

Flow Lock Sub XP

The Flow Lock Sub™ XP is designed for use in multi-zone, open-hole completions to allow circulation through the float shoe until time to test the integrity of the casing/liner. The Flow Lock Sub XP is closed by dropping/pumping a ball to seat in the sub. Predetermined pressure applied to the ball/seat closes and locks the Flow Lock Sub. Once closed, the casing/liner may be tested, and any hydraulic set packers/liner hangers may be set without additional intervention.

The sub is locked in the closed position when closed, and pressure integrity is maintained above and below the Flow Lock Sub, even if the ball rolls off the seat, creating a bi-directional barrier.



Features

- Locked open when running and circulating
- After closing, locked in closed position
- Allows high-pressure casing test after closing
- Extended pocket for dual-ball operations
- No E-line or coiled tubing intervention needed to close

Benefits

- Circulation through tool to condition wellbore before closing
- Single closing ball pumped to seat to close and lock sub
- Casing integrity test permissible after closing
- Debris tolerant during activation
- Used for liner with dual-ball setting mechanism

Applications

- Open-hole, multistage completions

Technical data

Flow Lock Sub	OD in. (mm)	Length ¹ in. (mm)	Burst rating psi (MPa)	Collapse rating psi (MPa)	Flow area in. ² (mm ²)	Max OD pass-thru ball psi (MPa)	Ball size to shift in. (mm)	Temperature rating °F (°C)
450 Q125	5.600 (142.24)	34.880 (885.95)	15,000 (103)	15,000 (103)	1.277 (823.86)	1.250 (31.75)	1.375 - 2.000 (34.93 - 50.80)	350 (176.67)

¹ Length will vary with end connection selected.