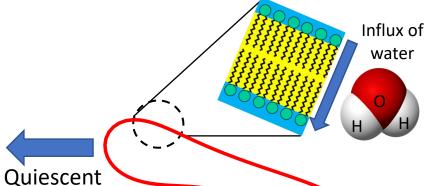


(b) A starfish vesicle at t=0 relaxes and swells to a circle.

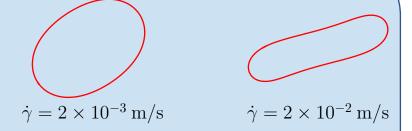
 $\dot{\gamma} = 2 \times 10^{-5} \,\mathrm{m/s}$



(a) A semi-permeable vesicle (permeable only to water) immersed in a viscous fluid.



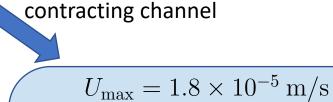
Efflux of water



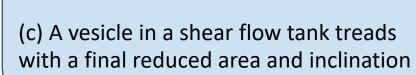
 $\dot{\gamma} = 2 \times 10^{-4} \,\mathrm{m/s}$

Confinement in a closely fit channel

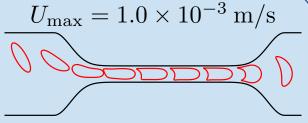
water



Confinement in a



angle that depend on the flow rate.



(e) A vesicle passing repeatedly through a slit geometry loses close to 50% of its fluid volume.

(d) A vesicle in a stenosed geometry loses 6% of its fluid volume.