

CH402 CHEMICAL ENGINEERING PROCESS DESIGN

Lab 1: Pump & Piping Design

Read: Project Handout and pages 485 to 507 in PTW.

Problems: None

Objectives (Cadets will be able to):

1. Update the cost index in CHEMCAD.
2. Use CHEMCAD to perform an optimized design and pricing of a section of pipeline.
3. Use CHEMCAD to determine the power requirements and purchased price for a pump.
4. Correctly apply the “Rating” and “Design” modes in the CHEMCAD pipe size and rating (PIPE) tool.

Definitions:

CHEMCAD rating mode, CHEMCAD design mode.

Cadet Notes: