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Neo-Dyn®

Neo-Dyn Switches Provide Safety and Control of Compressor Stations

A Midwestern gas pipeline company has standardized on Neo-Dyn pressure switches for monitoring and control of air compressors at pumping stations. A recent application at a pressure boosting station requiring smaller (10 horsepower) air compressors uses a Neo-Dyn 100P pressure switch to control the turning on and off of two compressors, based on the required pressure in the control system. Used in conjunction with a PLC that alternates the lead/lag compressors for balancing the wear of the two, our model 100P44C5 pressure switches are actually performing the direct control of the system as opposed to a typical larger



system using analog transmitters. For this application, the Engineer selected a higher set point range than he might typically use for the required pressure range of the system as he needed the higher dead band on the reset point. Another selection criterion for the Engineer was the fact that our switches are very repeatable and the do not drift or change, even in the higher pressure ranges. Other manufacturers state their repeatability and accuracy as a percentage of full scale, where Neo-Dyn's are stated as a percentage of set point!

For their larger compressor stations, Neo-Dyn switches are used for monitoring pressure for high and low-pressure alarm and shut down, as opposed to doing the actual control of the compressors as used in the above example.

Several years ago, this company began a reliability program for their critical systems. They discovered the switch points of pressure switches by other manufacturers were drifting and changing due to vibration and ambient or process temperature variations. As these drifting and/or switch point changes were typically found only at the end of the year when they did their annual calibration checks, they determined that the competitor's switches did not pass the consistency and accuracy standards of their reliability program.

In most of their applications, the control and most of the monitoring of their processes is done with analog inputs into a control system or PLC. However, they still required discrete pressure outputs for shut down and safety. They have learned through many years of using ITT Neo-Dyn switches that our products do not drift from original settings, and the switches do not fail. The Neo-Dyn switches may cost marginally more than other switches at first purchase, but they have provided considerable overall cost savings from not needing to replace them as well as the associated cost of labor and repairs as compared to other manufacturers products.

Engineered for life

For more information, please visit www.neodyn.com