



INJECTION PRESSURE OPERATED VALVES

JM-BK INJECTION PRESSURE OPERATED VALVE

Product No. 1001

JM-BK-1 INJECTION PRESSURE OPERATED VALVE

Product No. 1011

JM20-R INJECTION PRESSURE OPERATED VALVE

Product No. 2004

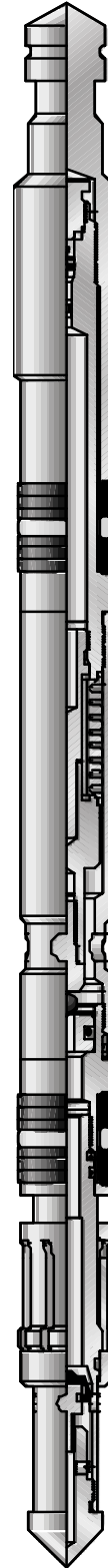
DESCRIPTION

The wireline retrievable Injection pressure operated gas lift valves are primarily controlled by injection gas pressure. The valves are installed in a side pocket mandrel and used to control injection gas pressure and its flow from either the annulus or tubing based on the porting of the mandrel.

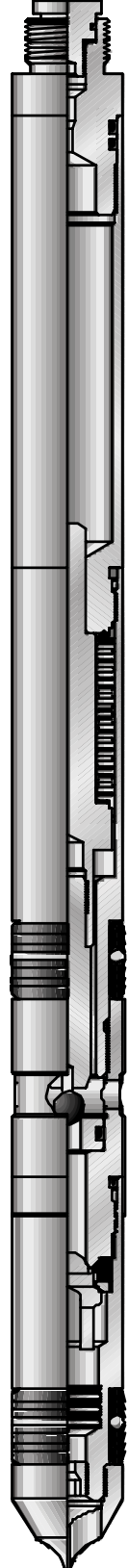
The valve is designed with a sealed chamber and 3 ply bellows that contains a nitrogen charge, which provides the closing force of the valve. When injection gas pressure exceeds the closing force, the bellows compresses, lifting the ball stem off of the seat and allowing gas to be injected through the valve into the producing area.



JM-BK



JM-BK-1



JM20-R



INJECTION PRESSURE OPERATED VALVES

APPLICATIONS

For continuous flow or intermittent gas lift, tubing of annular flow applications.

FEATURES/BENEFITS

- Stainless steel or premium materials available.
- Three ply Nickel-copper alloy bellows.
- Mechanical stop prevents bellows over stroke.
- Bellows dampening fluid to prevent fatigue and stem-seat pounding.
- Tungsten carbide ball
- Replaceable floating seat (Tungsten Carbide available)
- Integral reverse flow check valve to prevent casing to tubing flow.
- Pressure rating up to 1,800 psi (124 bars) test rack opening pressure.
- Integral reverse flow check valve with resilient and metal to metal seals.
- Temperature rating of 250° F (121°C) (Standard Service)
- Standard Neoprene packing with other materials available.

SPECIFICATIONS

| VALVE TYPE | VALVE OD | LATCH | A _b EFFECTIVE BELLOWS AREA (SQ. IN.) | PORT SIZE | A _p AREA OF PORT | A _p /A _b RATIO | 1-(A _p /A _b) | R P.P.E.F. A _p /A _b 1-(A _p /A _b) |
|------------|----------------------|--------------------------|---|---|---|---|---|--|
| JM-BK | 1 in. (25.4 mm) | JM-BK-2 | 0.31 | 1/8 in. (3.2 mm) 3/16 in. (4.8 mm) 1/4 in. (6.4 mm) 5/16 in. (8.0 mm) | 0.012 0.028 0.049 0.076 | 0.040 0.090 0.158 0.245 | 0.960 0.910 0.842 0.755 | 0.041 0.099 0.188 0.325 |
| JM-BK-1 | 1 in. (25.4 mm) | INTEGRAL BOTTOM | 0.31 | 1/8 in. (3.2 mm) 3/16 in. (4.8 mm) 1/4 in. (6.4 mm) 5/16 in. (8.0 mm) | 0.012 0.028 0.049 0.076 | 0.040 0.090 0.158 0.245 | 0.960 0.910 0.842 0.755 | 0.041 0.099 0.188 0.325 |
| JM20-R | 1 ½ in. (38.1 mm) | JM-RK JM-RA JM-RM2 | 0.77 | 1/8 in. (3.2 mm) 3/16 in. (4.8 mm) 1/4 in. (6.4 mm) 5/16 in. (8.0 mm) 3/8 in. (9.5 mm) 7/16 in. (11.1 mm) 1/2 in. (12.7 mm) | 0.012 0.028 0.049 0.077 0.110 0.150 0.196 | 0.016 0.036 0.064 0.100 0.143 0.195 0.255 | 0.984 0.964 0.936 0.900 0.857 0.805 0.745 | 0.016 0.037 0.068 0.111 0.167 0.242 0.342 |