



Kier Cover Safety Interlock Applications

Supplemental Instructions

General

SOR Pressure Switches intended for use in Kier Cover Safety Interlock Service are normally installed to sense vessel pressure. As the vessel is pressurized, the pressure switch actuates. Pressure Switch actuation is designed to prevent accidental opening of the pressurized vessel. (Refer to wiring diagram on General Instructions.) Upon completion of the pressurization cycle, the vessel depressurizes to the point where the vessel can be opened safely and the pressure switch de-actuates to permit opening.

SOR Pressure Switches used in Kier Cover Safety Interlock Service are normally ordered with a tantalum wetted diaphragm. End user preference indicates that tantalum diaphragm material offers the longest service life in this application. If the tantalum

diaphragm is heated by the process liquid during service, a temperature-induced delay may occur. A slow dissipation of diaphragm temperature may cause the pressure switch to remain actuated when vessel pressure has fallen to a level which normally permits safe opening of the vessel. When the tantalum diaphragm cools, it will allow the pressure switch to de-actuate.

If high process temperature delays de-actuation and elimination of the delay is desirable, mount the pressure switch remotely with connecting tubing or piping long enough to allow process and ambient temperature to dissipate before reaching the pressure switch.

