

AMENDMENTS TO THE CLAIMS

Please cancel claims 7 and 16, and amend the claims as follows:

1. (Currently Amended) A control system for controlling fluid flow through a flow line at a wellsite, the control system comprising:
 - a safety valve having a gate;
 - a valve actuator configured to move the gate into a closed position by fluid supplied into the valve actuator and configured to move the gate into an open position by a biasing member disposed in the valve actuator;
 - an electronic controller assembly configured to receive a signal from a transducer connected to the flow line, wherein the signal corresponds to a measured physical property;
 - a valve assembly in communication with the controller assembly; and
 - a fluid drive assembly in communication with the controller assembly, wherein the controller assembly is operable to actuate the fluid drive assembly to supply fluid ~~to~~ into the valve actuator to move the gate ~~to a first~~ into the closed position, and wherein the controller assembly is operable to actuate the valve assembly to ~~actuate~~ release the fluid from the valve actuator ~~to move so that the biasing member moves~~ the gate ~~to a second position~~ into the open position and forces the fluid out of the valve actuator.
2. (Original) The system of claim 1, further comprising a housing for supporting the controller assembly, the valve assembly, and the fluid drive assembly.
3. (Currently Amended) The system of claim 2, wherein the fluid supplied into the valve actuator by the fluid drive assembly is supplied from a reservoir disposed outside of the housing.
4. (Withdrawn) The system of claim 1, wherein the fluid drive assembly is a compressor and the fluid is a pneumatic fluid.

5. (Currently Amended) The system of claim 1, wherein the fluid drive assembly is a pump and the fluid supplied into the valve actuator by the fluid drive assembly is a hydraulic fluid.
6. (Original) The system of claim 1, further comprising a power source for supplying power to the controller assembly, the valve assembly, and the fluid drive assembly.
7. (Canceled)
8. (Original) The system of claim 1, further comprising a housing for supporting the fluid drive assembly, and a filter attached to the housing for filtering fluid entering the housing by the fluid drive assembly.
9. (Withdrawn) The system of claim 1, wherein the fluid is ambient air.
10. (Original) The system of claim 1, wherein the controller assembly is operable to communicate a signal corresponding to the measured physical property to a remote computer system.
11. (Currently Amended) The system of claim 1, wherein the controller assembly is a programmable logic controller, ~~and wherein the valve assembly is operable to release or return fluid from the safety valve for actuating the safety valve to the second position.~~
12. (Currently Amended) A method for controlling fluid flow through a flow line at a wellsite, the method comprising:
 providing a control system comprising a safety valve having a gate, a valve actuator configured to move the gate, a housing, an electronic controller assembly, a fluid drive assembly, and a valve assembly;

supplying fluid ~~to~~ into the valve actuator using the fluid drive assembly to actuate the valve actuator to move the gate into ~~a first~~ a closed position;

monitoring a physical property in the flow line using the controller assembly; and

actuating the valve assembly using the controller assembly to release the fluid from the valve actuator so that a biasing member disposed in the valve actuator moves the gate into an open position and forces the fluid out of the valve actuator ~~actuate the valve actuator to move the gate into a second position~~ based upon a comparison of the monitored physical property to a predetermined condition.

13. (Withdrawn) The method of claim 12, wherein the fluid is a pneumatic fluid disposed external to the housing, and further comprising filtering the pneumatic fluid as it enters the housing by the fluid drive assembly.

14. (Currently Amended) The method of claim 12, wherein the fluid supplied into the valve actuator by the fluid drive assembly is a hydraulic fluid disposed in a reservoir within the housing that is in fluid communication with the fluid drive assembly.

15. (Original) The method of claim 12, further comprising measuring the physical property using a transducer configured to communicate a signal corresponding to the measured physical property to the controller assembly.

16. (Canceled)

17. (Withdrawn) The method of claim 12, wherein the fluid is a pneumatic fluid, and wherein the fluid drive assembly is a compressor.

18. (Currently Amended) The method of claim 12, wherein the fluid supplied into the valve actuator by the fluid drive assembly is a hydraulic fluid, and wherein the fluid drive assembly is a pump.

19. (Original) The method of claim 12, further comprising communicating a signal from the controller assembly to a remote computer system, wherein the signal corresponds to an operational characteristic of the safety valve.

20. (Original) The method of claim 12, further comprising actuating the safety valve by communicating a signal from a remote computer system to the controller assembly.

21. (Currently Amended) A method for controlling fluid flow through a flow line at a wellsite, the method comprising:

providing a control system comprising a safety valve having a gate, a valve actuator configured to move the gate, and a sensor;

actuating the valve actuator to move the gate into a closed position by supplying actuator fluid ~~to~~ into the valve actuator;

monitoring fluid pressure in the flow line using the sensor while maintaining the gate in the closed position; and

actuating the sensor using fluid pressure in the flow line, thereby releasing the actuator fluid from the valve actuator ~~and moving~~ so that a biasing member disposed in the valve actuator moves the gate into an open position and forces the actuator fluid out of the valve actuator to relieve fluid pressure in the flow line.