DFP Monthly

May
2009
Volume 4
Issue 1

40 Cedar Street -- Tillsonburg Ontario -- 1(800)265-2656

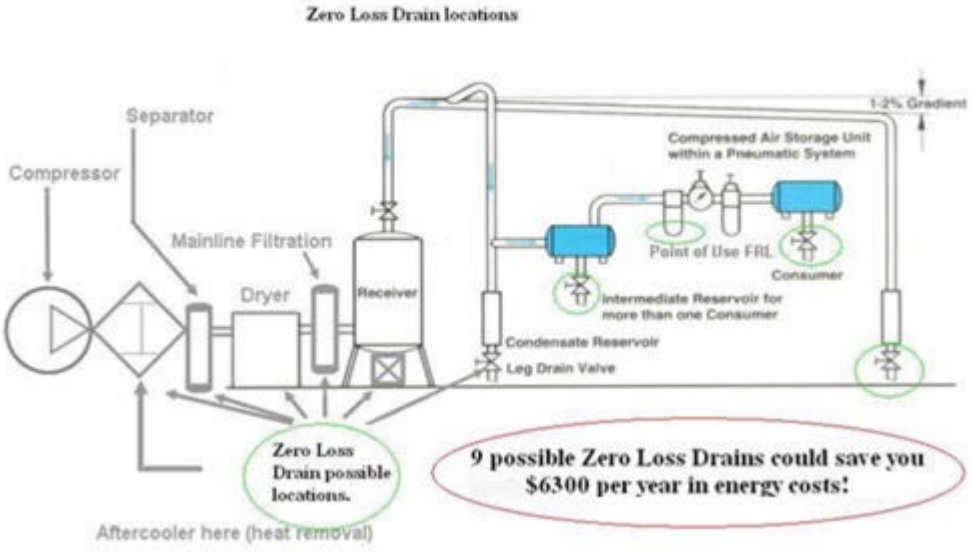
Energy & Cost Savings from Zero Loss Drain

Parker knows that energy costs play a big part in any plant's operating budget. One solution is the Zero Loss Drain from Parker!

Many plants use timed drain valves to remove water and debris from the air lines but this also means more work for the compressor. For example, if a ¼" timed drain valve, operating for 10 seconds, opened every 30 minutes (at $0.05 kWh) it would result in an additional compressor operating cost of $700 per year. If a company had 10 timed drains, we could possibly save them $7000 if they installed the WDV2-425 Zero Loss Drain.

The Zero Loss Drain is an electronically-controlled diaphragm valve that, when activated, will help keep your compressor clear of any dirt and water. At the same time, expensive compressed air is not being wasted. Electronic Demand Drain Valves with Zero Air Loss are suitable for all compressed air system applications from aftercoolers to filters to receivers to refrigerated dryers.

A Typical Compressed Air Supply System



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Hydro-Power Control

Customer Unmet Need:

As operators of Hydro-Electric plants move away from the old style mechanical governors to the new digitally controlled governors, hydraulic control is playing a critical role in this changeover. Furthermore, utilities are demanding tighter control of frequency and voltage variances in power output from these plants for a more consistent power grid.

Solution:

Governor control manufacturers are responding to these needs with more sophisticated PID electronic controls. Higher level hydraulic controls which control wicket gates on dams that regulate water flow, must be capable of responding to these high dynamic controls.

Parker DFP Servo Proportional Valves are well suited to the requirements of these systems. The D05 size D3FP can be used on smaller wicket gate actuators and the larger D91 or D111FP pilot operated versions can be used on the larger actuator systems.

Success Factors:

The preciseness of the DFP valve allows for tight control when diminutive actuator position changes are required during normal operation, as well as, maintaining control when large, emergency shutdown maneuvers are demanded.

The valve can accept a direct 4-20 ma input without a signal conversion card. In addition, there is a 12 pin connection option for full enable / shutdown feature.

This valve can be used to directly control the actuator or can be used to operate the OEMs main-stage valve.

Customer Values:

- The valves ability to accept a 4-20 ma signal reduces the need for a signal conditioning card costing $150 to $500 USD, plus the associated extra wiring.

- Because of the wide band of control from these valves, a larger pilot operated valve can meter with very small input signals eliminating the need for a secondary, low flow servo valve costing $1,500 to $3,000 USD.

- The DFP valves have a standard predetermined power down position eliminating the need for a fault manifold costing $1,000 to $2,000 USD.

For all your hydraulic & pneumatic needs, please contact Dynamic Fluid Products at (800)265-2656