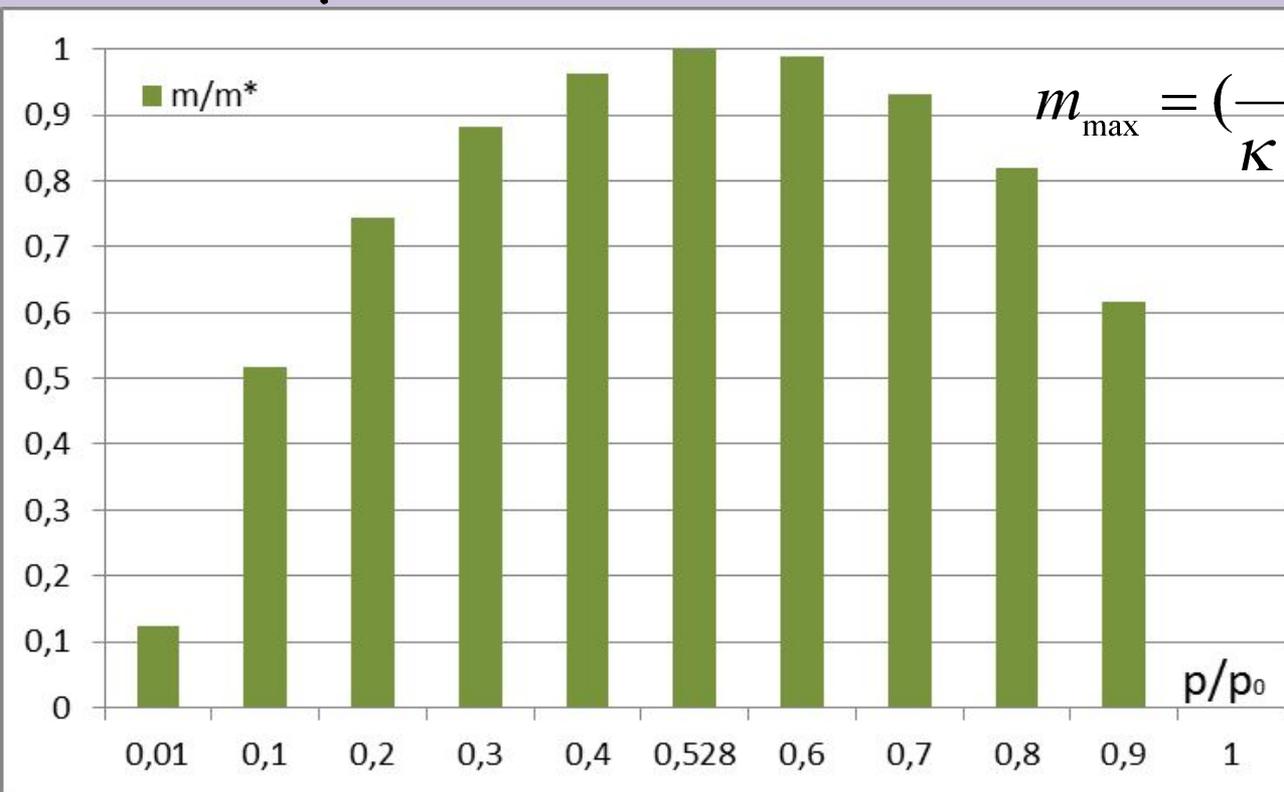


# Истечение сжимаемой среды из сопла.

$$\rho = \rho_0 \left( \frac{p}{p_0} \right)^{\frac{\kappa+1}{2(\kappa-1)}} \quad M^2 = \frac{V^*}{\Omega} \left( \frac{p}{p_0} \right)^{\frac{\kappa-1}{2(\kappa-1)}} \quad p = p_0 \left( 1 + \frac{\kappa-1}{2} M_1^2 \right)^{\frac{\kappa}{\kappa-1}}$$

$$\frac{m}{m^*} = \sqrt{\frac{2}{\kappa-1} \left( \frac{\kappa+1}{2} \right)^{\frac{\kappa+1}{\kappa-1}} \left( \frac{p}{p_0} \right)^{\frac{2}{\kappa}} \left( 1 - \left( \frac{p}{p_0} \right)^{\frac{\kappa-1}{\kappa}} \right)}$$



$$m_{\max} = \left( \frac{2}{\kappa+1} \right)^{\frac{\kappa+1}{2(\kappa-1)}} \sqrt{\kappa \rho_0 p_0 \Omega}$$

$$Q = 0,76 \Omega \sqrt{\frac{(p_0 - p)p}{T_0}}$$

$$Q_{\max} = 0,38 \Omega p_0 / \sqrt{T_0}$$