

# HiFLO™ Injection/Production Lock

Oil, Water, Gas, WAG, CCS Injection/Production Lock



## Applications:

- New Completions
- Production or Injection Operations
- Working Pressure up to 10,000 psi [690 bar]
- Temperatures up to 300°F [149°C]
- Steam Injection and Carbon- Capture (CCS) Versions Available

## Benefits:

- Low Differential Injection Pressure
- Positive No-Go Location
- Minimal ID Restriction
- Reduced Turbulence
- Longer Design Life

## Features:

- Validated to API-14L
- CRA Materials
- Standard Wireline Running and Pulling Procedures
- Polished Bore Size Flexibility

## Description

The HiFLO™ Lock is designed to be used with any OEM or Tejas HiFLO™ Nipples in well completions where an InjectGARD™ or FlowGARD™ Safety Valve is used as either the primary safety device, zonal isolation tools, or as passive "surge-protection" during injection/production operations. The HiFLO™ Lock is available in CRA materials and is designed for injection and/or production applications. The lock has a smooth internal diameter for the reduction of potentially damaging turbulent flow and subsequent erosion and can be used with other OEM equipment. The HiFLO™ Lock is designed for liquid, gas, and Carbon Dioxide injection and or production and can be dressed for cryogenic applications temperatures down to -248°F (-150°C).

The HiFLO™ Lock has dedicated running and pulling tools that use standard wireline operational procedures. The lock is set and recovered with shear pins to ensure lock security during use. The running tools provide "tattle-tale" indication and functionality that will not allow the HiFLO™ Lock to be landed in anything other than a HiFLO™ Nipple. The pulling tools are designed to hold-open interfacing equipment to prevent "swabbing" during recovery.



HiFLO™ Lock

HiFLO™ Injection/Production Lock				
Tubing Size in [mm]	Polished Bore in [mm]	Flow Area in <sup>2</sup> [cm <sup>2</sup> ]	Max. Rate bbl/day	Pressure Rating psi [bar]
2.375 [60.32]	1.875 [47.63]	0.61 [3.93]	5,500	10,000 [690]
2.875 [73.02]	2.313 [57.75]	1.08 [6.97]	9,750	
3.500 [88.90]	2.813 [71.45]	1.96 [12.65]	17,500	
4.000 [101.60]	3.313 [84.15]	3.02 [19.48]	27,000	
4.500 [114.30]	3.500 [88.90]	3.46 [22.32]	31,000	
	3.668 [93.67]	3.80 [24.51]	34,500	
	3.750 [95.25]	4.01 [25.87]	36,000	
	3.813 [96.85]	4.23 [27.29]	38,500	
5.000 [127.00]	4.313 [109.55]	5.81 [37.48]	52,000	
5.500 [139.70]	4.437 [112.70]	6.15 [39.68]	56,000	
	4.562 [115.87]	6.51 [42.00]	58,500	

† The engineering data provided illustrate the scope of this product offering and are not all inclusive. Additional sizes and functionality are available upon request.