**PBL Quality of Design Grading Sheet**

Names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Score: \_\_\_\_\_/\_200\_\_

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| **Evaluation Criteria** | **Score and Comments** |
| Apparatus fulfills the design requirements. (15 pts.)No leaks present in the system, pipes are properly tight. (10 pts.)Proper amount of Teflon tape used when needed. (10 pts.)Fixed flanges have *not* been turned. (10 pts.)Flanges have *not* been placed in a vice. (10 pts.)Apparatus is structurally sound *without* excessive use of T-slot. (10 pts.)Fittings/valves are tight and installed correctly. (10 pts.)Measurement devices function properly, are installed correctly, and are calibrated adequately. (10 pts.)LabVIEW works to control the pump and display the output of the measurement devices. (10 pts.)Proper heed is paid to entrance length effects. (10 pts.)Valves are easily accessible; displays are easily readable. (10 pts.)The system is constructed so that reasonable sections may be serviced without taking apart large portions of the apparatus. (10 pts.)The design is as safe as possible. (10 pts.)Pump is grounded to the tank. (10 pts.)Teethed wrenches haven’t been used on brass or other hexagonal valves/fittings. (10 pts.)Wrenches/vices haven’t been used on threads. (10 pts.)A minimal number of close nipples have been used. (10 pts.)Upon dismantling, pipes are cleaned of tape, bolts and pipes are returned to proper bins, tools and devices are properly returned, area is cleaned. (25 pts.) |  |