

**DESCRIPTION**

- |                                                       |                                                     |
|-------------------------------------------------------|-----------------------------------------------------|
| <b>A-LNX, A-184 – Landing Nipple with X profile</b>   | <b>A-LMX, A-271 – Lock mandrel with X profile</b>   |
| <b>A-LNXN, A-177 – Landing Nipple with XN profile</b> | <b>A-LMXN, A-176 – Lock mandrel with XN profile</b> |
| <b>A-LNR, A-107 – Landing Nipple with R profile</b>   | <b>A-LMR, A-201 – Lock mandrel with R profile</b>   |
| <b>A-LNRN, A-108 – Landing Nipple with RN profile</b> | <b>A-LMRN, A-276 – Lock mandrel with RN profile</b> |

Landing Nipples are run into the well on the completion tubing to provide a specific landing location for respective lock mandrels. The profiles of landing nipples and lock mandrels are universal.

Usually X-Landing Nipples are used in standard weight tubing applications where there are moderate pressure differentials and with heavy weight tubing, R-Landing Nipples are typically used.

Many selective nipples with the same seal bore can exist in sequence as desired on the tubing string. This versatility results in an unlimited number of positions for setting and locking subsurface flow controls.

XN and RN Landing Nipples and Lock Mandrels: The profile has an angled shoulder instead of the square of the selective types. A “no go” shoulder of an adapter sub made up at the bottom of the lock must make contact with a bore restriction in the “no go” nipple in order to lock the mandrel in the landing nipple.

These equipment are no-go version of the selective profiles, designed for use in single nipple installations or as the bottom nipple in a series of ‘X’ or ‘R’ Landing Nipples.

The Equalizing Prong or Valve assembly, when attached to a Lock mandrel assembly, converts the lock mandrel to a **Blanking Plug**, with equalizing device, capable of holding pressure differentials from above or below.

The flow control, which is attached to the required ‘X’ or ‘R’ Lock Mandrel, is run in the well via the selective running tool on slickline.

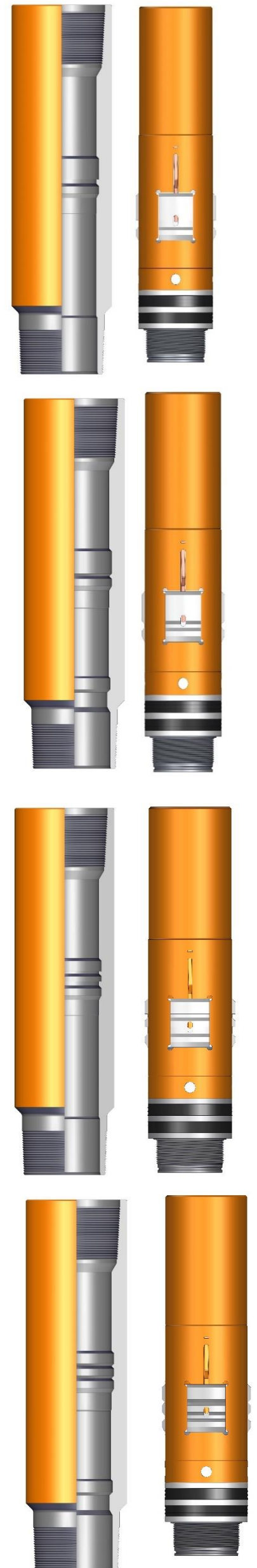
Equipment are available in different materials and connections as per requirement.

**FEATURES & BENIFITS**

- Universal profiles
- No flow restrictions in Nipples reducing flowing pressure loss and minimizing turbulence
- Rugged use
- Ease of use
- Versatile, with multiple options of Flow Control devices

**APPLICATIONS**

- Setting and Locking Subsurface equipment.
- Plugging of the String
- Hanging Gauge
- Killing of the well



**DIMENSIONAL SPECIFICATIONS**

TUBING								X PROFILE		XN PROFILE				LOCK MANDREL ID	
SIZE		WEIGHT		ID		DRIFT		Seal Bore		Seal Bore		NO-GO ID		LOCK MANDREL ID	
(in)	(mm)	lb/ft	Kg/m	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
1.660	42.16	2.30	3.43	1.380	35.05	1.286	32.66	1.250	31.75	1.250	31.75	1.135	28.83	0.62	15.75
		2.40	3.57	1.380	35.05	1.286	32.66	1.250	31.75	1.250	31.75	1.135	28.83	0.62	15.75
1.900	48.26	2.40	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	1.610	40.89	1.516	38.51	1.500	38.10	1.500	38.10	1.448	36.78	0.75	19.05
		2.90	4.32	1.610	40.89	1.516	38.51	1.500	38.10	1.500	38.10	1.448	36.78	0.75	19.05
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
2.375	60.33	4.60	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
		4.70	7.00	1.995	50.67	1.901	48.29	1.875	47.63	1.875	47.63	1.791	45.49	1.00	25.40
2.875	73.03	6.40	9.53	2.441	62.00	2.347	59.61	2.313	58.75	2.313	58.75	2.205	56.01	1.38	35.05
		6.50	9.68	2.441	62.00	2.347	59.61	2.313	58.75	2.313	58.75	2.205	56.01	1.38	35.05
3.500	88.90	9.30	13.85	2.992	76.00	2.867	72.82	2.813	71.45	2.813	71.45	2.666	67.72	1.75	44.45
		10.30	15.34	2.992	74.22	2.797	71.04	2.750	69.85	2.750	69.85	2.635	66.93	1.75	44.45
4.000	101.60	11.00	16.38	3.476	89.29	3.351	85.12	3.313	84.15	3.313	84.15	3.135	79.63	2.12	53.85
4.500	114.30	12.75	18.99	3.958	100.53	3.833	97.36	3.813	96.85	3.813	96.85	3.725	94.62	2.62	66.55
5.000	127.00	13.00	19.36	4.494	114.15	4.369	110.97	4.313	109.55	4.313	109.55	3.987	101.27	2.62	66.55
5.500	139.70	17.00	25.32	4.892	124.26	4.767	121.08	4.562	115.87	4.562	115.87	4.455	113.16	3.12	79.25

TUBING								R PROFILE		RN PROFILE				LOCK MANDREL ID	
SIZE		WEIGHT		ID		DRIFT		Seal Bore		Seal Bore		NO-GO ID		LOCK MANDREL ID	
(in.)	(mm)	lb/ft	(kg/m)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
1.900	48.26	3.64	5.42	1.500	38.10	1.406	35.71	1.375	34.93	1.375	34.93	1.250	31.75	0.62	15.75
2.375	60.33	5.30	7.89	1.939	49.25	1.845	46.86	1.781	45.24	1.781	45.24	1.640	41.66	0.88	22.35
		5.95	8.86	1.867	47.42	1.773	45.03	1.710	43.43	1.710	43.43	1.560	39.62	0.75	19.05
		6.20	9.23	1.853	47.07	1.759	44.68	1.710	43.43	1.710	43.43	1.560	39.62	0.75	19.05
		7.70	11.47	1.703	43.26	1.609	40.87	1.500	38.10	1.500	38.10	1.345	34.16	0.62	15.75
2.875	73.03	7.90	11.77	2.323	59.00	2.229	56.62	2.199	55.58	2.188	55.58	2.010	51.05	1.12	28.45
		8.70	12.96	2.259	57.38	2.165	54.99	2.125	53.98	2.125	53.98	1.937	49.20	0.88	22.35
		8.90	13.26	2.243	56.97	2.149	54.58	2.125	53.98	2.125	53.98	1.937	49.20	0.88	22.35
		9.50	14.15	2.196	55.75	2.101	53.37	2.000	50.80	2.000	50.80	1.881	47.78	0.88	22.35
		10.40	15.49	2.151	54.64	2.057	52.25	2.000	50.80	2.000	50.80	1.881	47.78	0.88	22.35
		11.00	16.38	2.065	52.45	1.971	50.06	1.875	47.63	1.875	47.63	1.716	43.59	0.88	22.35
3.500	89.90	11.65	17.35	1.995	50.67	1.901	48.29	1.875	47.63	1.875	47.63	1.716	43.59	0.88	22.35
		12.95	19.29	2.750	69.85	2.625	66.68	2.562	65.07	2.562	65.07	2.329	59.16	1.38	35.05
		15.80	23.53	2.548	64.72	2.423	61.54	2.313	58.75	2.313	58.75	2.131	54.13	1.12	28.45
		16.70	24.87	2.480	62.99	2.355	59.82	2.313	58.75	2.313	58.75	2.131	54.13	1.12	28.45
4.000	101.60	17.05	25.40	2.440	61.98	2.315	58.80	2.188	55.58	2.188	55.58	2.010	51.05	1.12	28.45
		11.60	17.28	3.428	87.07	3.303	83.90	3.250	82.55	3.250	82.55	3.088	78.44	1.94	49.28
4.500	114.30	13.40	19.96	3.340	84.84	3.215	81.66	3.125	79.38	3.125	79.38	2.907	73.84	1.94	49.28
		12.75	18.99	3.958	100.53	3.833	97.36	3.813	96.85	3.813	96.85	3.725	94.62	2.12	53.85
		13.50	20.11	3.920	99.57	3.795	96.39	3.688	93.68	3.688	93.68	3.456	87.78	2.38	60.45
		15.50	23.09	3.826	97.18	3.701	94.01	3.688	93.68	3.688	93.68	3.456	87.78	2.38	60.45
		16.90	25.17	3.754	95.35	3.629	92.18	3.437	87.30	3.437	87.30	3.260	82.80	1.94	49.28
		19.20	28.60	3.640	92.46	3.515	89.28	3.437	87.30	3.437	87.30	3.260	82.80	1.94	49.28

**Note: Other sizes available on request.**