

Supplemental Data:

The data of pore water pressure (Δu) development for the tests in Figs. 6&7 (in the manuscript) are shown in the Figs.1&2. The Δu of a very dense specimen decreases after attaining initial peak, whereas the looser specimen is more likely to exhibit positive Δu development during shearing (see Figs. 1&2).

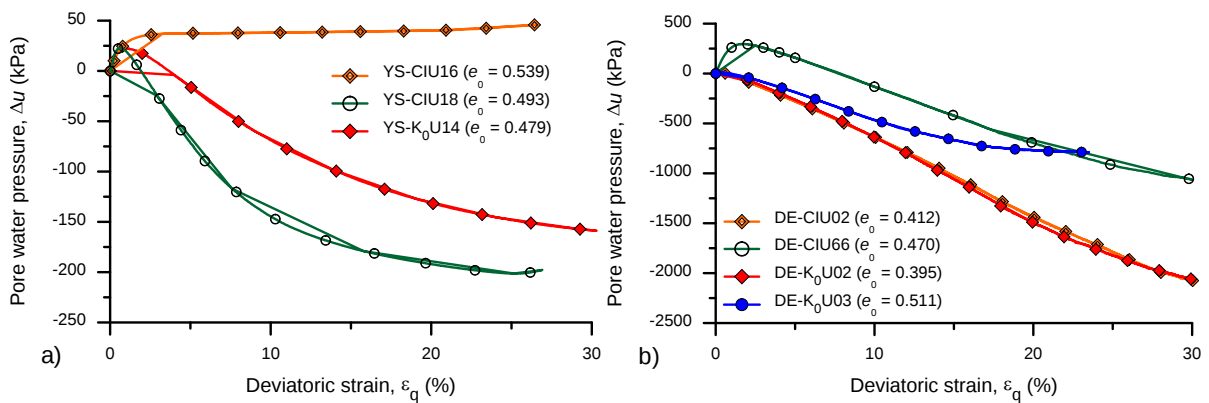


Fig. 1. Δu development diagram for dense specimens: (a) YS specimen and (b) DEM assembly.

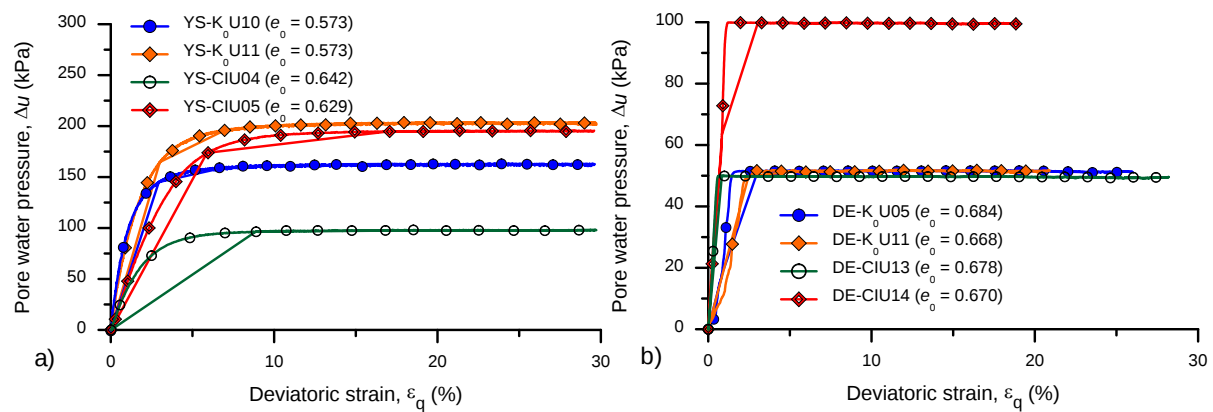


Fig. 2. Δu development diagram for loose specimens: (a) YS specimen and (b) DEM assembly.