

HYPERHARRIER SHIFTING TOOL

Slimline hydraulically actuated shifting tool



Rated up to 5,000 psi
[35 MPa]



Rated up to 285 degF
[141 degC]

FEATURES

- Works with any PremiumPort 2 or 3 position valves
- Slim diameter fits through most up-hole restrictions
- Capable of 30,000 lbs of over pull without disengaging the valve
- Fail-safe opening and closing, the HyperHarrier will only release if the operator stops pumping or the valve shifts
- POSI-Lock technology provides indication at surface of shift
- Extensive and rigorous testing ensures safe operation in a variety of conditions

Built on a foundation of success

Building on the field proven success of the Harrier, the HyperHarrier is an extraordinary new shifting tool capable of being conveyed through the tightest up-hole restrictions to shift down-hole valves such as the PremiumPort at full drift.

Coil or tubing conveyed, the hydraulically actuated shifting tool is designed to manipulate the complete line of PremiumPort 2 and 3 position valves, while providing maximum reliability and simple operation in open/close and re-open operations.

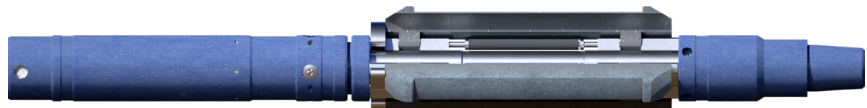
One of the smallest diameter and most robust shifting tools currently on the market, the HyperHarrier can be ran in it's 4½" configuration to a 2⅞" drift. With a unique self-centralizing design, it is rated at 10,000 psi. Hydraulically controlled keys ensure maximum performance including up to 30,000 lbs of over pull during actuation without releasing the valve unless desired.

Fail Safe Operation

The HyperHarrier, in combination with the PremiumPort valve's adjustable POSI-lock mechanism, provide operators with a reliable surface signal when the valve has shifted, by way of a positive indication on the weight indicator combined with the release of the Shifting Tool. The HyperHarrier is designed to release the valve even while actuated, only once the valve has shifted or the operators have stopped pumping, significantly reducing the risk of false positives.



HyperHarrier Keys Closed Position



HyperHarrier Keys Open Position

HyperHarrier Shifting Tool Specifications

Nominal Size in [mm]	Outside Diameter in [mm]	Length in [mm]	Standard Connection	Temp. Rating degF [degC]
2.375 [60.3]	1.75 [44.5]	32.4 [823]	1" AMMT Box x Pin	285 [141]
2.875 [73.0]	2.0 [50.85]	35.1 [892]	1" AMMT Box x Pin	285 [141]
3.5 [88.9]	2.3 [58.3]	36.3 [922]	1.5" AMMT Box x Pin	285 [141]
4.0 [101.6]	2.3 [58.3]	39.5 [1003]	1.5" AMMT Box x Pin	285 [141]
4.5 [114.3]	2.3 [58.3]	40.1 [1019]	1.5" AMMT Box x Pin	285 [141]
5.0 [127.0]	2.3 [58.3]	40.1 [1019]	1.5" AMMT Box x Pin	285 [141]
5.5 [139.7]	2.7 [68.6]	46.3 [1176]	2.375" PAC DSI Box x Pin	285 [141]
6.0 [152.4]	2.7 [68.6]	46.3 [1176]	2.375" PAC DSI Box x Pin	285 [141]
6.625 [168.2]	3.3 [83.8]	46.0 [1168]	2.375" PAC DSI Box x Pin	285 [141]
7.0 [177.8]	3.5 [88.9]	46.0 [1168]	2.375" PAC DSI Box x Pin	285 [141]

