

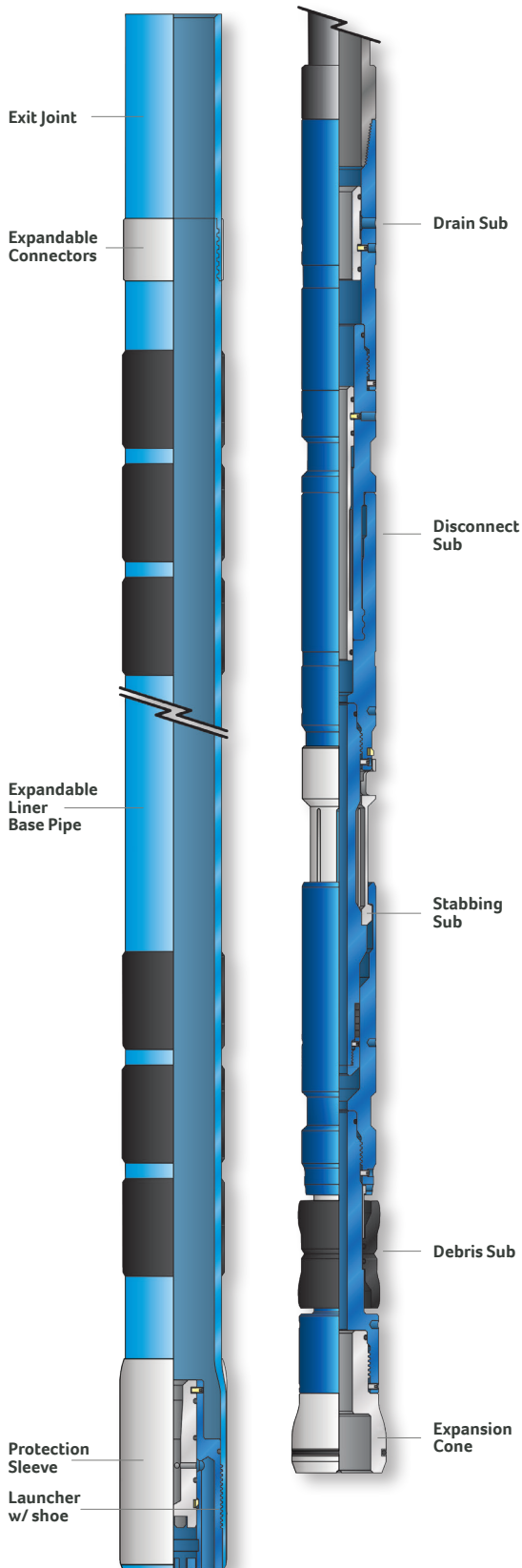
ReLine HYD

Casing, tubing or completion equipment in the wellbore, such as sliding sleeves, can fail or deteriorate over the life of the well.

ReLine HYD allows the failed area to be reliably clad and sealed with minimal loss of inner diameter, whilst providing high burst and collapse ratings.

The expansion system uses hydraulic pressure to pump the expansion cone from the bottom of the liner to the top. The device is designed to be pipe deployed and cover long or short intervals.

Long lengths are reliably achieved with Mohawk's proprietary E2M connection



BENEFITS

- Customised elastomeric seals for severely corroded or irregular casing applications
- Reliable sealing to support high pressures
- Suited for high temperature environments up to 400°F
- Protection sleeves to prevent damage while running in hole

APPLICATIONS

- Perforation shut off
- Wellbore reduction for improved flow rate/ESP
- Water shut off
- Refrac
- Connection/collar leaks
- Parted casing
- Casing corrosion
- Casing wear
- Leaking sliding sleeve
- Open frac sleeve
- Leaking frac sleeve
- Leaking DV tool



RELINE HYD RATINGS

CUSTOMER CASING			PRE-EXPANDED GEOMETRY			EXPANDED GEOMETRY AND RATINGS					
OD (in)	Wt (lb/ft)	ID (in)	OD (in)	Wall (in)	Wt (lb/ft)	OD (in)	Nominal ID (in)	Special Drift (in)	Ex. Ratio (%)	Int. Yield (psi)	Collapse (psi)
16.00	109.0	14.688	13.375	0.380	54.5	14.470	13.756	13.599	9.0	3259	740
	97.0	14.850	13.375	0.380	54.5	14.635	13.928	13.771	10.4	3247	700
	95.0	14.868	13.375	0.380	54.5	14.653	13.947	13.791	10.6	3245	690
	84.0	15.010	13.375	0.380	54.5	14.798	14.098	13.941	11.8	3229	650
13.625	88.2	12.375	10.750	0.350	40.5	12.171	11.540	11.383	14.8	3645	860
13.375	77.0	12.275	10.750	0.350	40.5	12.068	11.432	11.276	13.8	3668	900
	72.0	12.347	10.750	0.350	40.5	12.142	11.510	11.353	14.5	3652	870
	68.0	12.415	10.750	0.350	40.5	12.212	11.583	11.426	15.3	3635	760
	54.5	12.615	10.750	0.350	40.5	12.417	11.798	11.642	17.4	3582	760
11.875	71.8	10.711	9.625	0.352	36.0	10.496	9.840	9.684	10.3	4191	1390
11.750	65.0	10.682	9.625	0.352	36.0	10.466	9.809	9.652	9.9	4196	1410
	60.0	10.772	9.625	0.352	36.0	10.559	9.906	9.750	11.0	4180	1360
10.750	65.7	9.560	8.625	0.352	32.0	9.353	8.694	8.538	9.8	4691	1790
	60.7	9.660	8.625	0.352	32.0	9.455	8.803	8.647	11.1	4670	1720
	55.5	9.760	8.625	0.352	32.0	9.558	8.912	8.756	12.5	4643	1650
	45.5	9.950	8.625	0.352	32.0	9.752	9.119	8.963	15.1	4577	1520
	40.5	10.050	8.625	0.352	32.0	9.855	9.228	9.072	16.5	4537	1450
9.875	62.8	8.625	7.625	0.375	29.7	8.423	7.735	7.610	12.5	5613	2440
9.625	53.5	8.535	7.625	0.375	29.7	8.330	7.635	7.510	11.1	5645	2570
	47.0	8.681	7.625	0.375	29.7	8.480	7.797	7.672	13.4	5588	2360
	43.5	8.755	7.625	0.375	29.7	8.556	7.879	7.754	14.6	5553	2250
	40.0	8.834	7.625	0.375	29.7	8.638	7.967	7.811	15.9	5511	2150
	36.0	8.921	7.625	0.375	29.7	8.727	8.064	7.907	17.3	5461	2070
8.625	63.5	7.125	6.000	0.324	20.0	6.867	6.295	6.170	17.6	5997	2560
	40.0	7.725	7.000	0.317	23.0	7.516	6.918	6.793	8.7	5222	2280
	36.0	7.825	7.000	0.317	23.0	7.619	7.029	6.904	10.4	5202	2140
	32.0	7.921	7.000	0.317	23.0	7.718	7.135	7.010	12.1	5170	2050
7.625	53.5	6.125	5.500	0.304	17.0	5.917	5.346	5.221	9.3	6386	3540
	51.2	6.251	5.500	0.304	17.0	6.048	5.489	5.364	12.2	6330	3240
	47.1	6.375	5.500	0.304	17.0	6.177	5.630	5.505	15.1	6240	2950
	39.0	6.625	6.000	0.324	20.0	6.415	5.804	5.679	8.4	6243	3460
	33.7	6.765	6.000	0.324	20.0	6.561	5.962	5.837	11.4	6201	3160
	29.7	6.875	6.000	0.324	20.0	6.675	6.086	5.961	13.7	6139	2930
7.00	35.0	6.004	5.500	0.304	17.0	5.791	5.209	5.084	6.50	6383	3840
	32.0	6.094	5.500	0.304	17.0	5.884	5.311	5.186	8.60	6392	3620
	29.0	6.184	5.500	0.304	17.0	5.978	5.413	5.288	10.70	6366	3400
	26.0	6.276	5.500	0.304	17.0	6.074	5.518	5.393	12.80	6314	3180
	23.0	6.366	5.500	0.304	17.0	6.168	5.620	5.495	14.90	6248	2970
	20.0	6.456	5.500	0.304	17.0	6.262	5.722	5.597	17.00	6169	2770

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5.50	26.0	4.548	3.875	0.254	9.2	4.461	3.985	3.925	18.34	8666	4312
	23.0	4.670	4.250	0.250	10.7	4.552	4.066	4.006	8.43	8653	4304
	20.0	4.778	4.250	0.250	10.7	4.670	4.190	4.130	11.73	8339	3968
	17.0	4.892	4.250	0.250	10.7	4.795	4.321	4.261	15.22	8023	3640
	15.5	4.950	4.250	0.250	10.7	4.859	4.387	4.327	16.99	7869	3480
	14.0	5.012	4.250	0.250	10.7	4.927	4.458	4.398	18.88	7709	3312
5.50	26.0	4.548	4.250	0.310	13.1	4.422	3.812	3.752	5.01	11176	6944
	23.0	4.670	4.250	0.310	13.1	4.557	3.956	3.896	8.98	10697	6448
	20.0	4.778	4.250	0.310	13.1	4.678	4.084	4.024	12.50	10296	6024
	17.0	4.892	4.250	0.310	13.1	4.805	4.218	4.158	16.21	9895	5600
	15.5	4.950	4.250	0.310	13.1	4.869	4.287	4.227	18.10	9698	5400
	14.0	5.012	4.250	0.310	13.1	4.939	4.360	4.300	20.11	9494	5184
5.00	26.7	3.876	3.500	0.254	8.8	3.761	3.269	3.209	9.25	10611	6352
	24.2	4.000	3.500	0.254	8.8	3.900	3.416	3.356	14.19	10058	5776
	23.2	4.044	3.500	0.254	8.8	3.950	3.469	3.409	15.94	9871	5576
	20.8	4.126	3.500	0.254	8.8	4.042	3.567	3.507	19.21	9535	5224
	18.0	4.276	3.875	0.254	9.2	4.160	3.667	3.607	8.91	9605	5296
4.50	15.1	3.826	3.500	0.254	8.8	3.705	3.209	3.149	7.25	10846	6600
	13.5	3.920	3.500	0.254	8.8	3.810	3.321	3.261	11.00	10410	6144
	12.6	3.958	3.500	0.254	8.8	3.853	3.366	3.306	12.51	10241	5968
	11.6	4.000	3.500	0.254	8.8	3.900	3.416	3.356	14.19	10058	5776
	10.5	4.052	3.500	0.254	8.8	3.959	3.478	3.418	16.26	9838	5544
	9.5	4.090	3.500	0.254	8.8	4.002	3.524	3.464	17.77	9681	5376