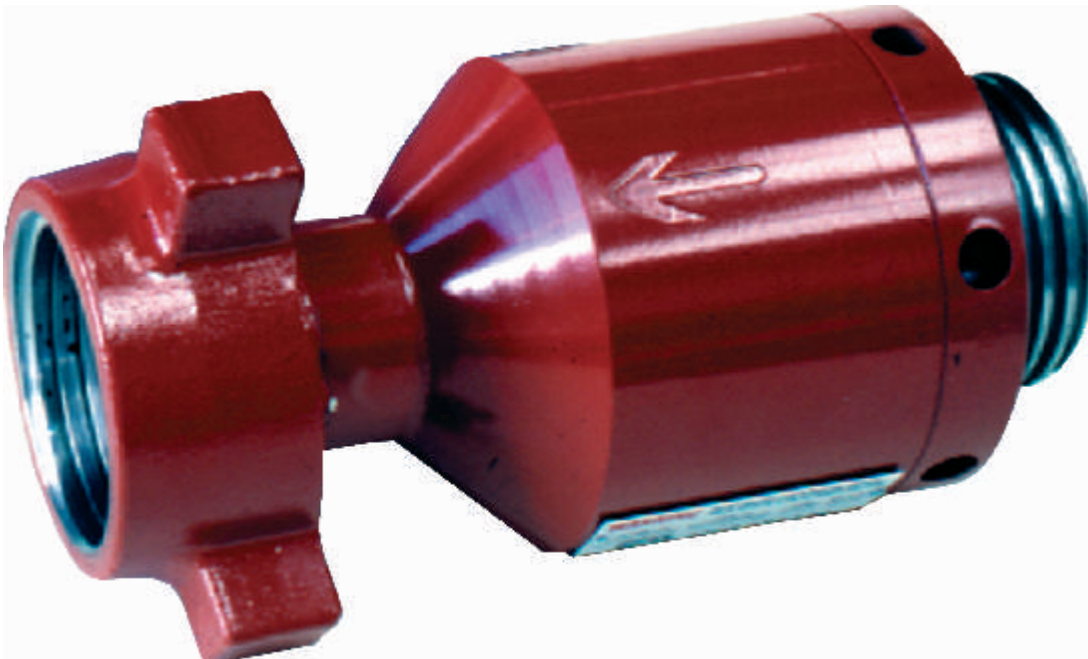
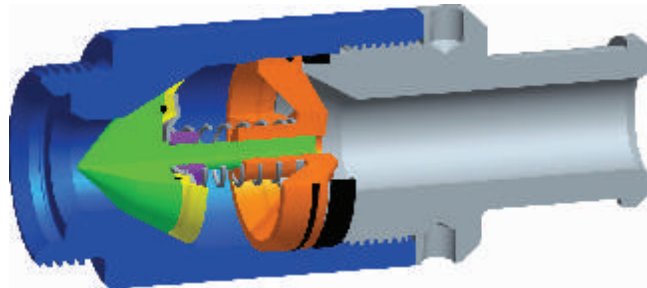




## Dart Check Valve

**Weir SPM's Dart Check Valve is utilized in a treating line to allow flow to the well but isolate any back flow upstream of the valve, providing added safety in high pressure flow operations.**





**Weir SPM offers a complete line of check valves, including a Dart Check Valve to be utilized in various well service applications, including H<sub>2</sub>S service.**

*The spring loaded dart (green) is designed to be overcome by the pressure of the normal fluid flow, but will spring back and seal when pressure drops or flow begins to reverse upstream.*

Weir SPM's Dart Check Valves are flow control devices that permit flow in one direction but stop flow in the opposite direction. Generally used in well service applications, the dart check valve is placed in the treating line to allow flow to the well but isolates any back flow upstream of the valve. This provides a safety device at various locations in the flow line and assures that pressure and fluid cannot backup into the manifold area or into the pumps, causing damage to equipment. The Weir SPM Dart Check Valve is available for standard service and sour gas (H<sub>2</sub>S) environments.

Dart check valves are available in various pressure ranges for well service applications such as acidizing, cementing and fracturing. These valves are also designed for use with slick water frac fluids. The valve is constructed of a two-piece body that houses an inline spring loaded dart. When fluid enters from the inlet side, it will overcome the low spring force on the dart. The dart will travel away from the inlet and allow the fluid to flow around towards the outlet. When fluid flow stops, the light spring force closes the dart against its seat. If the pressure on the inlet side drops below that of the outlet, the fluid is kept from reversing its flow by the dart. The dart seal acts as a backup and creates a bubble-tight seal to eliminate any back flow.

Valve Size	Inlet	Outlet	Upstream / Downstream	NSCWP* (PSI)	Service
1" 1502	Female	Male	Reverse Flow	15,000	Standard
1" 1502	Female	Male	Standard Flow	15,000	Standard
1½" 1502	Male	Female	Reverse Flow	15,000	Standard
1½" 1502	Female	Male	Standard Flow	15,000	Standard
2" 1502	Male	Female	Reverse Flow	15,000	Standard
2" 1502	Female	Male	Standard Flow	15,000	Standard
3" 1502	Male	Female	Reverse Flow	15,000	Standard
3" 1502	Female	Male	Standard Flow	15,000	Standard
2" 1502	Male	Female	Reverse Flow H2S	10,000	H2S
2" 1502	Female	Male	Standard Flow H2S	10,000	H2S
3" 1502	Male	Female	Reverse Flow H2S	10,000	H2S
3" 1502	Female	Male	Standard Flow H2S	10,000	H2S

**Dart check valves are available in 2" and 3" sizes in standard service and sour gas service models, in pressures up to 15,000 psi.**

**Various configurations are offered including wing-ahead and thread-ahead models for standard and reverse flow applications.**

\*Non-Shock Cold Working Pressure

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