|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | **“SMNPO-Engineering” JSC** | | | | Ukraine, 40009, Sumy,  58, Gorkogo Str.,  sumy-frunze.com |
|  | |  | | | | ***E-mail: technical@sumy-frunze.com*** |
| Data Sheet No. **Inlet Separator Unit** | | | | | | |
| Facilities | |  | | | | |
| Customer | |  | | | | |
| Address | | | | | | |
| Telephone | | Fax | | | | Code |
| Description | |  | | | | |
| Service | |  | | | | |
| Item on the diagram | |  | | | | |
| ***Design Parameters*** | | | | | | |
| Working medium | | - hydrocarbon condensate | | | |  |
| - water condensate | | | |  |
| - other | | | |  |
| Working medium density, kg/m³ | | - hydrocarbon condensate | | | |  |
| - water condensate | | | |  |
| - other | | | |  |
| Toxicity | | (yes/no) | | | |  |
| Fire hazard | | (yes/no) | | | |  |
| Explosion hazard | | (yes/no) | | | |  |
| Explosive mixture category and group | | | | | |  |
| Intergranular corrosion | | (yes/no) | | | |  |
| Corrosion cracking | | (yes/no) | | | |  |
| Corrosion rate | | (mm/year) | | | |  |
| Pressure, MPa: | | - working | | | |  |
| - design | | | |  |
| Temperature, °С: | | - working | | | |  |
| - design | | | |  |
| Content of mechanical impurities in liquid, mg/dm3 | | - separator inlet | | | |  |
| - separator outlet | | | |  |
| Content of liquid in gas, mg/nm3 | | - separator inlet | | | |  |
| - separator outlet | | | |  |
| Content of mechanical impurities in gas, mg/dm3 | | unit inlet | | | |  |
| Content of mechanical impurities in gas, mg/dm3 | | unit outlet | | | |  |
| Allowable mass concentration of liquid in gas, g/nm3 | | unit outlet | | | |  |
| Allowable size of mechanical impurities particles, micron | | unit outlet | | | |  |
|  | |  | | | |  |
| ***Version*** | | | | | | |
| Delivery type | | | package | | |  |
| non-package | | |  |
| Location | | | indoors | | |  |
| outdoors | | |  |
| Separator type (horizontal/vertical) | | | | | |  |
| Internal components | | | | | |  |
| Type of separation elements (recommended) | | | | | |  |
|  | | | | | |  |
| Need for heating (yes/no, internal/external) | | | | | |  |
| Volume, m3 | | | | | |  |
| Material | | | | | |  |
| Service life, years | | | | | |  |
| Main process nozzles schedule, mm (recommended): | | | | | | |
| - product inlet | | | | | |  |
| - product outlet | | | | | |  |
| - gas outlet | | | | | |  |
| - outlet to atmosphere | | | | | |  |
| - heat transfer agent supply for heating | | | | | |  |
| - heat transfer agent discharge | | | | | |  |
| - nitrogen supply | | | | | |  |
| - for steaming | | | | | |  |
|  | | | | | |  |
|  |
| **Instrumentation (yes/no)** | | | | | | |
| - temperature monitoring (in Automatic Control System (ACS) and locally) | | | | | |  |
| - pressure monitoring (in ACS and locally) | | | | | |  |
| - level monitoring (in ACS and locally) | | | | | |  |
| - liquid flowrate metering | | | | | |  |
| - other | | | | | |  |
| ***Equipment Set*** | | | | | | |
|  | | | | | |  |
|  | | | | | |  |
| Pressure maintenance unit in the separator (yes/no) | | | | | |  |
| Condensate and water drain units (yes/no) | | | | | |  |
| Valves unit version with drain units and pressure maintenance unit (heated unit with heating from the heat supply system, on an open frame with electric heat tracing of pipelines or other ) | | | | | |  |
| Need for heat insulation (yes/no) | | | | | |  |
| Need for heat insulation fixing units (yes/no) | | | | | |  |
| Need for supply metal structures and servicing platforms (yes/no) | | | | | |  |
| ***External Utilities*** | | | | | | |
| Heat transfer agent for heating valve unit and distributor (heat transfer agent, pressure, temperature, supply/return line) | | | | | |  |
| Servicing platforms (yes/no) | | | | | |  |
| ***Regional Climatic Conditions*** | | | | | | |
| Air minimum temperature, °С | | | | | |  |
| Air maximum temperature, °С | | | | | |  |
| Temperature during the coldest five days, °С | | | | | |  |
| Design temperature for selection ventilation equipment, °С | | | | | |  |
| Air design barometric pressure, mm Hg | | | | | |  |
| Sea level elevation, m | | | | | |  |
| Wind load, kg/m2 | | | | | |  |
| Snow load, kg/m2 | | | | | |  |
| ***Special Requirements*** | | | | | | |
| Valves actuation medium (electrically/pneumatically driven) | | | | | |  |
| Valves position when actuation medium is cut off | | | | | |  |
| Valves control | | | | | |  |
| - medium, pressure, degree of gas or air drying | | | | | |  |
| - power supply, V, Hz | | | | | |  |
| Power supply availability, V, Hz | | | | | |  |
| Spare part set availability:  - for valves  - for the separator  - for instruments | | | | | |  |
| Tools availability:  - for valves revision  - for separator inspection | | | | | |  |
| ***Other additional requirements*** | | | | | |  |
| ***Scope of supply*** | | | | | |  |
| ***Requirements for the completeness of the developed documentation:***  Passport (yes/no)  Operation Manual (yes/no) | | | | | |  |
| ***Compliance Requirements*** | | | | | |  |
| Gas composition, mol%: Methane СН4 –; Ethane С2Н5 –; Propane С3Н8 –; i- Butane С4Н10 –; n- Butane С4Н10 –; i- Pentane С5Н12 –; n- Pentane С5Н12 –; Hexanes –; Heptans –; Octanes –; С9+ higher –; Carbon dioxide СО2 –; Nitrogen N2 –; Mercaptans –g/m³; Hydrogen sulfide –g/m³.  molecular weight –; density (at 20°С and 1,033 kgf/cm) –kg/m; gas specific humidity – 100% saturated. | | | | | | |
| **Other** | | | | | | |
| Developed by |  |  | |  | Inlet Separator Unit | |
| Checked by |  |  | |  |
| Approved by |  |  | |  |