Friction Loss for the 3” Viking Model J-1 Alarm Check Valve is equivalent to 10 feet of 3” Schedule 40 (id = 3.068”) Pipe (C = 120).

To calculate friction loss for the 3” (id = 3.068”) Viking Model J-1 Alarm Check Valve at a specific flow, use the following formula:

\[
P_{\text{PSI}} = \left( \frac{4.52 \times Q^{1.85}}{C^{0.85} \times 3.068^{4.87}} \right) \times 10
\]

Where
- \( P \) = Friction Loss (PSI)
- \( Q \) = Flow in GPM
- \( C \) = Constant (=120)