

Figure 7-36a Ramping Response of Actuator for a Large Step Change in Signal

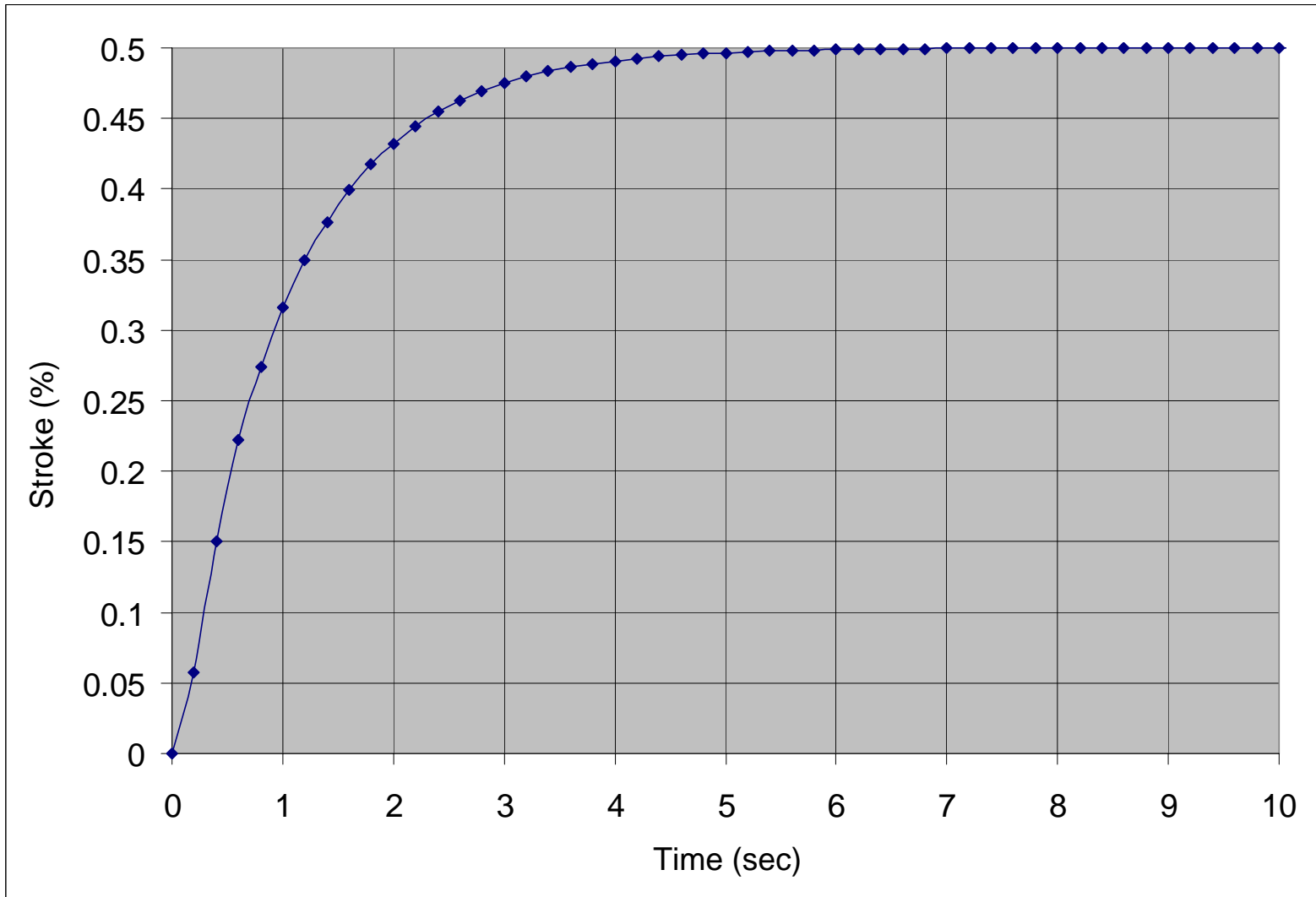


Figure 7-36b Exponential Response of Actuator for a Small Step Change in Signal

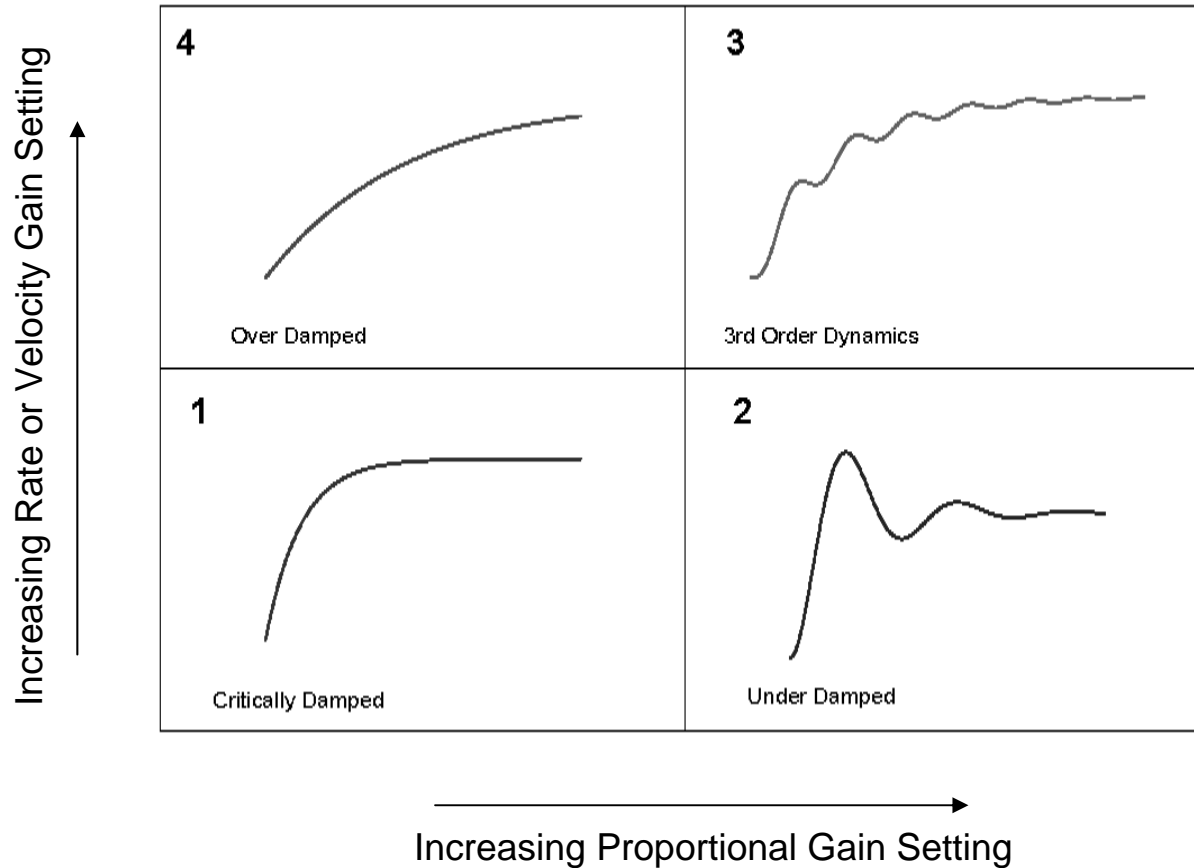


Figure 7-37. Valve Response to Digital Valve Controller Tuning Settings

Step Response, T_{86} , Maximum
Four Valves

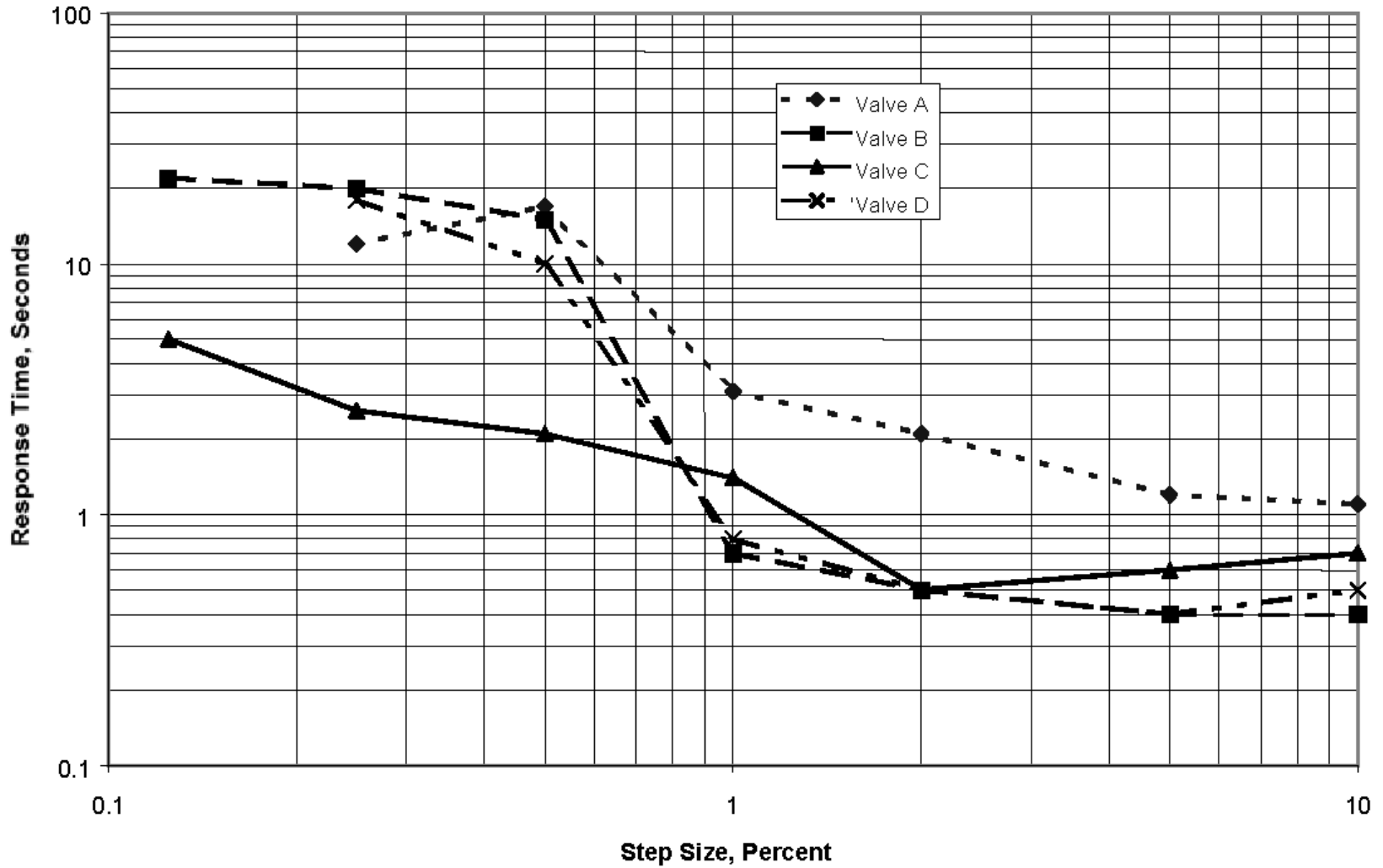


Figure 7-38. Response Time for Small Valves [42]

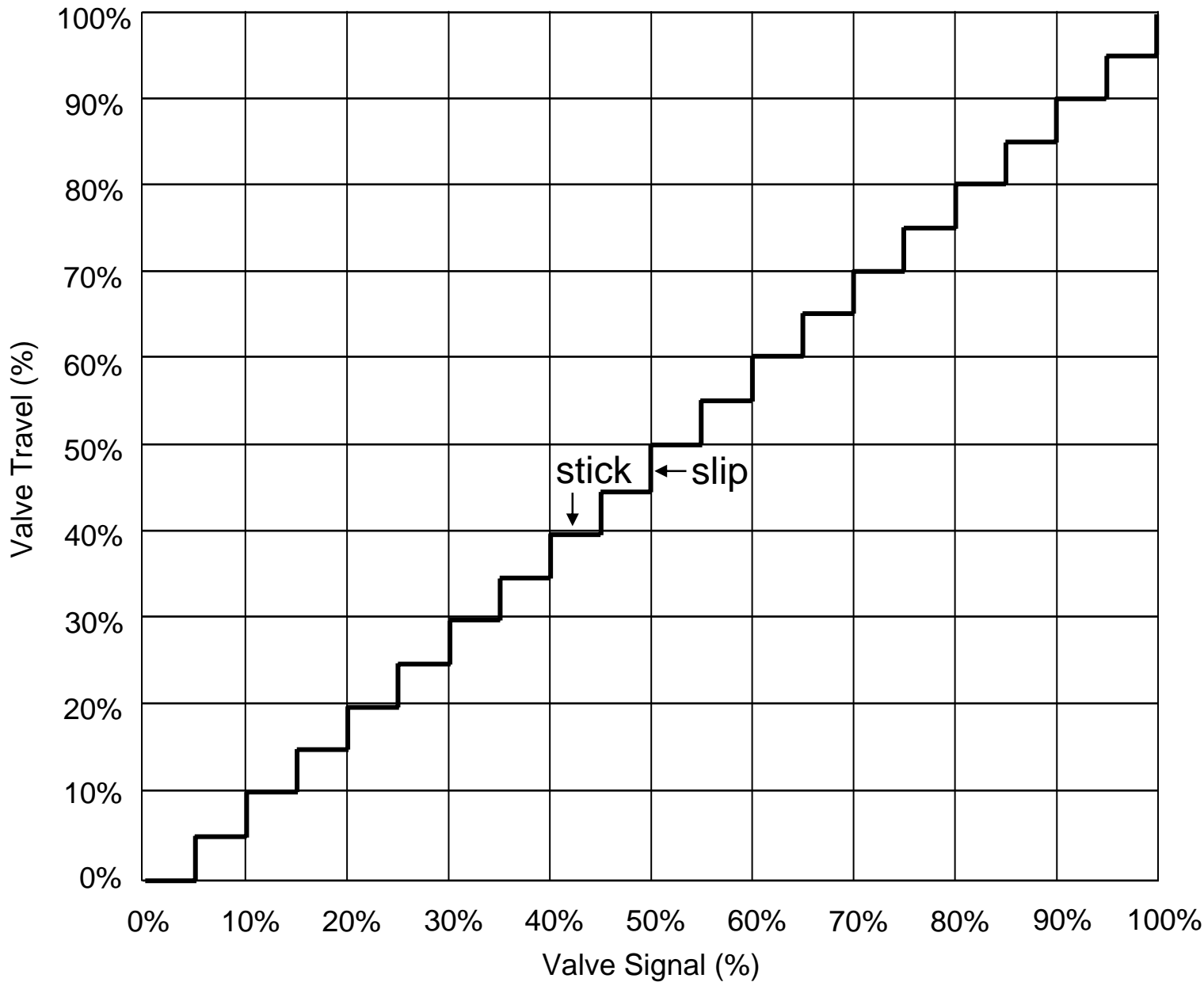


Figure 7-39. Resolution Limit from Stick-Slip
(zero hysteresis and zero backlash)

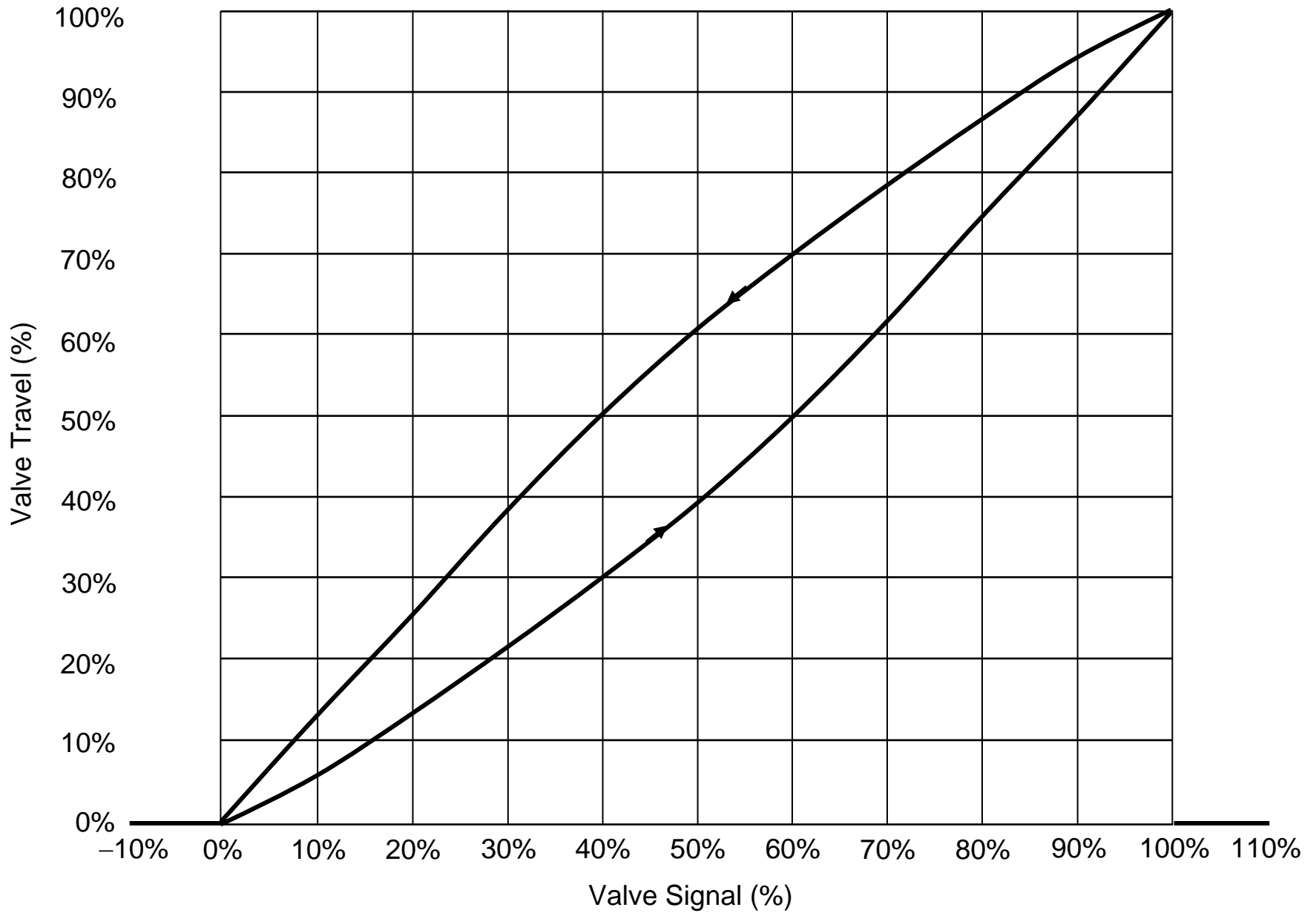


Figure 7-40a. Hysteresis from Energy Dissipation in Actuator
(zero backlash and zero stick-slip)

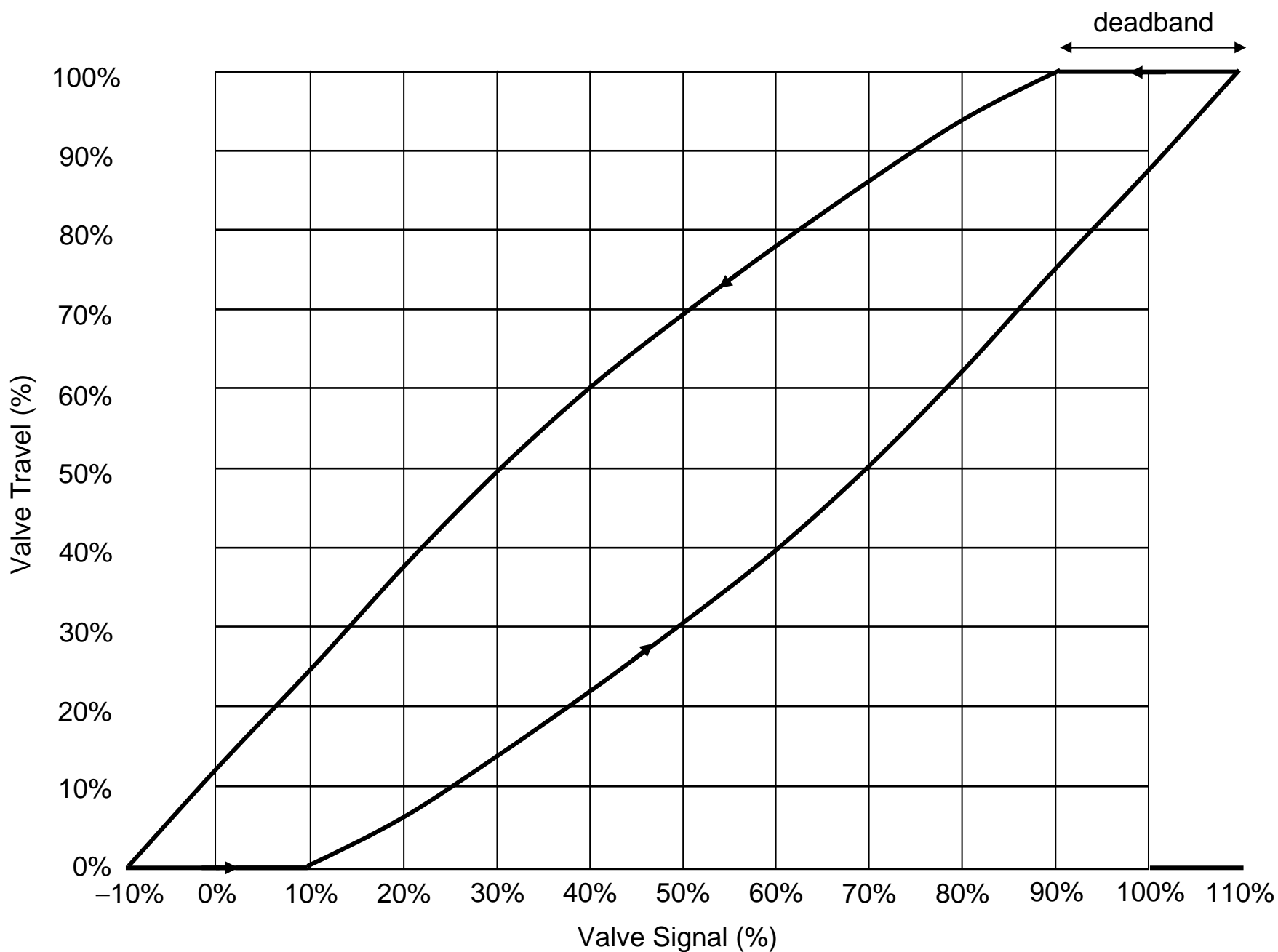


Figure 7-40b. Deadband from Backlash and Hysteresis from Energy Dissipation (zero stick-slip)