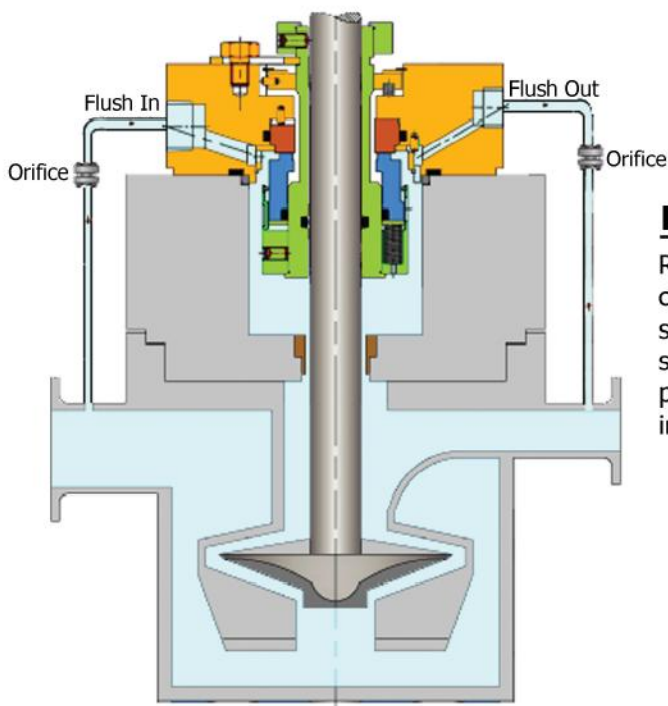
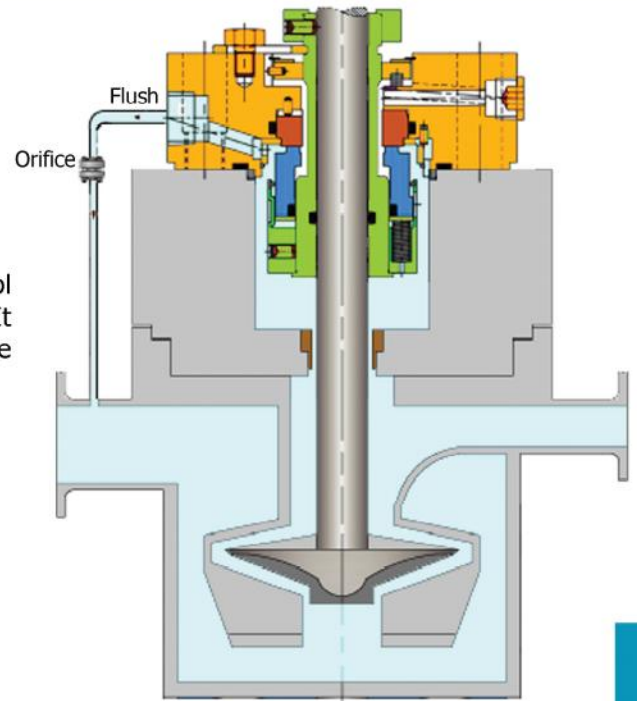




SINGLE SEAL PIPING PLANS

PLAN 13

Recirculation from the seal chamber through a flow control orifice and back to the pump suction or pump suction piping. It is the standard flush plan selection for vertical pumps that are not provided with a bleed bushing below the seal chamber.



PLAN 14

Recirculation from pump discharge through a flow control orifice to the seal and simultaneously from the seal chamber through a flow control orifice to pump suction. This allows fluid to enter the seal chamber and provide cooling while continuously venting the pressure in the seal chamber.

PLAN 21

Recirculation from a high-pressure region of the pump (typically pump discharge piping) through a flow control orifice and cooler, then into the seal chamber. Provides a cool flush to the seal. This may be needed to improve the margin to vapor formation, to meet secondary sealing element temperature limits.

