$$\frac{1}{Q_{1}(s)} = \frac{R}{R(s+1)}$$

$$\frac{Q_0}{Q_i} = \frac{Q_0}{H} \cdot \frac{H}{Q_i}$$

$$\frac{Q_{O(S)}}{Q_{C(S)}} = \frac{1}{R} \cdot \frac{R}{R(S+1)} = \frac{1}{R(S+1)}$$

Poles of 
$$\frac{H}{Q}$$
: RCs +1 =0
$$S = \frac{-1}{CR} = -0$$

$$1 = \frac{1}{C}$$

$$\lim_{s \to 0} \left[ s + cs \right] = \lim_{s \to 0} \left[ \left( s \right) \left( \frac{R}{Rcs + 1} \right) \left( \frac{1}{s} \right) \right] = \lim_{s \to 0} \left[ \frac{R}{Rcs + 1} \right] = R$$