



Spring Actuated Emergency Relief Valves

Weir SPM Spring Actuated Emergency Relief Valves provide over-pressure protection for pumps, flow lines, pressure vessels and other equipment operating under a variety of pressures and flow conditions.



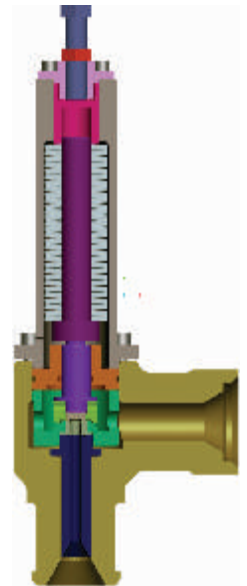
Weir SPM's Spring Actuated Emergency Relief Valves are field-tested products that have long been providing reliable over-pressure protection for well service providers.

Weir SPM Emergency Relief Valves provide over-pressure protection for pumps, treating lines, pressure vessels and other equipment operating under high pressure, high flow conditions. The valves are compact, simple to operate and rely on the system's hydraulic pressure to open when a preset pressure is exceeded and automatically snap shut when the pressure drops.

The valves are externally adjustable to operate from low pressure/medium flows. Unlike shear relief valves, which use common nails to trigger the valve, Weir SPM's Emergency Relief Valves utilize an internal spring to activate opening and closing.



Spring actuated relief valves are direct acting, relying on the system's hydraulic pressure to open when the preset force of the spring is exceeded.



3" Spring Actuated Relief Valve Diagram

Weir SPM Emergency Relief Valves are available in 2" and 3" models. Operating pressures of each model range from 0 psi to 20,000 psi. The 3" models have optional 0 psi to 5,000 psi versions. Both standard, sour gas and certified cold temperature models are available, as well as models with DNV approval.

Weir SPM Emergency Relief Valves are manufactured from high quality materials and are subject to Weir SPM's stringent quality assurance system. The valves conform to the conditions of design and performance of API RP520.

As flow requirements increase, then multiple valves may be preferred, and are permissible. You may find that two of the 2" valves are a better economic combination than one 3" valve. You may also find that multiples of the 3" are required. Multiples of either size are allowed as long as the valves are set to activate reasonably close (within 10%) of each other.

For example, if a customer requires a flow of 400 GPM, he may choose to use three 2" spring-operated valves or one 3" spring-operated valve. (See maximum capacity below.)

Approx. Flow Rate Capacity

2"	150 GPM max
3"	430 GPM max

Weir SPM's Emergency Relief Valves are available in 2" and 3" models, and in various pressure ratings and inlet and outlet configurations, including Line Pipe Thread.

Product Offering

2"

- 1502 M Inlet, Line Pipe Thread Outlet
- 1502 M Inlet, 1502 F Outlet
- 1502 M Inlet, 1502 F Outlet, Sour Gas
- 2002 M Inlet, 2002 F Outlet
- 2202 M Inlet, 2202 F Outlet, Sour Gas

3"

- 602 M Inlet, 602 F Outlet
- 602 M Inlet, 1502 F Outlet

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