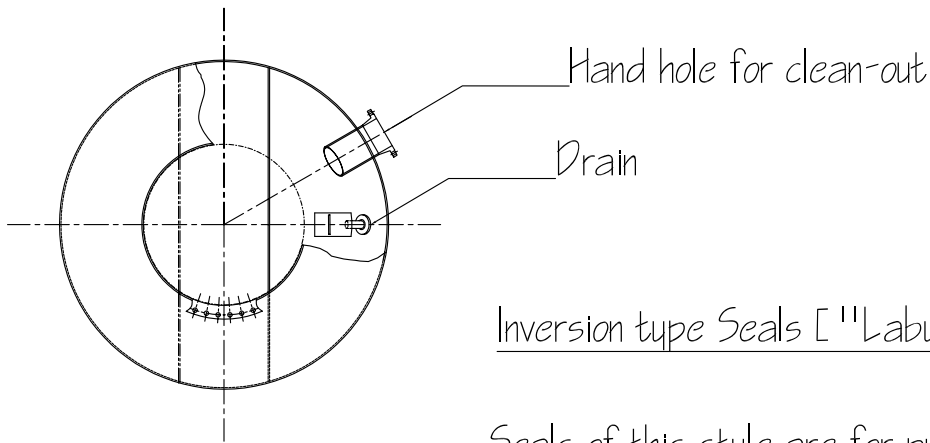




Inversion type Seals ["Labyrinth"; "Molecular"]

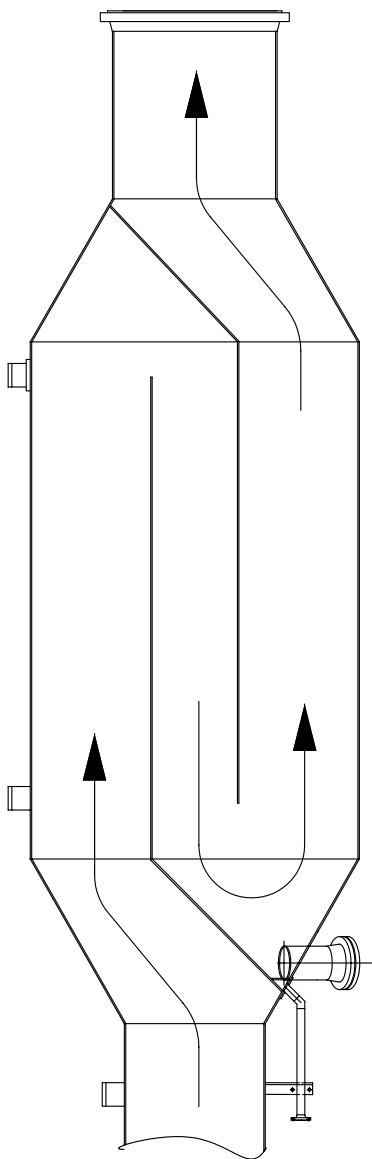
Seals of this style are for purge reduction only and **DO NOT** function as Flame or Detonation Arrestors. Gases follow a labyrinth path through the seal as shown. Lighter-than-air gases accumulate in the upper bend and resist air infiltration due to buoyant decanting.

A constant purge is required to maintain a forward flow and counteract gaseous diffusion.

Purge rates must exceed 0.01 fps in the center chamber. No less than 0.03 fps, to a maximum of 0.07 fps, is recommended to provide a factor of safety against changing atmospheric conditions and allow rapid restoration of the seal [7 - 2 mins].

Although purge flows may be constantly maintained, the benefit is derived during periods of relative dormancy when no active relief is occurring to naturally keep the stack air-free.

This sketch is schematic and not intended to represent a specific supplier's design. Alternative configurations may use concentric tubes or a mixture of tubes and baffles.



TYPICAL ARRANGEMENT OF GAS-INVERSION SEAL FOR A FLARE