

#### Equation 7.4

$$p_1 = p_2 \times \left(\frac{q_1}{q_2}\right)^2$$

where

$p_1$  = system pressure required at flow rate  $q_1$

$p_2$  = system pressure required at flow rate  $q_2$

$q_1$  = system flow rate at condition 1

$q_2$  = system flow rate at condition 2