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|  | | **“SMNPO-Engineering” JSC** | | | Ukraine, 40009, Sumy,  58, Gorkogo Str., frunze.com.ua |
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| Data Sheet No. **Horizontal (vertical) pressure vessel** | | | | | |
| 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 | | |  |
| ***Version*** | | | | | |
| Vessel type (above ground/buried) | | | | |  |
| Vessel type (horizontal/vertical) | | | | |  |
| Internal components | | | | |  |
| Casing splits (yes/no) | | | | |  |
| The need for heating (yes/no, internal/external) | | | | |  |
| Volume, m3 | | | | |  |
| Location | | | | |  |
| Material | | | | |  |
| Service life, years | | | | |  |
| Main process nozzles schedule, mm (recommended): | | | | | |
| - product inlet | | | | |  |
| - products outlet | | | | |  |
| - gas outlet | | | | |  |
| - outlet to atmosphere | | | | |  |
| - heat transfer agent supply for heating | | | | |  |
| - heat transfer agent discharge | | | | |  |
| - nitrogen supply | | | | |  |
| - for steaming | | | | |  |
| - opening for the pump | | | | |  |
|  |
| **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*** | | | | | |
| Submersible pump for pumping liquid (yes/no) | | | | |  |
| Pump parameters:  - head, m  - capacity, m3/h | | | | |  |
| Pressure maintenance unit in the vessel (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) | | | | |  |
| ***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 vessel  - for instruments | | | | |  |
| Tools availability:  - for valves inspection  - for vessel 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 |  |  |  | Pressure vessel | |
| Checked by |  |  |  |
| Approved by |  |  |  |