$$\text{diag}\left\{\frac{1}{\rho}\right\}_x : \Omega_x \longrightarrow \Omega_x\,; \qquad \text{diag}\left\{\frac{1}{\rho}\right\}_y : \Omega_y \longrightarrow \Omega_y\,; \qquad \text{diag}\left\{\frac{1}{\rho}\right\}_z : \Omega_z \longrightarrow \Omega_z$$