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Sequence of operation for slow fill manifold from compressor, storage and one bank priority.

When the pressure drops below the slow fill start setting and it is within the slow fill run window (adjustable from 24 hour to 1 hour) the PLC panel will close a dry contact to tell the compressor to start and open V1. Flow will begin flowing from storage through CV2 and the compressor until the storage pressure will not overcome the pressure from the compressor then flow will be from only the compressor. V1 will close when the slow fill manifold pressure transducer (PT1) reaches the temperature compensated pressure (70f @ 3600 psi). V1 will also close if the maximum pressure on (PT1) is reached on the manifold set just below relief valve setting (this is adjustable).

As soon as the V1 valve closes and storage is calling for gas (PT2) based on a hi/low setting the V2 solenoid valve will open to fill the storage vessels to the set pressure compensated to 70F. V2 will close when the storage vessel is full based on Hi/low setting (PT2).

At any time if there is a pressure drop on the slow fill manifold the system will restart the fill cycle and close V2.

If you remove voltage to the system all valves will close for EMERGENCY stop.

The PLC will have a service button to operate both valves for service.