

# How Metal Pipe Corrode Internally

- Combination of a Corrosive Fluid and High Flow Velocity results in **EROSION CORROSION** (combine effect of erosion and corrosion)
- The same stagnant or slow-flowing fluid will cause a low or modest corrosion rate, but rapid movement of the corrosive fluids physically erodes and removes protective film, exposes the reactive alloy beneath, and accelerates corrosion can lead to extremely high pitting rates
- In two phase liquids (Containing suspended solid particles or gas bubbles), the damage will be severe due to the impact of the particles (Abrasion)
- The increased turbulence caused by pitting on the internal surfaces of a tube can result in rapidly increasing erosion rates and eventually a leak

