$$\begin{array}{ccc}
(E_k)^{p-1} & Q^{p-1} \dashrightarrow & E^{p-1} \\
\downarrow & \downarrow & \downarrow{\scriptstyle d_E^{p-1}} \\
(E_k)^p \longleftarrow \ker(d_{E_k}^p) \hookrightarrow & Z^p(E) =\!\!= & B^p(E)
\end{array}$$