

F COMPLETION SOLUTIONS | SUBSURFACE FLOW CONTROLS

Otis® X®/XN® landing nipples and lock mandrels

Industry-standard flow controls available in selective by running tool and No-Go options

FEATURES

- Landing Nipples
 - Large bore for minimum restriction
 - Universal nipple with one internal profile
- Lock Mandrels
 - Retractable locking keys
 - Locks designed to hold pressure from above or below
 - Extra large ID for higher flow volumes

BENEFITS

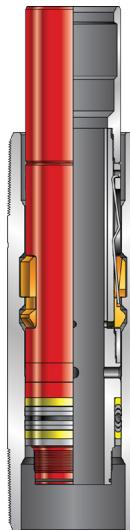
- Landing Nipples
 - Versatility helps reduce completion and production maintenance costs
 - Simple operation
 - Multiple options when running, setting, or retrieving subsurface flow controls
- Lock Mandrels
 - Faster slickline service because of the retractable keys
 - Operator control of locating, landing, and locking in the selected nipple
 - Inside fishing neck provides large ID to maximize production

OTIS X® landing nipples and lock mandrels

Halliburton Otis X® landing nipples are selective by running tool and are run in the well on the completion tubing to provide a specific landing location for subsurface flow control equipment. These landing nipples feature common internal profiles. The Otis X landing nipple is designed for use in standard weight tubing.

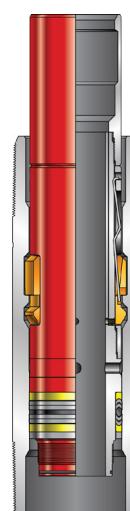
The completion can include as many selective nipples with the same ID in any sequence as desired in the tubing string. This versatility results in an unlimited number of positions for setting and locking subsurface flow controls. The flow control, which is attached to the required Otis X lock mandrel, is run in the well via the selective running tool on slickline.

The slickline operator using the selective running tool can set the flow control in any one of the landing nipples at the desired depth. If this location is unsatisfactory or if well conditions change, the flow control may be moved up or down the tubing string to another nipple location. These operations can be done by slickline under pressure without killing the well.



HAL54991

Otis® X® Landing Nipple and Lock Mandrel



HAL106032

Otis® XN® Landing Nipple and Lock Mandrel (Equalizing Valve also shown)

Applications

- Gauge hangers for bottomhole pressure/temperature surveys
- Positive locator for straddle systems
- Plugging under pressure
- Almost unlimited locations for setting and locking subsurface flow controls

OTIS XN® No-Go landing nipples and lock mandrels

Otis XN® no-go landing nipples are designed for use in single nipple installations or as the bottom nipple in a series of Otis X or R landing nipples. These landing nipples have the same packing bore ID for a particular tubing size and weight. Otis XN landing nipples are designed for use with standard weight tubing.

Otis® X® and XN® landing nipples and lock mandrels

TUBING								FOR STANDARD TUBING WEIGHTS						LOCK MANDREL ID	
								X® PROFILE		XN® PROFILE					
SIZE		WEIGHT		ID		DRIFT		PACKING BORE		PACKING BORE		NO-GO ID			
IN.	MM	LB/FT	KG/M	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM
1.660	42.16	2.3	3.42	1.380	35.05	1.286	32.66	1.250	31.75	1.250	31.75	1.135	28.83	0.62	15.75
		2.4	3.57												
1.900	48.26	2.4	3.57	1.660	42.16	1.516	38.51	1.500	38.10	1.500	38.10	1.448	36.78	0.75	19.05
		2.76	4.11												
		2.9	4.32												
2.063	52.40	3.25	4.84	1.751	44.48	1.657	42.09	1.625	41.28	1.625	41.28	1.536	39.01	0.75	19.05
2 3/8	60.33	4.6	6.85	1.995	50.67	1.901	48.29	1.875	47.63	1.875	47.63	1.791	45.49	1.00	25.40
		4.7	6.99												
2 7/8	73.03	6.4	9.52	2.441	62.00	2.347	59.61	2.313	58.75	2.313	58.75	2.205	56.01	1.38	35.05
		6.5	9.67												
3 1/2	88.90	9.3	13.84	2.992	76.00	2.867	72.82	2.813	71.45	2.813	71.45	2.666	67.72	1.75	44.45
		10.2	15.18	2.992	74.22	2.797	71.04	2.750	69.85	2.750	69.85	2.635	66.93		
4	101.60	11	16.37	3.476	88.29	3.351	85.10	3.313	84.15	3.313	84.15	3.135	79.63	2.12	53.85
4 1/2	114.30	12.75	18.97	3.958	100.53	3.833	97.36	3.813	96.85	3.813	96.85	3.725	94.62	2.62	66.55
5	127.00	13	19.35	4.494	114.14	4.369	110.97	4.313	109.55	4.313	109.55	3.987	101.27	2.62	66.55
5 1/2	139.70	17	25.30	4.892	124.26	4.767	121.08	4.562	115.87	4.562	115.87	4.455	113.16	3.12	79.25

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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