



# *Latching Solenoid Valve Assembly*

Weatherford's latching solenoid valve assembly operates as a three-way, normally closed device to provide precise control of diaphragm-type valves that regulate air, inert gases, fuel gas, water, oils, and other media. Contained in a sturdy enclosure, the solenoid valve assembly can be mounted to pressure tubing lines, away from the controller. This placement flexibility makes the latching solenoid valve assembly useful in sour-gas applications, as toxic or corrosive fumes can be vented far from the controller to protect electronic integrity.

When the valve is in the de-energized state, the *in* port is closed so that media enters the *cylinder* port and exits from the *exhaust* port. When the valve is energized, the *exhaust* port is closed while the media enters the *in* port and exits from the *cylinder* port. Typical uses for this flow pattern include air cylinder applications.



## *Applications*

- Use with any manufacturer's remote terminal unit (RTU)
- Sour-gas wells

## *Features, Advantages and Benefits*

- The latching solenoid valve assembly is adaptable to any manufacturer's RTU with the same outputs, simplifying inventory control and minimizing costs.
- This unit is mounted away from the controller, allowing the device to be placed where needed, providing it is located in areas where the solenoid has been classified for maximum placement flexibility, and has accessibility for maintenance.
- The latching solenoid valve assembly allows sour gas to be vented far from the RTU controller, preventing damage to controller circuitry, and promoting operator comfort and safety.

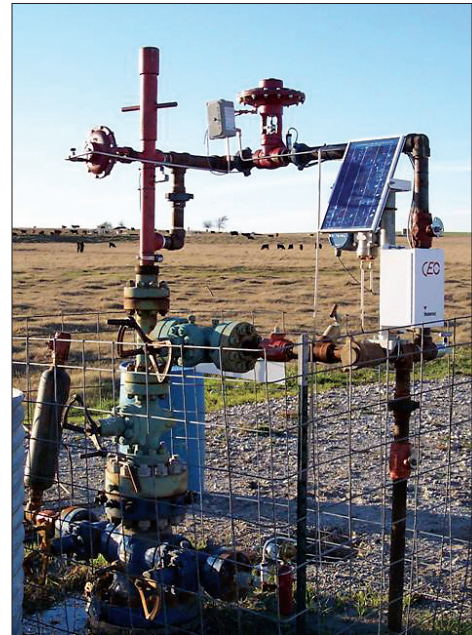


## Latching Solenoid Valve Assembly

### Specifications

Standard voltages	6 VDC to 12 VDC
Power	6W
Lead termination	Flying leads
In\CYL	1/8-in. NPT
Operating temperature	-4° F (-20° C) non-condensing to +122° F (+50° C)
Pulse width	40 ms to 100 ms
Coil resistance	60 Ohms
Vent port	Sized for 1/8-in ID., 1/4-in. OD Flexible tubing
Minimum pressure	1 psi 6.9 kPa
Maximum pressure	60 psi 413.7 kPa

For continuous sour-gas fuel-gas applications, internal components may require upgrading. Please contact Weatherford for these specifications.



Latching solenoid valve in use on Barnett Shale well with RepidFlo™ plunger and CEO™ Three Plus Controller.

### Certifications

- The latching solenoid valve assembly is certified for Class I, Division 1 or 2, Zone 1, ATEX.

### Ordering and Mounting Information

- Order PC02-00322-00 solenoid valve, 6 VDC, 3-wire.
- The latching solenoid valve assembly may be mounted to pressure tubing lines. When mounting the solenoid enclosure, ensure that wiring conduit and vent tube do not put strain on pressure tubing lines.