|  |  |  |
| --- | --- | --- |
| **CUSTOMER DATA** | | **Please fill all the data as much as possible. Any lacking data can be assumed by SPX Plenty.**  **Data highlighted with yellow must be given as a minimum required information.** |
| **COMPANY NAME:** | |
| **CONTACT PERSON NAME&SURNAME :** | |
| **EMAIL:** | |
| **TELEPHONE NUMBER:** | |
| **END USER COMPANY: (If different)** | |
| **TANK LOCATION (CITY/COUNTRY)** | |
| **OPERATING DATA** | | **REMARKS** |
| Purpose of mixing | Homogenization |  |
| Blending |
| Other? |
| **SITE CONDITIONS** | |  |
| Area classification | Zone 2 or other? |  |
| **PROPERTIES OF COMPONENTS** | |  |
| Liquid |  |  |
| Design Temperature |  |  |
| Viscosity | cP @ X Celcius ? |  |
| Density of the product | gr/cm3 |  |
| **STORAGE TANK** | |  |
| Equipment tag number |  |  |
| Tank mounting nozzle size | 24” ANSI or other? |  |
| Working volume m3 | Max. Liquid inside the tank |  |
| Tank Diameter |  |  |
| Tank Height |  |  |
| Heating coils |  |  |
| **SIDE ENTRY MIXER** | |  |
| Equipment tag number |  |  |
| Mixer type | Side Entry: Fixed or Swivel Angle |  |
| Number of mixers | X mixers per tank? |  |
| Propeller type |  |  |
| Propeller power number |  |  |
| Diameter of propeller |  |  |
| Propeller pitch to (diameter) ratio |  |  |
| Direction of pumping action |  |  |
| Rotational propeller shaft speed |  |  |
| First critical speed of shaft |  |  |
| Type of bearings |  |  |
| Distance between bearings |  |  |
| Bearing houses |  |  |
| Lubrication of bearings |  |  |
| Shaft sealing |  |  |
| Stuffing box pressure |  |  |
| Gland packing |  |  |
| Lubrication of stuffing box |  |  |
| Lubrication of swivel packing |  |  |
| Cooling required on stuffing box/bearings |  |  |
| Automatic swivel actuator system |  |  |
| Automatic belt tensioner |  |  |
| Shut-off devices required |  |  |
| Vibration limitation |  |  |
| Equipment noise limitation |  |  |
| Mixing time required (max 8 hours) |  |  |
| Power factor of propeller (for thrust calc.) |  |  |
| Min. theoretical power calculated |  |  |
| Dissipated power in liquid |  |  |
| Weight of propeller |  |  |
| Erection weight (shipping weight) |  |  |
| Total weight, operating |  |  |
| **ELECTRIC DRIVE** | |  |
| Supply | 400 V / 3 Phase / 50 Hz? Or other |  |
| Classification | EexdIIBT3 | Electric motor shall be ABB, Siemens or Weg |
| **TRANSMISSION** | |  |
| Type | Tooth-belt or Gear ? |  |
| Coupling make |  |  |
| Coupling type |  |  |
| **MATERIALS** | |  |
| **SIDE ENTRY MIXER** | |  |
| Body |  |  |
| Propeller |  |  |
| Shaft |  |  |
| Stuffing box bushings |  |  |
| Glands |  |  |
| Gaskets |  |  |
| Ball of swivel mechanism |  |  |
| Belts |  |  |
| Bearings |  |  |
| Pulleys (if applicable) |  |  |
| Guards |  |  |
| Mounting plate/supports |  |  |
| Bolting/nuts |  |  |
| **MECHANICAL SEAL** | |  |
| PART |  |  |
| Stationary seal ring |  |  |
| Stationary seal ring packing |  |  |
| Seal plate |  |  |
| Seal plate gasket |  |  |
| Safety bush/seal |  |  |
| Seal piping |  |  |
| Rotary seal ring |  |  |
| Rotary seal ring packing |  |  |
| Spring(s) |  |  |
| Shaft sleeve |  |  |
| Shaft sleeve packing |  |  |
| **FABRICATION AND INSPECTION REQUIREMENTS** | |  |
| Inspection/approval by |  |  |
| Visual inspection |  |  |
| Performance testing |  |  |
| Noise measurements |  |  |
| Stress relieving |  |  |
| Radiography |  |  |
| Other non-destructive testing |  |  |