

OM-21R-B

Barrier Series single-point-injection orifice gas lift valve

APPLICATIONS

- Tubing or annular flow
- Continuous flow gas lift production
- High-performance gas lift installations

BENEFITS

- Enhances safety and wellbore integrity
- Reduces downtime with reliable, robust performance
- Lowers costs with versatility and efficiency
- Uniformly operates over a series of injection pressures to increase production

FEATURES

- Field-proven design and operation
- Qualification to API 19G2 V1 standard
- Corrosion resistance through nickel alloy construction
- Premium specification nonmetallic PTFE-based seal stack
- Barrier-qualified reverse-flow check valve system that provides robust seal between tubing and casing annulus
- Compatible with Camco* gas lift and subsurface safety systems' standard and select sidepocket mandrels

OM-21R-B Barrier Series single-point-injection orifice gas lift valves are used for continuous flow gas lift production applications. Based on field-proven Camco systems technology, these 1-in-OD retrievable valves feature a barrier-qualified, integral reverse-flow check valve.

An integral choke controls flow through the normally open gas lift valve into the production conduit.

The barrier gas lift valve's design is based on Schlumberger traditional unloading and operating gas lift valves, which incorporate a high-specification, metal-to-metal back check sealing module that has been developed and tested to meet strict quality, leak-rate, and performance standards. The check design incorporates enhanced geometry to minimize erosion while maintaining dart stability during high-rate operations. This increased performance and reliability enables the barrier gas lift valves to be installed as a well barrier element.

Operation

Installed in a side pocket mandrel, the injection gas enters the valve through the external ports between the valve seals and travels through the choke and down past the reverse-flow, barrier check valve module.

OM-21R-B Valve Specifications

OD (not including latch), in	1
Length (not including latch), in [mm]	12.784 [324.714]
Max. valve pressure rating, psi [MPa]	10,000 [68.9]
Max. valve operating temperature rating, degF [degC]	350 [177]
Orifice size range, in	1/64 to 2/64

Materials

Body parts	MONEL® 400 and K-500, INC 925 and 718
O-ring seals	Aflas® with PEEK® backups
Seat	Tungsten carbide
Seal stack	PTFE seal stack with energizing rings and carbon-filled PEEK backup rings
Back check dart and seat	Stellite®

Secondary accessories

Latch	BK-2 series
Running tool	JK
Pulling tool	1¼-in JDC
Kickover tool	OK series
Mandrel types	K series (KBMG, KBMM, KBMM-R, and KBG)



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