

A cross-sectional diagram of a reactor assembly. The diagram shows a central rectangular component, likely a piston, with a diagonal hatching pattern. This component is surrounded by a solid rectangular frame, also with a diagonal hatching pattern, representing the reactor wall. The piston is positioned such that it is slightly offset from the center of the frame, creating a gap or 'crevice' between its top and the upper part of the wall. The bottom of the piston is also offset, creating a gap between its base and the lower part of the wall. On the right side of the piston, there are two sets of rectangular grooves, one on the top and one on the bottom, labeled 'O-ring Grooves'. On the left side of the piston, there is a horizontal arrow pointing to the left, labeled 'Piston Motion'. A dashed horizontal line runs through the center of the diagram, indicating the axis of symmetry.

Reactor Wall

Crevice

O-ring Grooves

Piston Motion