

The Terra Nova Alliance

A FPSO - Floating Production Storage and Offloading - vessel off the coast of St. Johns, Newfoundland

The Rupture Pin valves are installed on a hydraulic accumulator system on the “spider valve” system of the ship. This is a system that is designed to operate at extremely high pressures. The valves are set to relieve at 15,385 psig. The valves were specially designed to be able to recharge the nitrogen in the accumulators through the Rupture Pin valve and to relieve pressure to atmosphere. The previous rupture disk were prematurely failing at the normal operating pressure of 6,000 psig due to pulsation and fatigue.



The second application of the Rupture Pin valve on the Terra Nova FPSO, is our Model D valve. There are 4 - 12 inch Rupture Pin valves on the heating medium relief system. These valves were installed on the Terra Nova in the very beginning, they liked the performance of the valves is why they decided to use the Rupture Pin valve on the hydraulic accumulator system.



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