



Can cause the following problems;

Noisy pump operation
Reduction in performance and efficiency
Mechanical damage to the pump

IMPORTANT

•Ensure NPSH required is available (Assess losses at inlet).

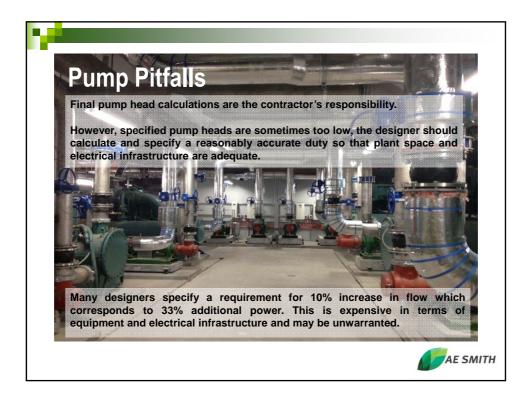
•Provide flooded suction - don't rely on check valves

•Avoid bends, valves or other restrictions at the pump inlet which can cause turbulence

•Provide straight pipe of about 4 diameters length at the pump inlet OR

Use a roll groove suction diffuser to straighten the flow into the pump





Pump Pitfalls

•Some specifications call for insulation of chilled water pumps. We would recommend against this as the insulation restricts access and is likely to be damaged during maintenance. A better solution is to provide a stainless steel drip tray under the pump. This is then drained to a tundish.

•Pumps located too far away from chillers require more pipework and additional isolation valves. This also increases system head and energy consumption

•Insufficient space provided at the pump suction to enable satisfactory performance



