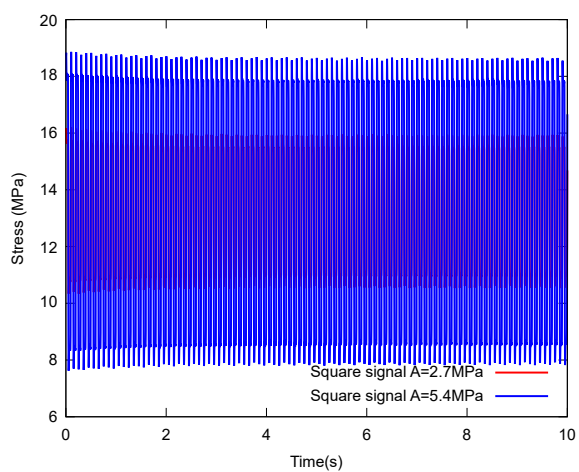
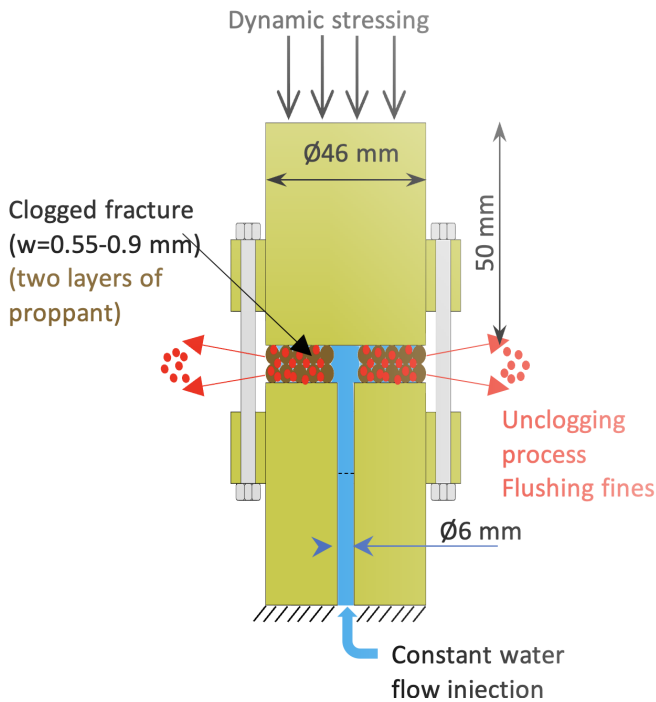


**(a)**  $f=1\text{Hz}$



**(b)**  $f=10\text{Hz}$



**(c)** Schematic description of the fluid flow in the propped fracture. Upon applying the dynamic loads with a constant flow injection, fines are flushed out from the fracture.