

Elements of a Pump Specification Technical

Item	Function	Design	Manufacture
Location and environment	✓		
Liquid pumped and properties	✓		
Hydraulic duty	✓		
Redundancy in pump arrangement	✓		
Future performance margin	✓		
Application margins		✓	
Type and number of pumps		✓	
Driver and arrangement		✓	
Minimum tolerable piping loads	✓		
Allowable seal leakage	✓		
Allowable noise	✓		
Minimum pump life	✓		
Mean seal life	✓		
Bearing life and basis	✓		
Mean period between overhauls	✓		
Materials of construction		✓	
Rotor design requirements		✓	
Hydraulic design requirements		✓	
Allowable stresses		✓	
Type of shaft seal		✓	
Type of bearings and lubrication		✓	
Type of coupling		✓	
Type of base		✓	
Piping: systems required and construction		✓	
Auxiliary systems: specification		✓	
Instrumentation		✓	
Material tests			✓
Welding procedures approval			✓
Inspection during manufacture			✓
Component and equipment tests			✓
Painting and inhibiting			✓
Documentation			✓