

- B. The site tests for individual and parallel pump operation shall include but not be limited to the following measured over the entire specified range:
- Rated flow
 - Rated differential head
 - Shut-off head
 - Rated horsepower
 - Vibration of the units for pumps installed in the dry well
 - Noise level for pumps installed in the dry well
 - Bearing temperature measurement for pump with motors above 40 kW
- C. The measured values shall be as indicated in the Guaranteed Design Tables and in the pump set data sheets submitted by the Manufactures/Contractor.
- D. Tolerance factors shall be in compliance with BS EN ISO 9906 Grade 2.

1.2.5 Surge Protection

- A. The Contractor shall be responsible for designing, manufacturing, installing and testing a safe and proper functioning surge protection system for the plant proposed. The surge protection system shall include vessels, ventilation system, valves, drainage system, valves, fittings and appurtenances.
- B. The ventilation shall be connected to the drainage system of the vessel. The vessel shall be connected to system as shown in the drawings.
- C. Pipe line profile, attached to the contract documents, shall be considered as a guideline only.
- D. The contractor, when redesigning the plant, shall prepare his own surge analysis suitable for the system proposed. Such calculations shall be subject to the approval of the department and the engineer.
- E. Vessels shall be designed, manufactured and tested according to the relevant “pressure vessel, welding and safety codes and standards “welding tests and pressure tests shall be verified by an internationally organized quality assurance office.
- F. The surge control system supplier shall perform the necessary analysis of the pressure transient conditions within the piping system being protected.