

RO-2HV Series Orifice Gas-Lift Valve

Provides enhanced performance to maximize the production rate and reduce nonproductive time

Applications

- Wells requiring equipment to be wireline retrievable
- Wells that require high injection rates to maximize production rates
- High-profile wells with high intervention cost

Features and Benefits

- The complete assembly has been flow-performance tested and provides predictable gas passage for maximum well productivity.
- The valve can be manufactured from various materials and customized to fit well conditions.
- Integral reverse-flow check valve provides a barrier to tubing-to-casing communication for well containment.
- The assembly can be equipped with the Weatherford QS-type reverse-flow check valve, which has a combination modified-PTFE and metal-to-metal seal, or the Q-type reverse-flow check valve, which has a strictly metal-to-metal seal. This enables optimal performance, customized for specific well conditions.
- An aerodynamic check dart—designed for proven flow performance from computational flow dynamics and physically tested—provides maximum gas passage and erosion resistance for maximum production rate and reliability.
- The RO-2HV valve is compatible with all manufacturers' gas-lift mandrels that meet American Petroleum Institute (API) 19G1 standards.

Tool Description

The Weatherford RO-2HV gas-lift valve is specifically designed for deepwater or other high-profile well applications. It is a wireline-retrievable orifice valve with a 1 1/2-in. nominal outside diameter (OD). The valve has been flow-performance and erosion tested for maximum performance. Depending on operator preference and specific well conditions, the assembly can be equipped with the Weatherford QS-type reverse-flow check valve, which has a combination modified-PTFE and metal-to-metal seal, or the Q-type reverse-flow check valve, which has a strictly metal-to-metal seal. These check valves were designed by applying computational flow-dynamics analysis and physical testing to maximize gas-passage capability and erosion resistance.

Weatherford RO-2HV gas-lift valves can be provided to meet API 19G2 V-1 certification, which is currently the highest standard in the industry.



Cutaway of RO-2HV gas-lift valve



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Specifications

Valve Model	Valve Model Number	Latch Type	Valve OD	Port Size
RO-2HV	0242-XXX	RK	1.50 in. (38.10 mm)	3/16 in. (4.76 mm)
				1/4 in. (6.35 mm)
				5/16 in. (7.94 mm)
				3/8 in. (9.53 mm)
				7/16 in. (11.11 mm)
				1/2 in. (12.70 mm)

