

API Specification

12J

Eighth Edition, October 2008
Specification for Oil and Gas Separators

Annex E

Separator Design Information

API Monogram® Required

☐ Yes ☐ No

Annex E (informative)

Separator Design Information

I. Operating Conditions

A. Liquid Volumes

1. Oil/Condensate _____ bbl/day Gravity _____ °API Viscosity _____ cp
2. Water _____ bbl/day Sp. Gr. _____ (Water = 1.0)

B. Oil/Condensate Characteristics

1. Foaming: Nil _____ Moderate _____ Severe _____
2. Paraffin Problem: No _____ Yes _____ (if Yes, give cloud point) _____ °F
3. Slug Flow: No _____ Yes _____ (if Yes, give details such as maximum liquid rate, slug volume, etc., or suggest surge factor.) _____

C. Gas _____ MMSCFD Sp. Gr. _____ (Air = 1.0)

D. Operating Temperature (°F) _____ Max _____ Min

E. Operating Pressure (psig) _____ Max _____ Min

F. H₂S Content _____ Mole% CO₂ Content _____ Mole%

G. Geographical Location _____

II. Design Requirements

A. Type _____ Vertical _____ Horizontal _____ Spherical

Manufacturer's Recommendation _____

_____ Two-phase _____ Three-phase

B. Design Pressure _____ psig at Temperature _____ °F

C. Type Mist Extractor (Specify) _____

D. Liquid Retention Time _____

E. Corrosion Allowance _____ (in.)

F. Corrosion Allowance for Non-pressure Internal Parts _____ (in.)

G. NACE MR 0175 Required No _____ Yes _____

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H. Special Stress Relieving No _____ Yes _____

Specify if Yes _____

I. API RP 14C Safety Systems Required: No _____ Yes _____

III. Coatings

A. External: Mfg. Std _____ Other _____

Specify if Other _____

B. Internal (Specify) _____

C. Cathodic Protection (Specify) _____

IV. Special Instructions

A. Radiographic Inspection: ASME Code _____ Other _____

Specify if Other _____

B. Hydrostatic Test Pressure: ASME Code _____ Other _____

Specify if Other _____

C. Hardness Testing Requirements (Specify) _____

D. Lifting Lugs (Specify) _____

E. Skid Mounting (Specify) _____

F. Welding Requirement: ASME Code _____ Other _____

Specify if Other _____

G. Sand Removal System (Specify) _____

H. Other _____