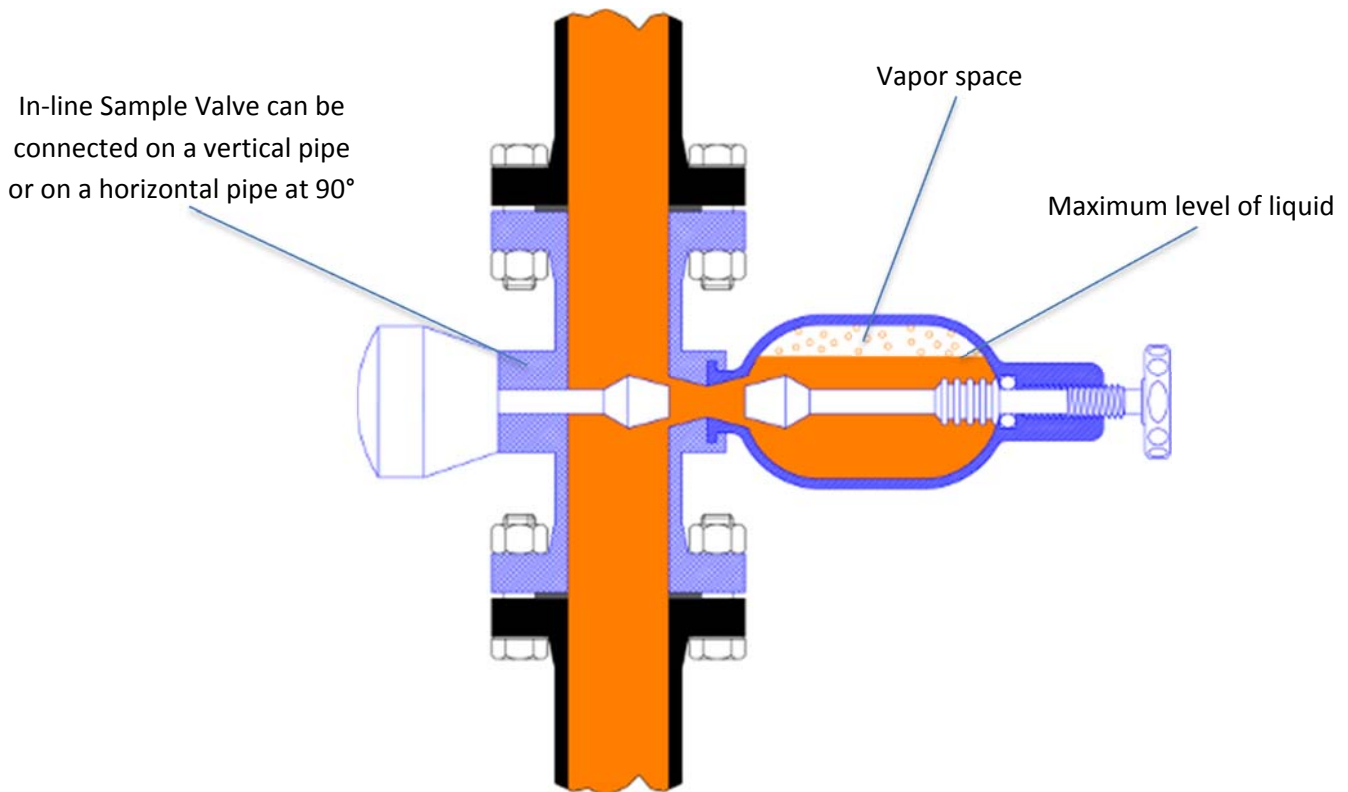


Illustration of how BIAR sample containers "COLUMBIA-LY" provide vapor space

The following illustration shows how BIAR COLUMBIA-LY sample container provide a sufficient vapor space to prevent overpressure from volumetric expansion.

An increase in temperature causes the internal cylinder pressure to rise by the combination of volumetric expansion of the liquid (compressing the vapor space) and an increase in the vapor pressure of the contents.

When used horizontally, BIAR sample containers COLUMBIA-LY create a vapor space that is necessary for volumetric expansion of the liquid.



Use

Outage is the vapor space in the cylinder expressed as a percentage of the total volume of the cylinder.

$$\% \text{ outage} = (\text{vapor space} / \text{total volume}) \times 100$$