

We seal everything including your confidence



FLUSHING PLANS AS PER API - 682

Plan 01 is an recirculation from pump discharge area of the pump into the seal chamber. Recommended for clean pumpage This flush plan should only be used

for clean products as dirty products.

Plan 02 is a non recirculating flush. Jacketed stuffing box and throat bushing required when specified. Solids are not continually introduced HEATING/ COOLING INLET/OUTLET into the seal chamber. PLAN 02

PLAN 01

Plan 11 is the most common flush plan in use today. Recirculation from pump discharge through a flow control orifice to the seal. No product contamination. Connection FI for flushing

PLAN 11

Recirculation from pump seal chamber through a flow control orifice and back to pump suction. Typically plan 13 is used on vertical pump. Connection FO for flushing outlet.

Recirculation from pump discharge through a flow control orifice and heat exchanger, then into the seal chamber ww Process fluid cools and lubricates the seal. Connection FI for flushing inlet.

PLAN 13

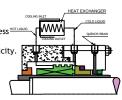
PLAN 23

from external source.

Connection FI for flushing

Recirculation from pumping ring in the seal chamber through a heat exchanger and back into the seal

More efficient than a plan 21 and less chance of heat exchanger fouling. Reduce temperature improves lubricit Connection FI for flushing inlet.



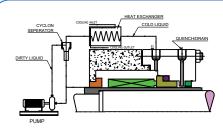
PLAN 21

Recirculation from pump discharge through a cyclon seperator delivering the clean fluid to the seal chamber. Unlikke a strainer or filter, the

abrasive seperator does not require cleaning. Connection FI for flushing

PLAN 31

CYCLON SEPERATOR

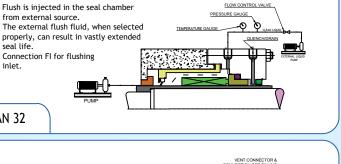


Recirculation from pump discharge through a cyclon seperator delivering the clean fluid to a heat exchanger cooler and then to the seal chamber.

Solids are removed and product temperature is reduced to enhance the seal's environment. Connection FI for flushing inlet.

PLAN 32

seal life.



FLOW CONTROL VALV

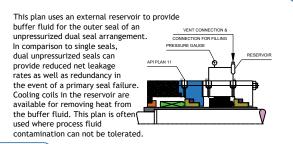
External reservoir providing a ded enabled blanket for the fluid to quench of the connection of the gland connection FI for flushing. VENT HOLE

PLAN 41

PLAN 51

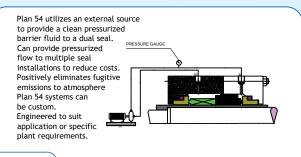


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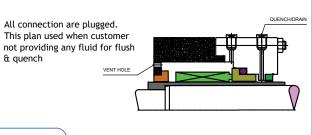


Clean & pressurized external fluid provided to seal chamber from reservoir. Pumping ring circulate intemal fluid. Barrier fluid pressure is more than stiffing box pressure.

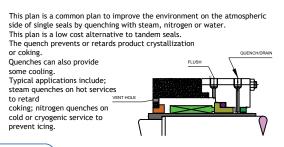
PLAN 52



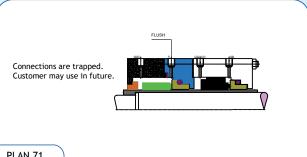
PLAN 53



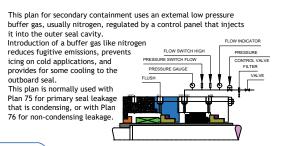
PLAN 54



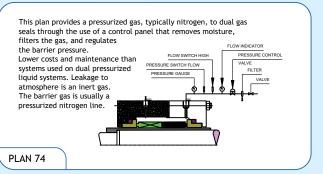
PLAN 61



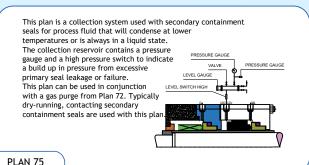
PLAN 62



PLAN 71



PLAN 72



This plan is a system to divert non-condensing primary seal leakage to a flare or vapor recovery system. Lower initial and maintena costs than dual unpressurized seals using a Plan 52. This plan can be used in conjunction with a gas purge from Plan 72. Can be used with dry-running, contacting or non-contacting secondary containment seals.

PLAN 76



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