

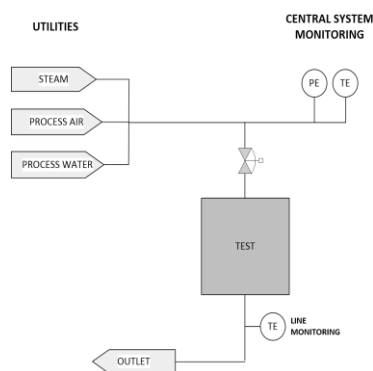
Prototype Performance Test

THE CHALLENGE:

BPI was approached by a client with a new prototype diaphragm. This client sought BPI to compare the test diaphragm to a commercially-available diaphragm on the market to answer:

- Will it seal – pneumatically and hydraulically?
- Is the diaphragm adversely affected by the testing?
- Will the valve bolts require adjustment over their life cycle?

OUR SOLUTION:



BPI designed a performance test for the client's prototype diaphragm, comparing it to commercially available diaphragms across four sizes with respect to multiple performance criteria on a single valve body.

BPI's facility is uniquely equipped to test both multi-use and single-use equipment used in the BioProcess industry. Its flexible design features custom computer controlled process systems, which are configured and programmed to BPI clients' specific needs. In the case of the diaphragm valves, there were three configurations of valves installed. These custom-designed systems utilize BPI's high quality support systems including Clean/Pure Steam, Deionized Water, and Clean Compressed Air. BPI's staff utilized high precision instrumentation and their extensive experience to evaluate the results of the performance test.

THE RESULTS:

Seal integrity was never compromised on the test diaphragm. BPI's testing proved that the test diaphragm exhibited exceptional steam resistance and outstanding sealing properties at the defined bonnet torque values. Out-performing its primary competitor, the test diaphragm was ready to go to market.

For more information on testing and analysis or marketing claim support, please contact:

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