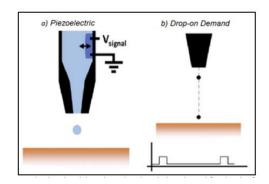
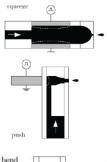
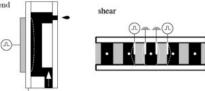
FUJIFILM DIMATIX INKJET PRINTHEAD THEORY OF OPERATION



Drop On Demand Inkjet - Piezo



- Piezoelectric ceramic material deforms when voltage is applied
- Distortion creates a pressure pulse in the ink chamber
- Causes a drop to be ejected from the nozzle
- Many different modes shear, bend, push, edge = different configurations of the piezo material and the nozzle



Key Benefits of Piezo Drop On Demand

- Robust technology for broad range of industrial applications
 - Proven in production
- · Adaptable configurations to provide higher speeds and print quality
- Consistent drop velocity and drop volume
- · Wide range of ink capability
 - Enables wide range of applications
- High accuracy jetting
- Long life printheads
 - Capable of high duty production
 - High reliability (subject to correct use)