

Liquid Sampling Questionnaire

Please complete and return to Jiskoot™ Quality Systems

| | | | |
|--------------------|----------------------|------------------------------|----------------------|
| Project Name: | <input type="text"/> | Customer Ref: | <input type="text"/> |
| Final Destination: | <input type="text"/> | Product to be sampled: | <input type="text"/> |
| End User: | <input type="text"/> | Application (import/export): | <input type="text"/> |

This page lists the minimum information needed to provide a proposal for your application. Please provide as much information as possible using both pages of this questionnaire to ensure we offer the optimal solution for your application.

| | | | | |
|---------------------------------|---|-----------------------------------|---|---|
| Main pipeline | Size: <input type="text"/> | Sched: <input type="text"/> | or | Inner Diam: <input type="text"/> |
| Pipeline orientation: | Horizontal <input type="checkbox"/> Vertical <input type="checkbox"/> | | | |
| Main pipeline flow rate: | Min: <input type="text"/> | Operational: <input type="text"/> | Max: <input type="text"/> | Units: <input type="text"/> |
| Sampling requirements: | Annual Volume Sampled: <input type="text"/> | | Batch Size: <input type="text"/> | Units: <input type="text"/> |
| | Required Minimum collected sample per batch: <input type="text"/> | | Units: <input type="text"/> | |
| Density: | Min: <input type="text"/> | Operational: <input type="text"/> | Max: <input type="text"/> | Units: <input type="text"/> |
| | Or API Gravity: <input type="text"/> @ <input type="text"/> °F <input type="checkbox"/> / °C <input type="checkbox"/> | | | |
| Viscosity: | Min: <input type="text"/> | @ <input type="text"/> | °F <input type="checkbox"/> / °C <input type="checkbox"/> | Units: <input type="text"/> |
| | Max: <input type="text"/> | @ <input type="text"/> | °F <input type="checkbox"/> / °C <input type="checkbox"/> | Units: <input type="text"/> |
| Line pressure: | Min: <input type="text"/> | Operational: <input type="text"/> | Max: <input type="text"/> | Units: <input type="text"/> |
| Design pressure: | <input type="text"/> | Units: <input type="text"/> | | |
| Vapour pressure: | < 14PSI <input type="checkbox"/> or >14PSI <input type="checkbox"/> If >14psi; please state value at operating conditions: <input type="text"/> | | | |
| Flange rating: | ANSI 150 <input type="checkbox"/> / 300 <input type="checkbox"/> / 600 <input type="checkbox"/> / 900 <input type="checkbox"/> / 1500 <input type="checkbox"/> RF <input type="checkbox"/> / RTJ <input type="checkbox"/> Other: <input type="text"/> | | | |
| Line temperature: | Min: <input type="text"/> | Operational: <input type="text"/> | Max: <input type="text"/> | °F <input type="checkbox"/> / °C <input type="checkbox"/> |
| Design temperature: | Min: <input type="text"/> | Max: <input type="text"/> | °F <input type="checkbox"/> / °C <input type="checkbox"/> | |

Comments:

Do you require a proposal for a site survey to determine your needs: Yes / No

How will the sampler be used:

| | | |
|---|--|---|
| Quality verification <input type="checkbox"/> | Production allocation <input type="checkbox"/> | Separator measurement <input type="checkbox"/> |
| Business unit accounting <input type="checkbox"/> | Custody transfer <input type="checkbox"/> | Contamination verification <input type="checkbox"/> |
| | Process measurement <input type="checkbox"/> | Composition analysis <input type="checkbox"/> |

Which standard should it comply with:

| | | | |
|-------------------------------------|------------------------------------|-----------------------------------|--------------------------------|
| ASTM D4177 <input type="checkbox"/> | ISO 3171 <input type="checkbox"/> | All <input type="checkbox"/> | None: <input type="checkbox"/> |
| API 8.2 <input type="checkbox"/> | IP/EI 6.2 <input type="checkbox"/> | SY/T5317 <input type="checkbox"/> | Other: <input type="text"/> |

Do you intend to prove the sampling system by water injection testing? Yes / No

A well-mixed pipeline is a mandatory requirement of ISO 3171, API 8.2, IP 6.2 and ASTM D4177. As part of our review of your application, we will assess your pipeline mixing and make recommendations accordingly.

This additional information will enable us to offer the optimal configuration for your application

PROCESS CONDITIONS

Water: % Wax: % Wax Appearance Temperature: °F / °C

Corrosive Properties: NACE: Yes / No

Materials:

ENVIRONMENT

Location:

Marine terminal coastal Refinery Oilfield onshore
 Gathering Offshore/FPSO Pipeline or Tank farm

Line-fill volume: Unit:

Ambient Temperature: Min: Max: Unit: °F / °C

Ambient Humidity: Min: % Max: %

Site utilities:

A.C Volts Phase Hz:

A.C Volts Phase Hz:

D.C Volts

Instrument air: barg / psi (typically requires 5-7 barg)

Hazardous area classification: Zone: Group: Temp: °F / °C

Class: DIV: Temp: °F / °C

SYSTEM CONFIGURATION

Please recommend based on my application: System configuration: Yes / No

Controller: Safe area Hazardous area Other:

Low pressure receiver <14PSI: 9 / 18 / 35 Litre Quantity:

High pressure receiver >14PSI: 0.5 / 1 / 2 / 4 Litre Quantity:

Receiver options: Auto changeover required: Yes / No
 Receiver monitoring system: Yes / No

Integrated inline devices in sample loop:

Densitometer: Yes / No Quantity:

Water in oil monitor: Yes / No Quantity:

Pressure and Temperature transmitters: Yes / No Quantity:

Other information:

Completed By:

Date:

MEASUREMENT SYSTEMS

DIVISION HEADQUARTERS
HOUSTON, TEXAS
+1 800 654 3760

JISKOOT QUALITY SYSTEMS
HEADQUARTERS
TUNBRIDGE WELLS, KENT, UK

+44 1892 518000
ms-jiskootinformation@c-a-m.com

JISKOOT QUALITY SYSTEMS
US TECH CENTER
HOUSTON, TEXAS

+1 281 582 9500
ms-jiskootsales@c-a-m.com