



ITT

Neo-Dyn®

Rupture Disc and Compressor Station Monitoring

Protection and monitoring of a rupture disc, in many industries, is crucial for the safety of personnel or to prevent the release of the median into the environment.

In the chemical industry, monitoring the cavity between a rupture disc and a relief valve is mandated by the ASME. In this application, the Neo-Dyn unit is utilized to detect any leakage (pressure) that may occur



through the diaphragm seal. Leakage through the diaphragm will deteriorate the differential pressure required for the diaphragm to operate properly; resulting in failure of the safety system. The Neo-Dyn pressure switch functions as a safeguard to inform an operator of pressure buildup in this cavity via a warning light or, tripping the system before the process goes into catastrophic failure, possibly resulting in the lifting of a relief valve. The chemical industry utilizes a variety of our switches including the 100P and the 122P due to the many different types of wetted materials and agency approvals available that are compatible with their process median.



The HVAC industry incorporates the 130P and 132P as two of the more popular units in order to prevent seizing of the compressor or the release of Freon into the environment in case of system failure. In this application, our unit shuts down the compressor before lifting of the relief valve to prevent the release of Freon into the environment. In a similar application, the switch can also be used as a safeguard to trip the compressor if Freon pressure is too low.



Another option, where a miniature pressure switch is required, is our 106P. This switch has been modified from our aerospace series and is used in applications such as cooling units in Army tanks

In all of the aforementioned applications ITT is the switch of choice due to our resistance to over pressurization, availability of wetted materials, agency approvals and ability to hold a set point. Review your customer base and see if ITT can assist with any such applications.

Engineered for life

For more information, please visit www.neodyn.com