

What is it?

The SDR suction controller is a spring loaded diaphragm valve which is opened by the suction pressure of a metering pump.

What does it do?

The SDR will allow the metering pump to work in its optimum environment by creating a constant suction pressure regardless of system dynamics.

What happens without it?

Metering pump systems operating without the benefits of a SDR could be subject to unwanted siphoning, capacity variations due to suction conditions, or loss of stored process fluid during a suction line rupture.

How does it work?

As the metering pump conducts a suction stroke, the SDR diaphragm is lifted off of the seat against its spring tension. The correct amount of process fluid is allowed to pass, creating accurate flow. Maximum vacuum can be set by an adjustable setscrew located in the SDR.

Where does it go?

The desired location of the SDR depends solely on system design. In a suction lift application the SDR will be located adjacent to the metering pump. In a flooded suction application the SDR's are located close to the storage tank to prevent chemical loss during a line rupture.

What pumps benefit the most?

Regardless of pump model or manufacturer, all pumps operating in the range of 0-132 GPH will benefit from the SDR.



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