



# RO Series Orifice Valves

Weatherford's McMurry-Macco RO Series valves are wireline retrievable, single-point-injection orifices. A replaceable orifice or port controls the volume of gas through the open valve into the production conduit. The spring-loaded, dual-seating, reverse-flow check valve is an integral part of the valve. This design has an elastomeric seal (acting as the primary seal) for low differential pressures. For higher differential pressures, a metal-to-metal seal is established to insure reliability and acts as the secondary seal.

For High injection rates, the RO-B Series Orifice Valves feature inlet ports and reverse-flow checks that are engineered for maximum flow efficiency.

### Features

- Stainless steel or Monel® materials standard, other materials available upon request
- Orifice sizes from 1/8" to 1/2" diameter ports (RO Series)
- Orifice sizes up to 3/4" diameter ports (RO-B Series)
- Spring loaded, reverse-flow check valve (RO Series)
- Spring loaded, high capacity, reverse-flow check valve design (RO-B Series)
- Spring loaded, dual checks available (RO-DC Series)
- Available with optional special corrosion and abrasion resistant coatings
- Standard Nitrile packing element system with other material available

### Benefits

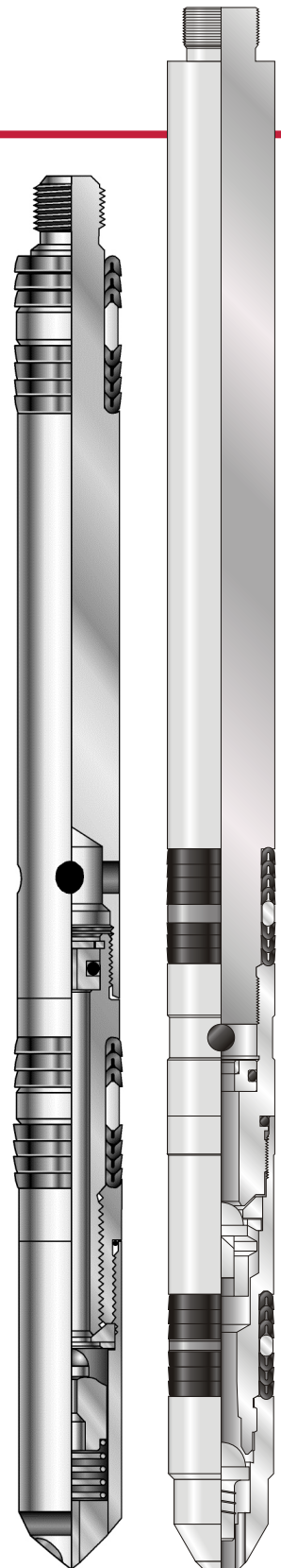
- Flow capacity governed by orifice size
- Replaceable floating orifice
- Higher gas injection rates attainable with RO-B Series
- Dual check valves for increased reverse flow prevention

### Applications

- Used to establish communication between the tubing and annulus during circulating operations
- Single-point, continuous flow completions
- Used to control stable injection at operating valve depth

Valve Model	Valve OD (in.)	Valve OD (mm)
RO-1	1.000	25.40
*RO-1BL	1.000	25.40
RO-1B	1.000	25.40
RO-2	1.500	38.10
RO-2B	1.500	38.10
RO-2DC	1.500	38.10

\*Integral Bottom Latch



RO-1

RO-2BDC