

O-21R-B

Single-point-injection orifice gas lift valve

APPLICATIONS

- Continuous-flow gas lift production
- High-reliability wellbore integrity

BENEFITS

- Enhances safety because wellbore integrity is ensured during shut-in periods
- Lowers costs because a single valve provides flexible operating ranges over a series of injection pressures
- Reduces downtime because of reliable performance

FEATURES

- 1½-in OD
- Qualification to API Specification 19G2 V1, ISO 17078-2 V1, and barrier standards
- Field-proven design and operation
- Corrosion resistance through stainless steel or nickel alloy construction
- Barrier-qualified reverse-flow check valve system that provides positive seal between tubing and casing annulus
- Usable with Camco* gas lift and subsurface safety systems' standard and select side pocket mandrels

Schlumberger O-21R-B Barrier Series single-point-injection orifice gas lift valves are used for continuous-flow gas lift applications. An integral choke controls the flow of gas through this normally open valve into the production conduit. The valves also have a floating choke. Based on field-proven Camco systems technology, these valves also contain a barrier-qualified, positive-sealing, integral reverse-flow check valve.

Operation

Injection gas enters the valve through the external ports between the valve packing sets and then travels through the choke, past the reverse-flow barrier check valve, and into the production conduit.

O-21R-B Valve Specifications

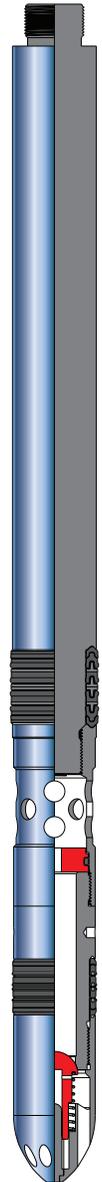
OD (not including latch), in	1.500
Length with latch, in [mm]	28.524 [724.510]
Operating pressure (max. unloading differential), psi [kPa]	10,000 [68,947.6]
Max differential pressure across check section, psi [kPa]	10,000 [68,947.6]
Max. temperature, degF [degC]	350 [177]
Min. temperature, degF [degC]	50 [10]
Orifice size range, in	⅝ ₆₄ to ⅜ ₆₄

Materials

Body parts	MONEL® 400 and K-500
O-rings and seals	Viton®
Bellows	Not applicable
Seat/venturi	MONEL K-500
Packing	Modified Campac carbon and moly-filled Teflon® with PTFE/carbon fiber/graphite filled PEEK® backup and MONEL K-500 retainer ring

Secondary accessories

Latch	RA, RK, and RK-1 latch, depending on type of mandrel
Running tool	JC-3 and RK-1
Pulling tool	2-in JDC and 1½-in JDS
Kickover tool	L, L2-D, OM series, and TPD, depending on type of mandrel
Mandrel series	MMA, MMG, and MMRG



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