

INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

PN 32-0275
REV A
OCTOBER 2003

PIPE LINE DEHYDRATOR FOR NATURAL GAS *PLD 8-2.8 thru PLD 36-2.8*

WARNING

DONOTREMOVE,REPAIRORREPLACEANYITEMONTHISVESSELWHILEITISUNDERPRESSURE.

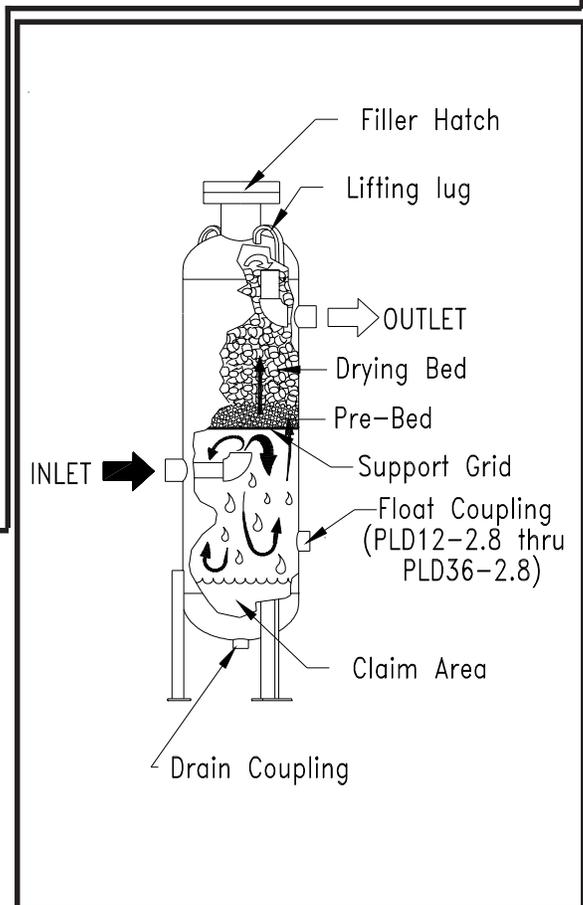
DONOTOPERATEIFTHEREISALEAKINVESSEL.IMMEDIATELYTAKEVESSELOUTOFSERVICEANDCALLYOURCERTIFYINGAUTHORITY.IF THEREISALEAK,DEPRESSURIZEVESSEL,INSPECT,REPAIRANDORREPLACEASNECESSARY.

DONOTOPERATEABOVEMAXIMUMWORKINGPRESSURE(MWP)ANDORABOVEMAXIMUMOPERATINGTEMPERATURE(DEGREES°F).

DONOTWELDORGRINDVESSEL.ITWILLNOTBESAFETOOPERATE

DONOTOPERATEIFTHEVESSELHASBEENDAMAGEDBYFIRE.TAKEOUTOFSERVICEIMMEDIATELYANDNOTIFYYOURCERTIFYINGAUTHORITY.

ANYDAMAGETOVESSELCANMAKEITUNSAFE.INSPECTOUTSIDEANDINSIDEOFVESSELREGULARLYFORCORROSIONORANYDAMAGE(I.E.,DENTS,GOUGESORBULGES).IFDAMAGED,TAKEOUTOFSERVICEIMMEDIATELY.CALLYOURCERTIFYINGAUTHORITY.



1.0 OPERATION

A Pipeline Dehydrator removes the water vapor (humidity) present in the gas line. The process cleans and dries the gas as it flows through a vessel which is filled with a special drying agent (desiccant). The dehydrator operates automatically. There are no moving parts and no external source of power is required.

"Wet" natural gas enters the lower portion of the dryer where liquid water and solid particles are separated by gravity and fall to the bottom of the vessel. The gas moves upward through the desiccant bed consisting of a prebed and a drying bed of Van Air desiccant tablets. These tablets attract and absorb moisture from the gas before it flows through the dryer outlet. The tablets dissolve gradually as they absorb the moisture. The prebed creates an extended surface area because of the liquid run off from the drying bed. The prebed then creates an area capable of removing additional moisture from the gas entering the drying bed. This conserves the absorbent desiccant tablets. The solution of dissolved desiccant and water falls into the claim area at the bottom of the vessel and must be drained regularly. An automatic drain can be installed on the dehydrator to drain the vessel automatically.