

Conventional Injection-Pressure-Operated Valves

Gas lift valves for continuous or intermittent tubing flow

APPLICATIONS

- Gas lift service
- Continuous or intermittent tubing flow

ADVANTAGES

- Capable of operating with production or injection pressure
- Integral reverse-flow check valves or floating valve seat design

As part of Camco* gas lift and subsurface safety systems, conventional injection-pressure-operated gas lift valves are normally used for injection-pressure-operated gas lift production with continuous or intermittent tubing flow. A nitrogen-charged, multi-ply MONEL® bellows provides the force necessary to maintain these valves in a normally closed position.

This line of valves includes 5/8-in [15.9-mm] OD J-50 valves, 1-in [25.4-mm] OD J-40 valves, and 1½-in [38.1-mm] OD J-20 valves. The J-50 valves have an integral reverse-flow check valve while the J-40 and J-20 valves have floating valve seats. The J-40 and J-20 valves operate with either production or injection pressure. When used with the appropriate conventional mandrel and reverse-flow check valve, the J-40 and J-20 series valves can be used for either tubing or annular flow.

Port sizes

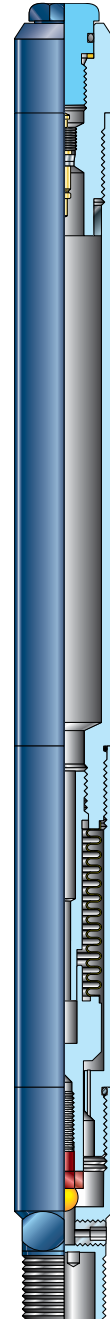
The port sizes available for the 5/8-in OD J-50 valves are 1/8, 5/32, 3/64, and 1/4 in [3.2, 3.9, 5.1, and 6.4 mm].

Port sizes are available for the 1-in OD J-40 valves in 1/16-in [1.6-mm] increments from 1/8 to 3/8 in [3.2 to 9.5 mm].

Port sizes are available for the 1½-in OD J-20 valves in 1/16-in increments from 3/16 to 1/2 in [4.8 to 12.7 mm].

Operation

In injection-pressure-operated gas lift applications, injection gas enters the valve and acts on the effective bellows area. As injection pressure overcomes the precharged nitrogen pressure in the bellows, the bellows is compressed and lifts the stem tip off the seat. Injection gas then flows through the seat, past the reverse-flow check valve, and into the production conduit.



J-40 valve.

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Engineering Data for Conventional Injection-Pressure-Operated Valves

Type	OD, in [mm]	Connecting Thread, in - TPI	Reverse-Flow Check Valve	Mandrel
J-50	0.625 [15.9]	0.250 - 18 NPT	Integral	†
J-40	1.000 [25.4]	0.500 - 14 NPT	BF, B-1	B, B deflector lug, BR deflector lug
J-20	1.500 [38.1]	0.500 - 14 NPT	CF, J-20	C Series

†Contact your Schlumberger representative.

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