$$
\begin{aligned}
V_\rho(v) &= \rho(v) \\
V_\rho(\lambda v.e) &= \{(\varepsilon, (\lambda v.e, \rho))\} \\
V_\rho(e\ e') &= V_\rho(e) \bowtie V_\rho(e') \\
V_\rho(\mathbf{let}\ v{=}e\ \mathbf{in}\ e') &= V_\rho(\lambda v.e') \bowtie V_\rho(Y\ (\lambda v.e)) \\
&\qquad \text{where } Y = \lambda r.(\lambda x.r\ (x\ x))\ (\lambda x.r\ (x\ x)) \\
V_\rho(\mathbf{share}\ v{=}e\ \mathbf{in}\ e') &= \{(\bar{q}\bar{q}', \underline{e}') \mid \\
&\qquad (\bar{q}, \underline{e}) \in V_\rho(e), \\
&\qquad (\bar{q}', \underline{e}') \in \{(\varepsilon, (\lambda v.e', \rho))\} \bowtie \{(\varepsilon, \underline{e})\}\} \\
V_\rho(a{\prec}{\succ}) &= \{(\varepsilon, a{\prec}{\succ})\} \\
V_\rho(a{\prec}e^n{\succ}) &= \{(\bar{q}^n, a{\prec}e'^n{\succ}) \mid ((\bar{q}_i, e'_i) \in V_\rho(e_i))^{i:1..n}\} \\
V_\rho(\mathbf{dim}\ D\langle t^n\rangle\ \mathbf{in}\ e) &= \{(D.t_i\bar{q}, e') \mid i \in \{1,\ldots,n\}, (\bar{q}, e') \in V_\rho(\lfloor e\rfloor_{D.i})\}
\end{aligned}
$$