$$v_{c}(t) = \begin{bmatrix} \sigma_{c} & 12 \,\mu \, \sigma^{1}; & 0 < \tau < \tau = 1 \,\sigma \\ 12 \,\mu \, \sigma^{1} - (3 \,\mu \, \sigma^{3})(\tau - (1 \,\sigma))^{2}; & 1 \,\sigma < \tau < \tau \end{bmatrix}$$