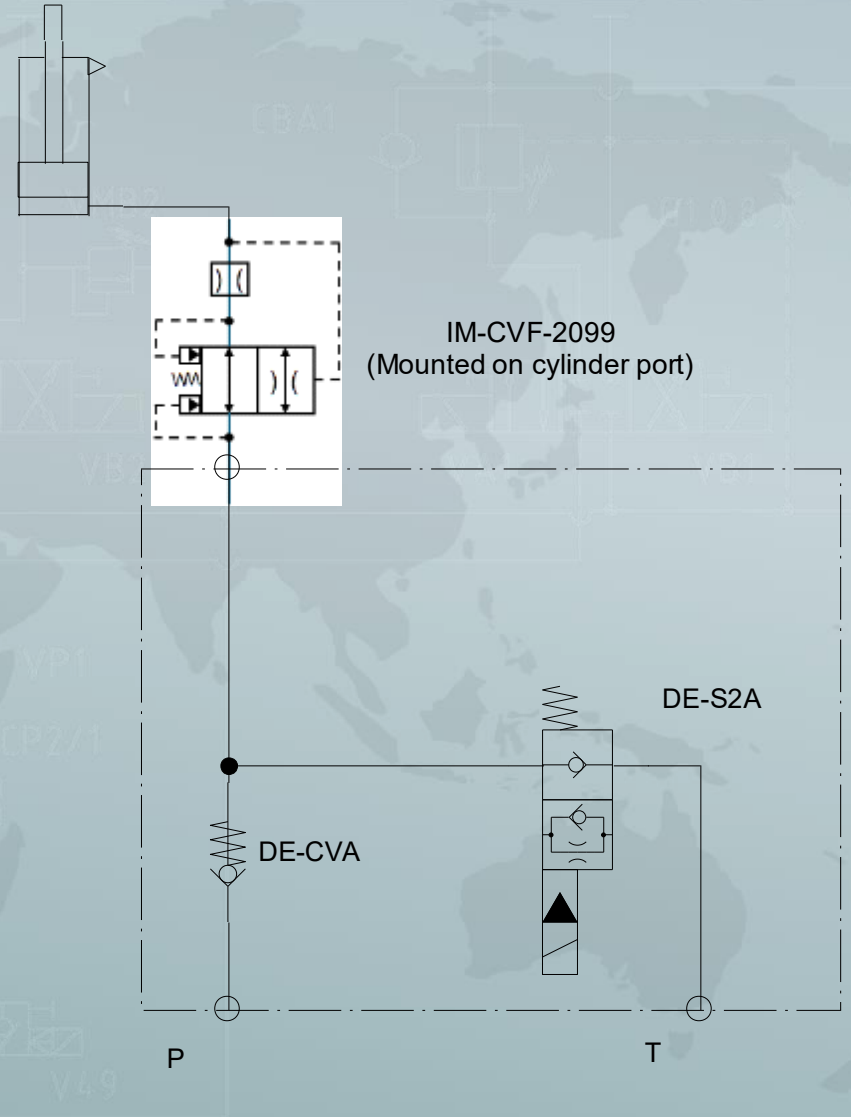


IM-CVF-2099

- Functions like a velocity fuse, except that it will allow metered flow to pass through when the fuse shifts.
- Engineered to safeguard your hydraulic system and operations. In the event of catastrophic hose or fitting failure, the fuse immediately activates to stop rapid oil flow, ensuring the attached cylinder maintains a safe, controlled descent rather than free-falling.



IM-CVF-2099 Hydraulic Velocity Fuse

The IM-CFV-2099 is a hydraulic flow restrictive velocity fuse. Its primary function is a safety and flow-control device designed to automatically restrict fluid flow when the flow rate exceeds a predetermined threshold. Its primary purpose is to prevent uncontrolled actuator movement or loss of system fluid in the event of a hose rupture, line break, or downstream failure.

Operating Principle

Under normal conditions, fluid flows freely through the fuse with minimal pressure drop. The internal poppet is held open by a spring and balanced hydraulic forces. When flow increases suddenly—such as during a line failure—the velocity (flow rate) through the orifice rises. Once this rate exceeds the fuse's calibrated limit, the resulting pressure differential across the internal orifice overcomes the spring force, shifting the internal element to a restricted position. This action significantly reduces downstream flow, isolating the failure and maintaining pressure and fluid in the upstream portion of the circuit.

Contact Your Delta Power Specialist




David Yale

Sales Engineer – Delta Power

“Let’s discuss how this CVF can optimize your system. Contact me to get started on a technical consultation.”

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