

Otis® RPT® No-Go Landing Nipple and Lock Mandrel System

OVERVIEW

The Halliburton Otis® RPT® no-go landing nipple system provides a means of running a series of positive location landing nipples in a tubing string with minimum restriction. Otis RPT no-go landing nipples are designed to accept Otis RPT and RPTS lock mandrels.

The Otis RPT and RPTS no-go lock mandrels locate on top of the nipple's polished bore; therefore, there are no secondary restrictions normally associated with bottom no-go profiles. This feature makes Otis RPT systems well suited for high-pressure, high-volume large bore completions. Otis RPT and RPTS lock mandrels in any given size range are designed to use the same running tool and pulling tool.

Some of the original RPT series lock mandrels were designed with large no-go profiles that were not compatible with the 1/16-in. sealbore ID reductions between nipples that are currently available. For these sizes, the RPTS series of locks was developed. All RPTS lock mandrels incorporate no-go profiles that allow a 1/16-in. sealbore stagger in the completion design. The reduction in no-go OD on the RPTS lock mandrel does not affect their pressure rating.

APPLICATIONS

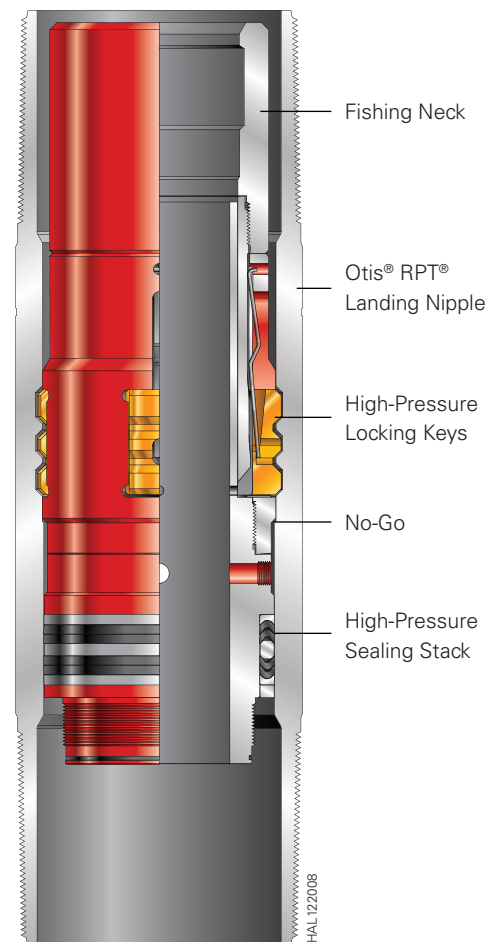
- » High-pressure, high-temperature large bore completions
- » Running a series of no-go nipples in a tubing string when positive location and minimal ID reduction are required

FEATURES

- » Large bore
- » All RPTS locks and most RPT locks will allow a 1/16-in. stagger in nipple bore sizes
- » Lock mandrel locates on top of the nipple's polished bore
- » A series of profile IDs are established for common tubing strings by size and weight
- » The reduction in no-go OD on the RPTS lock mandrel does not have any effect on their pressure rating

» BENEFITS

- » No secondary restrictions normally associated with bottom no-go profiles
- » Lock mandrels in a particular size range use the same running and pulling tool



Otis® RPT® Profile and Lock Dimensions

Tubing Size		Nipple Profile		Lock Mandrel			
		Sealbore (Minimum ID)		ID		OD	
in.	mm	in.	mm	in.	mm	in.	mm
2 3/8	60.33	1.500	38.10	0.75	19.05	1.560	39.62
		1.625	41.28			1.685	42.80
		1.781	45.24			1.841	46.76
		1.875	47.63			1.935	49.15
		2.000	50.80			2.060	52.32
		2.125	53.98			2.185	55.5
2 7/8	73.03	2.000	50.80	1.12	28.45	2.060	52.32
		2.125	53.98			2.185	55.5
		2.188	55.58			2.248	57.10
		2.313	58.75			2.373	60.27
		2.482	63.04			2.542	64.57
3 1/2	88.90	2.562	65.07	1.50	38.10	2.622	66.6
		2.650	67.31			2.710	68.83
		2.750	69.85			2.810	71.37
		2.813	71.45			2.860	72.64
		2.875	73.03			2.935	74.55
4 - 4 1/2	101.6 - 14.3	3.000	76.20	1.75	44.45	3.060	77.72
		3.125	79.38	1.94	49.28	3.210	81.53
		3.125	79.38			3.210	81.53
		3.313	84.15			3.395	86.23
4 1/2 - 5	114.3 - 127	3.437	87.30	1.94	49.28	3.520	89.41
		3.562	90.47			3.650	92.71
		3.688	93.68			3.770*	95.76
		3.750	95.25			3.807	96.70
		3.813	96.85			3.895	98.93
		4.000	101.60			4.090	103.89
5 1/2	139.70	4.188	106.38	2.75	69.85	4.270*	108.46
		4.250	107.95			4.332*	110.03
		4.313	109.55			4.395	111.63
		4.437	112.70			4.520*	114.81
		4.500	114.30			4.550	115.57
		4.562	115.87	3.12	79.25	4.650	118.11
		4.688	119.08			4.760*	120.90
		4.688	119.08			4.760*	120.90
		4.750	120.65			4.825	122.56
		4.813	122.25			4.890	124.21
7	177.80	5.250	133.35	3.68	93.47	5.334	135.48
		5.500	139.70			5.585	141.86
		5.625	142.88			5.710	145.03
		5.750	146.05			5.840*	148.34
		5.813	147.65			5.890*	149.61
		5.875	149.23			5.940	150.88
		5.963	151.46			6.025	153.04
		6.125	155.58			6.180	156.97
6.250	158.75	6.330	160.78				

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

*No-go OD for these RPT® lock sizes might not be compatible with next larger size nipple. Special OD tools are available. These use part number prefix 10RPTS and 710RPTS.

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