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### Gas-Liquid Separators Sizing Parameter - PetroSkills

#### (PDF) Gas/Liquids Separators: Quantifying Separation ...

LIQUID/LIQUID AND GAS/LIQUID/LIQUID (THREE-PHASE) SEPARATORS -TYPE SELECTION AND DESIGN RULES

Selection of separator: Horizontal or Vertical. As a rule, a vertical drum should be chosen when the ratio of vapor to liquid volume is large (750 or more). The vertical drum is often preferred since the separation efficiency does not vary with the liquid level in the drum. Also, the plot space required is lower for the vertical drum.

The selection of the orientation of a gas-liquid separator depends on several factors. Both vertical and horizontal vessels have their advantages. Depending on the application one has to decide on the best choice between the alternatives. Advantages of a vertical vessel are:

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#### BN-EG-UE109 Guide for Vessel Sizing

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Dehydration System: Glycol Regeneration (TEG) [Glycol Pump, Reboiler, Contact Tower, BTEX] Oil Characterization with

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Separator CPhI Webinar on Zaiput's Continuous and Batch Separation

Technology Lecture 59: Gas liquid separation in natural gas systems - I

#### Gas Liquid Separators Type Selection

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Unlike a water/oil separator which has a horizontal tank, a vertical tank is the best configuration for liquid/ gas separator. A vertical separator has smaller footprint than horizontal form, which makes it easier to install. Also, sand can be removed easier in vertical tank.

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#### Selecting gas/liquid separators (Journal Article) | OSTI.GOV

The goal for ideal separator selection and design is to separate the well stream into liquid-free gas and gas-free liquid. Ideally, the gas and liquids reach a state of equilibrium at the existing conditions of pressure and temperature within the vessel.

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**Liquid / Gas Separation Technology - Oil & Gas | Pall ...**

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