

RPV Series Wireline Retrievable, Injection-Pressure Pilot Operated Valve (1-in. OD)

Provides late-life implementation for intermittent gas lift operations to extend gas lift operations for onshore unconventional wells

Applications

- Onshore wells requiring wireline retrievable equipment
- Conventional, intermittent gas lift applications and chamber lift
- Can be used for plunger-assisted gas lift (PAGL) operations in combination with a plunger

Features and Benefits

- Provides optimum injection cycles through the valve spread managed by a control port to enable maximum production rates in intermittent applications
- Spring-loaded pressure regulating mechanism adds simplicity to the valve design and reduces the possibility of nonproductive time
- Standard dimensional design compatible with all manufacturers' gas lift mandrels that meet American Petroleum Institute (API) 19G1 standards and provides operational flexibility for all applications
- Valve can be manufactured from various materials to fit well conditions and reduce nonproductive time

Tool Description

The Weatherford McMurry-Macco® RPV series gas lift valve is a 1-in. nominal outside diameter (OD), wireline retrievable, injection-pressure pilot operated gas lift valve that is primarily controlled by the injection gas pressure and is specially designed for intermittent gas lift operations that are required to inject gas from the casing annulus into the tubing.

Intermittent gas lift requires that a large volume of gas be injected rapidly into the tubing for short periods of time to displace a slug of fluid from the point of injection to the surface. The control of gas during this cyclic operation is enhanced by the valve's ability to control spread (difference in valve opening and closing pressure) and maintain a large primary injection port for instantaneous gas injection.



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Specifications

Assembly Number	0105-2NN
Opening Pressure PSI	200 – 2200 psi
Valve Max OD (without latch)	1.00-in. (25.4 mm)
Latch Required	Integral to Valve Assembly
Valve Overall Length (with latch)	20.53-in. (521.5 mm)
Material	R405 Monel 316SS

