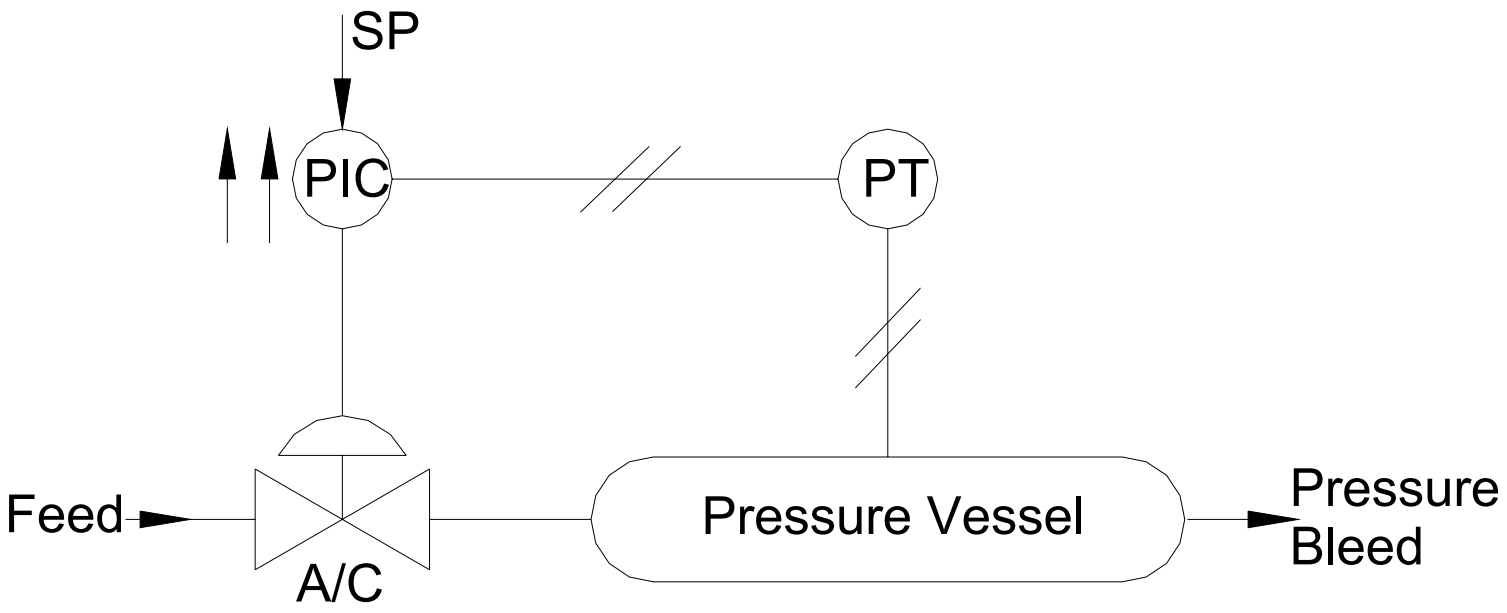
M8 Figure 1: Open Tank Level Control With Valve In Inflow



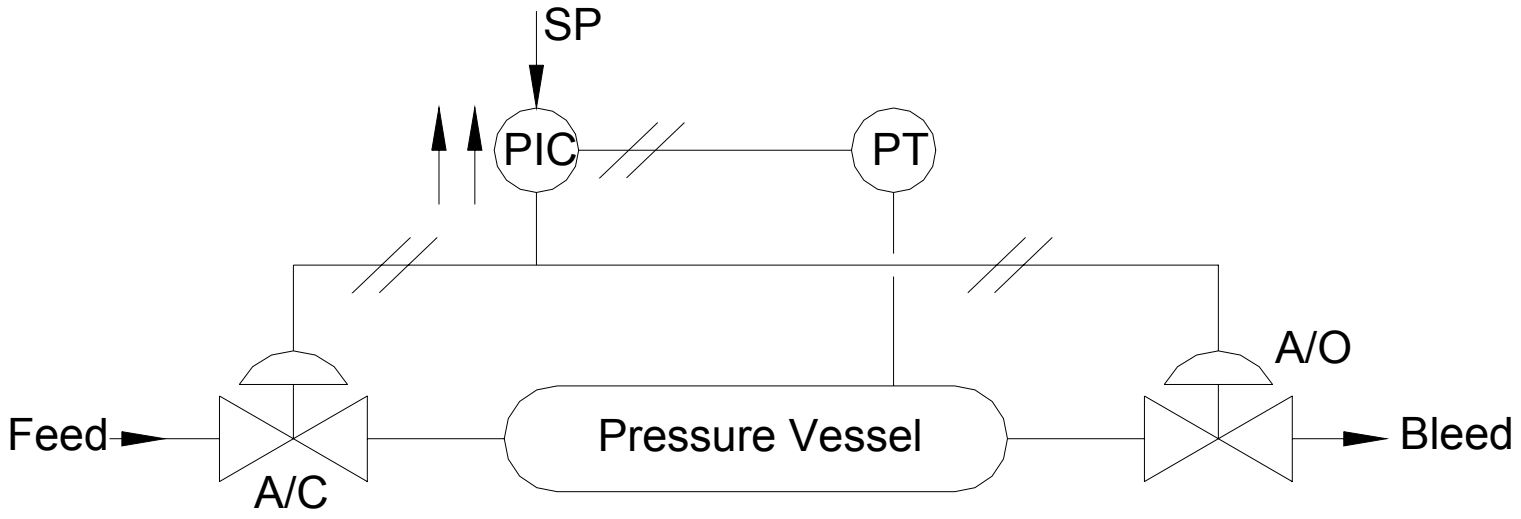
M8 Figure 2: Typical Flow Control Loop



M8 Figure 3: Pressure Control – Constant Bleed



M8 Figure 4: Split Ranged Feed and Bleed Pressure Control



M8 Figure 5: Representative Hot Bleed/Cold Service Water Heat Exchanger