Acoustical Requirements



Required Items

The following data must be made available by the customer, before work commences on the project:

- General arrangement drawings including detailed piping layout drawings (Iso's)
- Line list
- Valve List
- P&ID's
- Operating methodology (If multiple units)
 - o Pumps/Compressors in series or parallel and number
- Compressor/Pump Specs (Ariel Run file etc.)
 - o Number of Throws/Cylinders
 - Throw Specs
 - Piston diameter
 - Connecting rod length
 - Stroke
 - Valve pressure loss (ratio of valve open area to closed valve area)
 - Double acting or Single Acting
 - HE and CE clearance volumes
 - Discharge and Suction Pressures (Could also be put under operating points)
 - Throw action sequence
 - o Angle between throws
 - o Throw Locations (relative to driver)
 - Operating points (speeds, flow rates, etc.)
- Fluid properties
 - o Gas/liquid composition
 - o Bulk modulus (For liquids only)
 - o Density, viscosity, etc.
- Pulsation bottles/suppression devices
 - o Details/Drawings of internals (baffles, choke tubes, etc)
 - o Details/Drawings of nozzles including locations
 - o Operating conditions if applicable (charge pressure/volume etc.)
- Cooler data sheet
 - o Details of tube size and number of passes
 - Pressure drop
 - Header volumes

Helpful Items

The following data is considered helpful and it is only required in some circumstances:

• 3D models can be used to supplement or replace detailed piping layout drawings

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