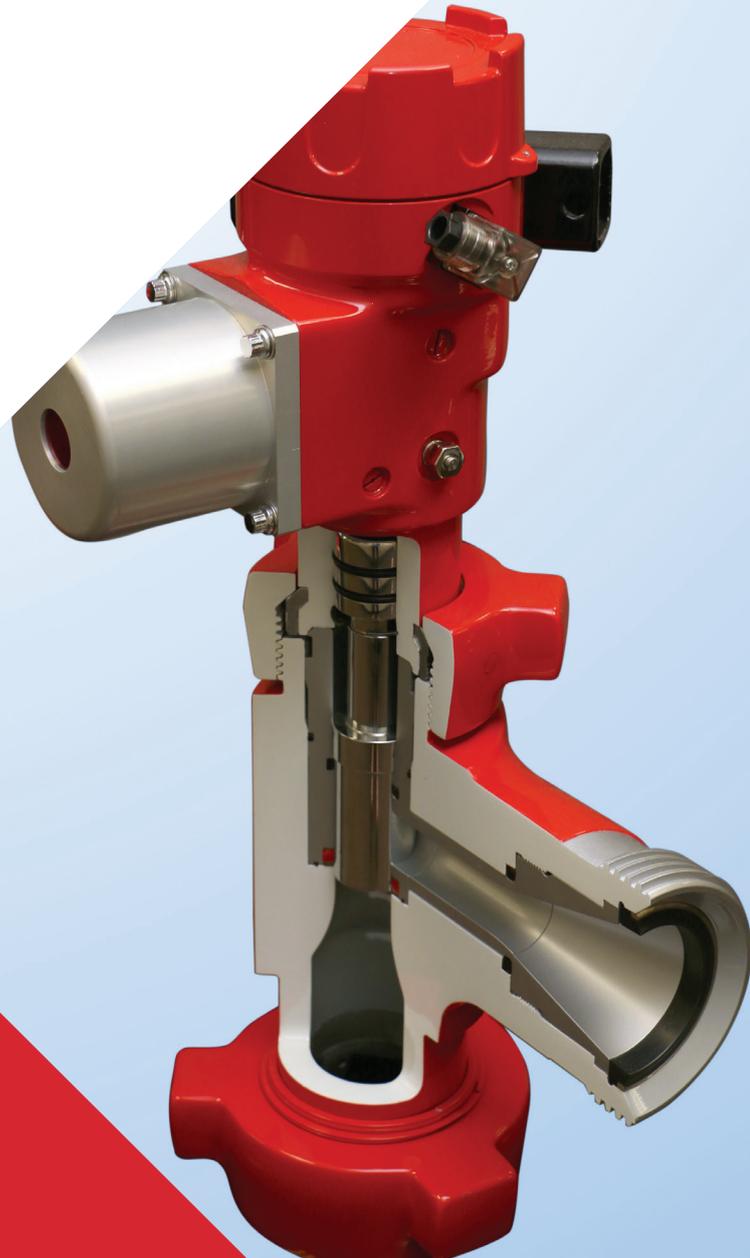


ePRV

Electronically Controlled
Pressure Relief Valve



Electronically controlled pressure relief valve (ePRV)

The TechnipFMC electronically controlled pressure relief valve (ePRV) automatically reseats after an over pressure event, improves reliability and accuracy while reducing personnel exposure at the wellsite. Unlike other full opening pressure relief valves, the ePRV is electrically powered and requires no gas bottles or hoses, reducing the exposure of your people and protecting your equipment.



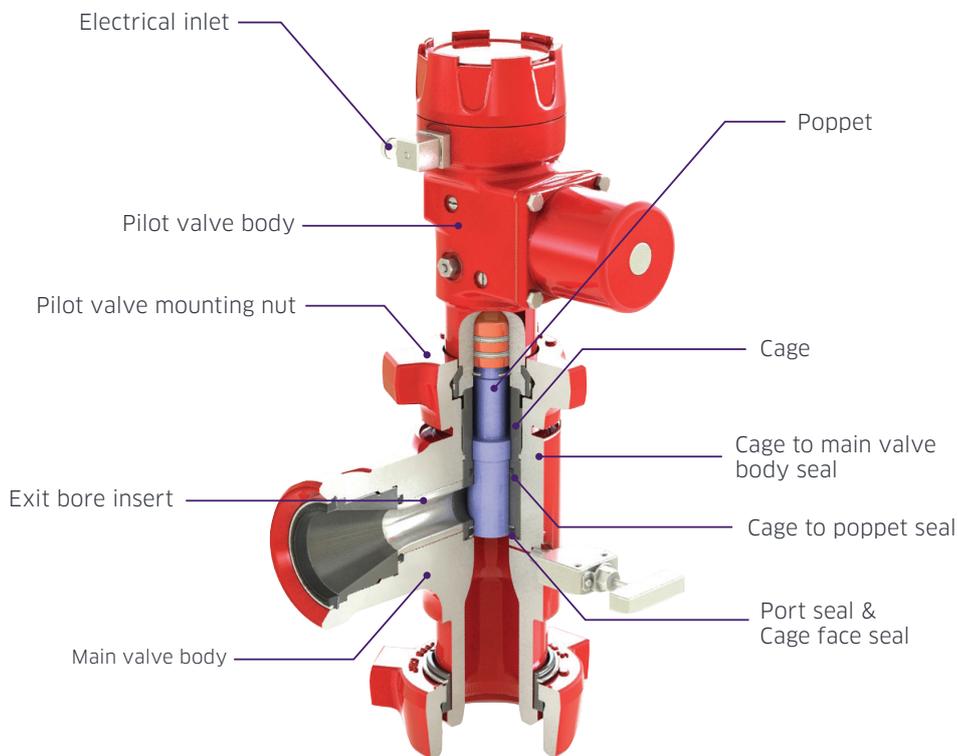
Solution engineered

The TechnipFMC Electronically Controlled Pressure Relief Valve (ePRV) is solution engineered with simplicity, reduced exposure and reliability in mind.

With the ability to re-seat itself without manual intervention, your personnel stay out of the red zone, resulting in less personnel exposure, less downtime and improved production. Unlike other full-opening pressure relief valves, the ePRV is electrically powered and requires no gas bottles or hoses, improving the protection of your people and equipment.

The ePRV will accurately and rapidly relieve the full line pressure allowing you to trouble shoot the root cause of the incident. It also comes standard with Weco® end connections, which are known for their proven reliability.

With hydraulic fracturing operations becoming more sophisticated and capital intensive, the pressure pumping liability risks have never been higher. Equipment uptime and reducing personnel exposure have become greater priorities across all basins. The ePRV will improve your bottom line performance and help protect your people and equipment.



ePRV 3D view

Key features

- ▶ Requires no gas bottles or hoses
- ▶ Does not require a separate gas control panel
- ▶ Not subject to change pressure due to gas law effect when ambient temperatures change
- ▶ Operated by hydraulic piloting system as opposed to gas system
- ▶ Standard piloting systems requires only 24 VDC, 2 amp signal to operate (consult factory for other available voltages)
- ▶ Main valve uses proven Weco® standard tee body forging
- ▶ If power is lost, the ePRV failure mode is to pop open unless battery back-up is employed
- ▶ Reseats automatically after line pressure is fully relieved (operations terminating relief device)
- ▶ Easy field-replaceable main valve internal components
- ▶ Visual indicator allows you to see when the valve is open/closed
- ▶ Patents Pending

Specifications

Configuration

- ▶ Standard Weco® Union Ended Connections
 - **a.** Inlet: 3" Figure 1502 male sub and nut
 - **b.** Outlet: 3" Figure 1502 female sub
- ▶ Cold working pressure of 15,000 psi
- ▶ Main valve bore: 1.75"
- ▶ Main valve and pilot valve body made from high strength low alloy steel
- ▶ Piloting system internal components employ precipitation hardened stainless steel materials
- ▶ Explosive decompression resistant intervals
- ▶ Liquid nitride hardened main valve poppet

Installation

- ▶ Standard Weco® 3" Figure 1502 connections
- ▶ For use on main flowlines between missile trailer and well
- ▶ Consult the factory for ePRV systems employing the following:
 - **a.** Isolation Valves
 - **b.** Lifting Cages

Design Rating

- ▶ **Weight:** 157 lbs (71 kg)
- ▶ **Max. Working Pressure:** 15,000 psi (103.4 MPa)
- ▶ **Operating Temperature:** -40 to 180 °F (-40 to 82 °C)
- ▶ **Envelope Dimensions:**
 - **Height:** 24.7" (628 mm)
 - **Width:** (Outlet Side): (Outlet Side): 12.9" (328 mm)
 - **Depth:** (Nut Clearance): (Nut Clearance): 11.3" (288 mm)
- ▶ **Part Number:**
 - **ePRV Assembly:** P557316
 - **Repair Kit:** P557277

Interfaces

- ▶ **Pilot valve electrical connector:**
 - **Height:** 24.7" (628 mm)
 - **Width:** (Outlet Side): (Outlet Side): 12.9" (328 mm)
 - **Depth:** (Nut Clearance): (Nut Clearance): 11.3" (288 mm)
- ▶ **Part Number:**
 - DIN 43650 Form "A"
 - (ISO 4400, EN175301-803:2000)

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