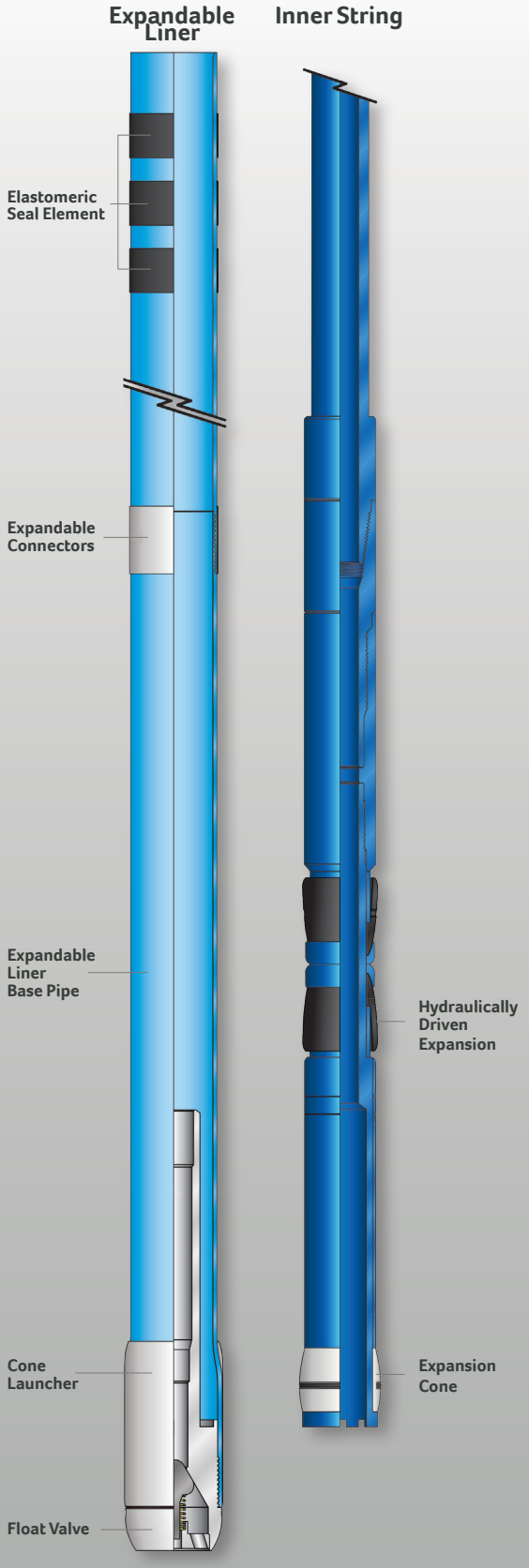
CORE
METAL EXPANDABLES

Outer Core - ReLine DL



When low pressure, thief, or trouble zones are encountered while drilling, the ReLine DL system enables the operator to isolate the interval with an expandable liner and reduce the telescoping effect in the wellbore.

This provides a significant ID advantage when compared to a conventional liner string, enabling passage of optimised bit, casing & completion designs, and ultimately maximizing production.

The ReLine DL system is a bottom-up expansion design which uses hydraulic pressure to drive the expansion cone from the bottom of the liner to the top.

The system allows for cementing operations prior to expansion and facilitates a fully testable, anchored liner tie back into the previous shoe, ensuring life of well integrity with the added value of optimised wellbore diameter.

Primary elastomeric seal elements can be incorporated to the DL system in conjunction with swellable elastomers to provide instantaneous high-pressure liner to rock isolation at the launcher, and zonal isolation of the open hole where required.

FEATURES

- Extensive size range
- Hydraulic bottom-up expansion
- Optimised RIH OD & post-expansion ID
- Proprietary e2m expandable connection
- Debris tolerant running tool design
- High anchoring loads both in cased hole & open hole
- Multiple premium elastomers provide added assurance of life of well integrity in cased hole

BENEFITS

- Low ECD during RIH & circulation due to optimised pre-expansion OD
- Cement through & wash down capable prior to expansion
- Rotatable to assist with liner placement and cementing operations
- Deployable through milled windows for side-tracks & multi-laterals
- Running tool design enables flexibility in liner length
- Hydraulically driven expansion process reduces the overpull requirements of the rig

APPLICATIONS

- Expandable liner
- Shoe extension liner
- Loss zone isolation
- Gas cap / water isolation
- Infill wells
- Side-tracks
- Standalone open hole patch

CORE PRODUCT SYNERGIES

- Origin WBCU Portfolio

CORETRAX®
EXPAND THE LIMITS

SPECIFICATIONS

Parent Wellbore or Casing							Pre-Expanded Running Specs			Expanded Geometry				Expanded Performance	
OD	Weight	Wall Thickness	ID	API ID Min	API ID Max	Nominal Drift ID	OD	Wall Thickness	Maximum RIH OD	OD	Nominal ID	Special Drift	Expansion Ratio	Internal Yield Pressure	Collapse Pressure
[in]	[lb/ft]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[%]	[psi]	[psi]
13.375	77.0	0.550	12.275	12.208	12.460	12.119	10.750	0.350	12.089	12.068	11.432	11.307	13.8	3,933	910
13.375	72.0	0.514	12.347	12.280	12.528	12.191	10.750	0.350	12.161	12.142	11.510	11.385	14.5	3,913	870
13.375	68.0	0.480	12.415	12.348	12.593	12.259	10.750	0.350	12.229	12.212	11.583	11.458	15.3	3,895	840
13.375	54.5	0.380	12.615	12.448	12.688	12.459	10.750	0.350	12.429	12.417	11.798	11.673	17.4	3,840	760
11.875	71.8	0.582	10.711	12.548	12.783	10.555	9.625	0.352	10.525	10.475	9.818	9.693	10.1	4,529	1,490
11.750	65.0	0.534	10.682	10.652	10.884	10.526	9.625	0.352	10.496	10.445	9.786	9.661	9.7	4,538	1,510
11.750	60.0	0.489	10.772	10.623	10.849	10.616	9.625	0.352	10.586	10.538	9.885	9.760	10.8	4,508	1,450
10.750	60.7	0.545	9.660	9.606	9.819	9.504	8.625	0.571	9.442	9.388	8.332	8.207	11.3	8,226	5,420
10.750	60.7	0.545	9.660	9.606	9.819	9.504	8.625	0.417	9.442	9.394	8.619	8.494	10.6	5,988	2,680
10.750	40.5	0.350	10.050	9.996	10.189	9.894	8.625	0.417	9.864	9.855	9.116	8.991	17.0	5,801	2,300
9.875	62.8	0.625	8.625	8.576	8.784	8.469	7.625	0.375	8.349	8.330	7.635	7.511	11.1	6,078	2,770
9.625	53.5	0.545	8.535	8.487	8.683	8.379	7.625	0.375	8.349	8.330	7.635	7.510	11.1	6,078	2,770
9.625	47.0	0.472	8.681	8.633	8.821	8.525	7.625	0.430	8.495	8.411	7.624	7.499	12.7	6,921	3,690
9.625	47.0	0.472	8.681	8.633	8.821	8.525	7.625	0.375	8.495	8.480	7.797	7.672	13.4	5,994	2,550
9.625	43.5	0.435	8.755	8.707	8.892	8.599	7.625	0.430	8.569	8.488	7.708	7.583	13.9	6,872	3,530
9.625	43.5	0.435	8.755	8.707	8.892	8.599	7.625	0.375	8.569	8.556	7.879	7.754	14.6	5,951	2,470
9.625	40.0	0.395	8.835	8.787	8.968	8.679	7.625	0.375	8.649	8.608	7.935	7.875*	20.1	5,925	2,410
9.625	36.0	0.352	8.921	8.873	9.050	8.765	7.625	0.375	8.735	8.727	8.064	7.939	17.3	5,852	2,280
7.625	39.0	0.500	6.625	6.587	6.749	6.500	6.000	0.324	6.470	6.415	5.804	5.750	8.4	6,784	3,840
7.625	33.7	0.430	6.765	6.727	6.882	6.640	6.000	0.324	6.610	6.561	5.962	5.837	11.4	6,672	3,480
7.625	29.7	0.375	6.875	6.837	6.986	6.750	6.000	0.324	6.720	6.766	6.185	6.125*	16.8	6,512	2,990
7.000	32.0	0.453	6.094	6.059	6.207	5.969	5.500	0.304	5.939	5.884	5.311	5.251	8.6	6,941	4,030
7.000	29.0	0.408	6.184	6.149	6.293	6.059	5.500	0.361	6.029	5.989	5.322	5.262	11.4	8,143	5,290
7.000	29.0	0.408	6.184	6.149	6.293	6.059	5.500	0.304	6.029	5.978	5.413	5.353	10.7	6,861	3,770
7.000	26.0	0.362	6.276	6.241	6.380	6.151	5.500	0.361	6.121	6.077	5.420	5.360	13.4	8,052	5,000
7.000	26.0	0.362	6.276	6.241	6.380	6.151	5.500	0.304	6.121	6.074	5.518	5.458	12.8	6,777	3,500
7.000	23.0	0.317	6.366	6.331	6.465	6.241	5.500	0.304	6.211	6.168	5.620	5.560	14.9	6,695	3,250
7.000	20.0	0.272	6.456	6.421	6.551	6.331	5.500	0.304	6.301	6.262	5.722	5.662	17.0	6,610	3,010

*Special Drift. Contact Coretrax Representative.

1. All values are based on MTX-60 material grade. Other material grades are available on request.
2. All values calculated at ambient temperature unless otherwise noted.
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