



Slickline Tools Catalog



LOCKS AND LANDING NIPPLE SPECIFICATIONS

Kodiak's R / RN LANDING NIPPLES AND LOCKS															
TUBING								USED FOR HEAVY TUBING WEIGHTS						LOCK MAN- DREL ID	
								R PROFILE		RN PROFILE					
SIZE		WEIGHT		ID		DRIFT		SEAL BORE		SEAL 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	3.02	4.50	1.278	32.46	1.184	30.07	1.125	28.58	1.125	28.58	1.012	25.70		
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								
		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	2.188	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								
		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		
		10.40	15.49	2.151	54.64	2.057	52.25								
		11.00	16.38	2.065	52.45	1.971	50.06	1.875	47.63	1.875	47.63	1.716	43.59		
3.500	89.90	11.65	17.35	1.995	50.67	1.901	48.29								
		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								
		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		
		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		
		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								
		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	24.17	3.754	95.35	3.629	92.18								
5.000	127.00	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
		15.00	22.34	4.408	111.96	4.283	108.79	4.125	104.78	4.125	104.78	3.913	99.39	2.75	69.85
5.500	139.70	18.00	26.81	4.276	108.61	4.151	105.44	4.000	101.60	4.000	101.60	3.748	95.20	2.38	60.45
		17.00	25.32	4.892	124.26	4.767	121.08	4.562	115.87	4.562	115.87	4.455	113.16	2.85	72.39
		20.00	29.79	4.778	121.36	4.653	118.19								
6.000	152.40	23.00	34.26	4.670	118.62	4.545	115.44	4.313	109.55	4.313	109.55	3.987	101.27	2.62	66.55
		15.00	22.34	5.524	140.31	5.399	137.13								
6.625	168.28	18.00	26.81	5.424	137.77	5.299	134.59	5.250	133.35	5.250	133.35	5.020	127.51	3.50	88.90
		24.00	35.75	5.921	150.39	5.796	147.22								
7.000	177.80	28.00	41.71	5.791	147.09	5.666	143.92	5.625	142.88	5.625	142.88	5.500	139.70	3.50	88.90
		17.00	25.32	6.538	166.07	6.431	163.35								
		20.00	29.79	6.456	163.98	6.331	160.81								
		23.00	34.26	6.366	161.70	6.241	158.52	5.962	151.43	5.962	151.43	5.750	146.05	3.75	95.25
		26.00	38.73	6.276	159.41	6.151	156.24								
		29.00	43.20	6.184	157.07	6.059	153.90								
		32.00	47.66	6.094	154.79	6.969	177.01								
8.625	219.08	35.00	52.13	6.004	152.50	5.879	149.33	5.875	149.23	5.875	149.23				
								7.450	189.23	7.450	189.23	7.325	186.06	5.250	133.35
								7.250	184.15	7.250	184.15	7.125	180.98		
								7.050	179.07	7.050	179.07	6.925	175.90		



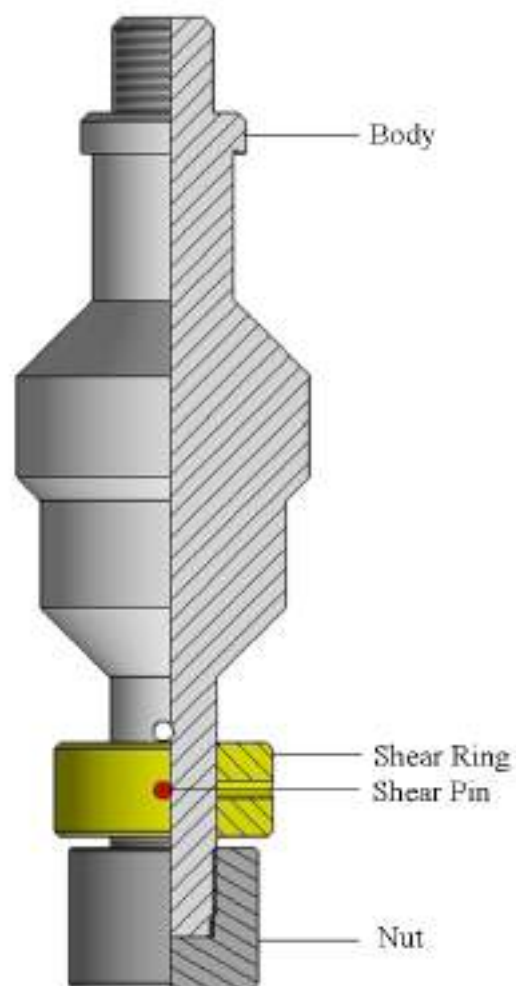
LOCKS AND LANDING NIPPLE SPECIFICATIONS

Kodiak's X / XN LANDING NIPPLES AND LOCKS															
TUBING								USED FOR STANDARD TUBING WEIGHTS						LOCK MAN- DREL ID	
SIZE		WEIGHT		ID		DRIFT		X PROFILE SEAL BORE		XN PROFILE SEAL BORE		NO-GO ID			
in	mm	lb/ft	kg/m	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1.050	26.67	1.20	1.79	0.824	20.93	0.730	18.54								
1.315	33.40	1.80	2.68	1.049	26.64	0.955	24.26								
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
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										
		2.90	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
2.375	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
2.875	73.03	4.70	7.00	2.441	62.00	2.347	59.61	2.313	58.75	2.313	58.75	2.205	56.01	1.38	35.05
		6.40	9.53												
3.500	88.90	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
		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
4.000	101.60	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

Kodiak's CHECK SET TOOL

ASSEMBLY DESCRIPTION

The Kodiak's Check Set Tool is used to insure that the Kodiak's X Locks (page A17) and Kodiak's R Locks (page A9) have been properly set in the appropriate Landing Nipple (page B1). Once the Kodiak's Check Set Tool has been successfully run with either a Kodiak's X or Kodiak's R Lock, its shear pin will be sheared. If the shear pin in the Kodiak's Check Set Tool is sheared, then the lock has been properly set into the corresponding Landing Nipple (page B1).





Kodiak's R CHECK SET TOOL

SPECIFICATIONS				
	1.710	1.781	1.875	2.000
Fishneck	1.375	1.375	1.375	1.375
Connection	15/16"-10	15/16"-10	15/16"-10	15/16"-10
Maximum O.D.	1.558	1.705	1.750	1.921
Shear Pin	1/8" X 3/4"	1/8" X 3/4"	1/8" X 7/8"	1/8" X 7/8"

SPECIFICATIONS				
	2.125	2.188	2.313	2.562
Fishneck	1.375	1.375	1.375	1.750
Connection	15/16"-10	15/16"-10	15/16"-10	1-1/16"-10
Maximum O.D.	2.029	2.160	2.160	2.450
Shear Pin	3/16" X 1-1/8"	3/16" X 1-1/8"	3/16" X 1-1/2"	3/16" X 1-1/2"

SPECIFICATIONS				
	2.750	2.813	3.437	3.688
Fishneck	1.750	1.750	1.750	1.750
Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10
Maximum O.D.	2.661	2.715	3.332	3.577
Shear Pin	3/16" X 1-1/2"	3/16" X 1-1/2"	3/16" X 2-1/8"	1/4" X 2-1/2"

SPECIFICATIONS				
	4.125	4.313	4.562	
Fishneck	1.750	1.750	2.313	
Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10	
Maximum O.D.	3.920	4.194	4.375	
Shear Pin	1/4" X 2-7/8"	1/4" X 2-3/4"	5/16" X 3"	



Kodiak X CHECK SET TOOL

SPECIFICATIONS				
	1.250	1.500	1.625	1.875
Fishneck	1.188	1.188	1.375	1.375
Connection	15/16"-10	15/16"-10	15/16"-10	15/16"-10
Maximum O.D.	1.162	1.450	1.526	1.750
Shear Pin	1/8" X 5/8"	1/8" X 3/4"	1/8" X 3/4"	1/8" X 1"

SPECIFICATIONS				
	2.313	2.750	2.813	3.313
Fishneck	1.375	1.375	1.375	1.750
Connection	15/16"-10	15/16"-10	15/16"-10	1-1/16"-10
Maximum O.D.	2.160	2.160	2.160	2.450
Shear Pin	3/16" X 1-1/2"	3/16" X 1-1/8"	3/16" X 1-1/2"	3/16" X 1-1/2"

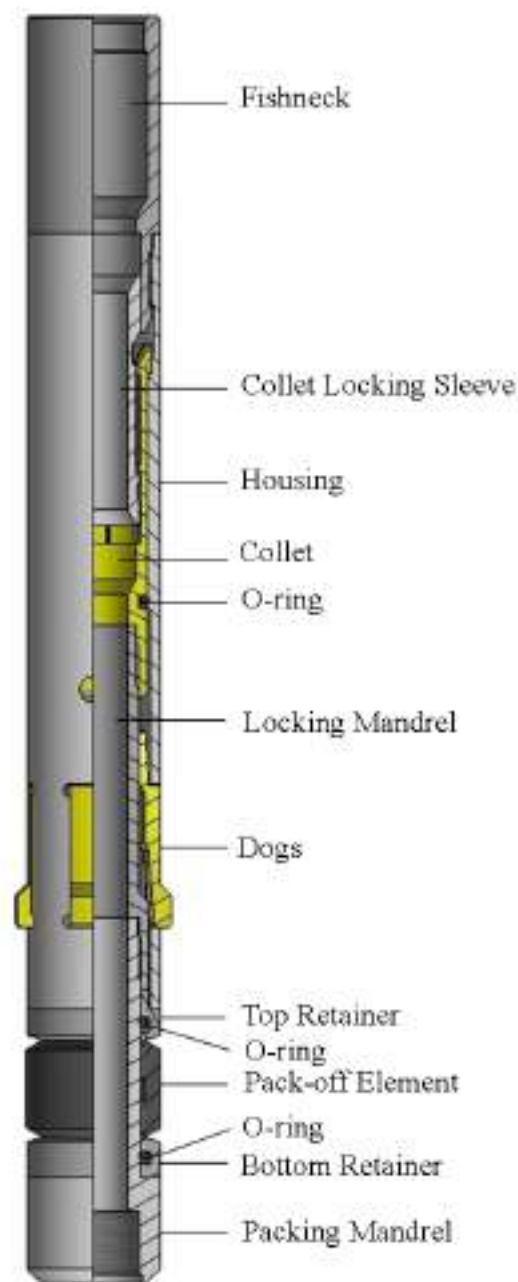
SPECIFICATIONS				
	3.813	4.313	4.562	
Fishneck	1.750	1.750	2.313	
Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10	
Maximum O.D.	3.625	4.102	4.375	
Shear Pin	1/4" X 2-3/4"	1/4" X 2-3/4"	1/4" X 3-5/16"	

Kodiak's D LOCK

ASSEMBLY DESCRIPTION

The Kodiak's D Lock is used to land and lock in any collar recess of A.P.I. collared tubing. Once the Packoff Element has been mechanically locked in the set position, pressure can be held from above and below. It can be used with pump thru plugs, positive plugs, safety valves, standing valves, and packoffs.

Packoff elements are available in a full range of rubber material to meet well-specific conditions. The standard material is NBR. Consult the Elastomer Chart (page U7) to see all possible compounds.





Kodiak's D LOCK

SPECIFICATIONS			
	2.000	2.500	3.000
Fishneck	1.375	1.813	1.313
Connection	1-5/16"-18	1-21/32"-14	2-1/8"-12
Maximum O.D.	1.840	1.813	2.313
Minimum I.D.	0.938	1.375	1.750
Running Tool	DRTBT-02000-01	DRTBT-02500-01	DRTBT-03000-01
Pulling Tool	GSPT-02000-01	GSPT-02500-01	GSPT-03000-01

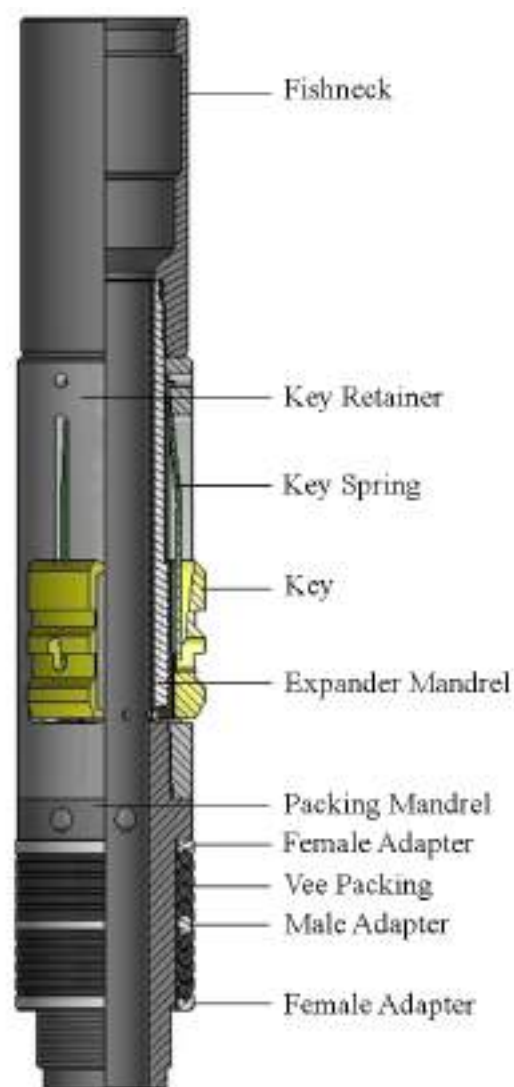
Kodiak's R / RN LOCK

ASSEMBLY DESCRIPTION

The Kodiak's R Lock is a selective lock that can be installed in R Landing Nipples (page B4). It is used in heavier weight tubing due to higher well pressure. The Kodiak's R / RN Lock's Packing Mandrel allows it to hold pressure from either above or below and its Keys engage a profile in the R Landing Nipple.

The Kodiak's RN Lock is the No-Go version of the Kodiak's R Lock. The keys have an angled shoulder, designed to fit into the bore restriction of the RN Landing Nipple (page B5). All Kodiak's R / RN Locks come standard in 9 Chrome. Other materials are available on request.

Assemblies with different packing configurations are available; however due to different material densities packing will not always have the same stack height. When ordering redresses with non-standard packing, please call to ensure that you order the correct number of pieces.





Kodiak's R / RN LOCK

SPECIFICATIONS				
	1.710	1.781	1.875	2.000
Fishneck	1.188	1.375	1.375	1.375
Connections	1-1/8"-16	1-3/8"-14	1-3/8"-14	1-3/8"-14
Minimum I.D.	0.750	0.875	0.875	0.875
Running Tool	RLRT-01710-01	RLRT-01781-01	RLTR-01875-01	RLRT-02000-01
Pulling Tool	GSPT-01500-01	GSPT-02000-01	GSPT-02000-01	GSPT-02000-01

SPECIFICATIONS				
	2.125	2.188	2.313	2.562
Fishneck	1.375	1.750	1.750	1.813
Connections	1-3/8"-14	1-3/4"-12	1-3/4"-12	2"-12 SLB
Minimum I.D.	0.875	1.125	1.125	1.375
Running Tool	RLRT-02125-01	RLRT-02188-01	RLRT-02313-01	RLRT-02562-01
Pulling Tool	GSPT-02000-01	GSPT-02500-01	GSPT-02500-01	GSPT-02500-01

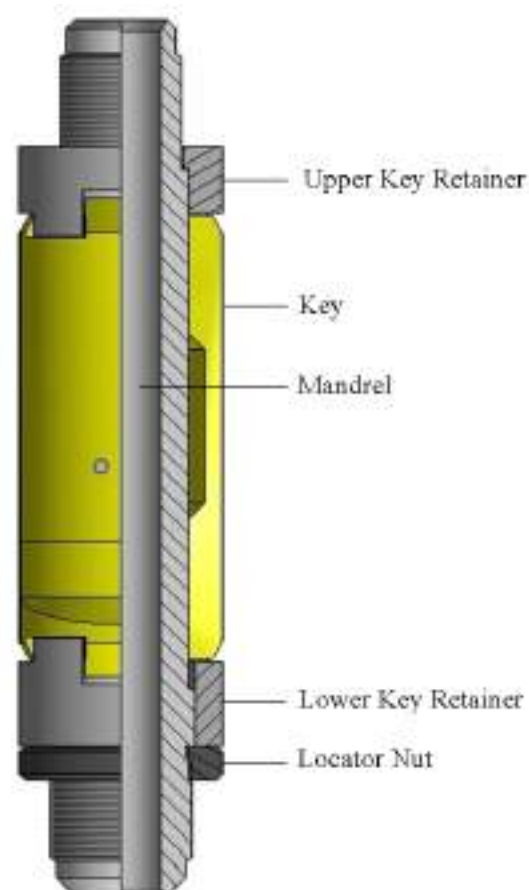
SPECIFICATIONS				
	2.750	2.813	3.437	3.688
Fishneck	2.313	2.313	2.625	3.125
Connections	2-1/4"-12 SLB	2-1/4"-12 SLB	2-3/4"-12 SLB	3-1/16"-12 SLB
Minimum I.D.	1.500	1.500	1.940	2.375
Running Tool	RLRT-02750-18	RLRT-02813-01	RLRT-03437-18	RLRT-03688-01
Pulling Tool	GSPT-03000-01	GSPT-03000-01	GSPT-03500-01	GSPT-04000-01

SPECIFICATIONS				
	4.125	4.313	4.562	
Fishneck	3.125	3.125	4.000	
Connections	3-1/4"-12 SLB	4-1/16"-8 SLB	4"-12 SLB	
Minimum I.D.	2.750	2.620	2.850	
Running Tool	RLRT-04125-01	RLRT-04313-01	RLRT-04562-18	
Pulling Tool	GSPT-04000-01	GSPT-04000-01	GSPT-05000-01	

Kodiak's S LOCATOR

ASSEMBLY DESCRIPTION

The Kodiak's S Locator is made up to the bottom of the S Lock (page A13) to set in Kodiak's S Landing Nipples. By changing the position of the Keys, the operator may set the lock in one of five different nipples in the tubing string. The spring loaded Keys locate the corresponding Landing Nipple and prevent the lock from traveling out of the bottom of that nipple. Once this is accomplished, the lock would hold pressure from below. Please specify what position keys are required when ordering.





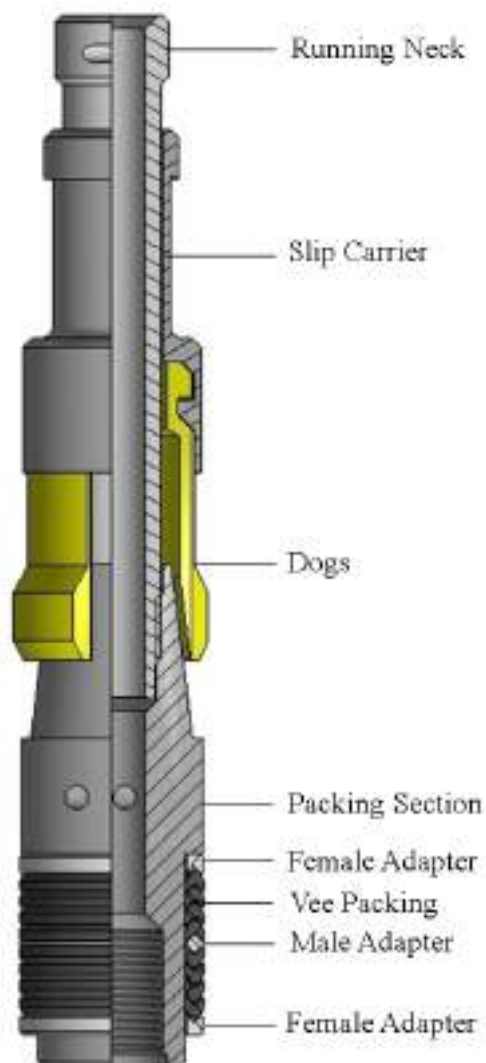
Kodiak's S LOCATOR

SPECIFICATIONS		
	1.875	2.313
Top Connection	1-1/8"-12	1-11/32"-14
Bottom Connection	1-3/16"-14	1-9/16"-12
Maximum O.D. (Keys Retracted)	1.813	2.203
Minimum I.D.	0.703	0.875

Kodiak's S LOCK

ASSEMBLY DESCRIPTION

The Kodiak's S Lock is used in conjunction with the Kodiak's S Locator (page A11) to lock into the polished seal bore of the Kodiak's S Landing Nipple. It can withstand pressure from above and below. It can be used with pump thru plugs, positive plugs, standing valves, and safety valves. The standard material for the Kodiak's S Lock is stainless steel. Consult the Vee Rings (page U8) to ensure that the proper packing is ordered.





Kodiak's S LOCK

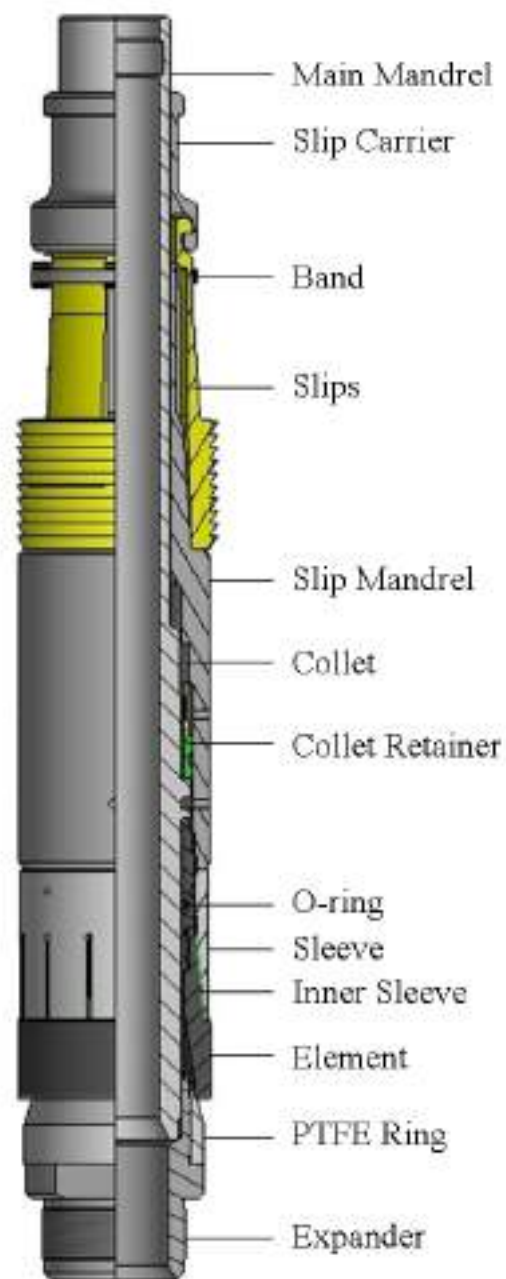
SPECIFICATIONS				
	1.250	1.500	1.625	1.875
Fishneck	1.000	1.187	1.188	1.375
Connections	11/16"-16	7/8"-14	7/8"-14	1-1/8"-12
Minimum I.D.	0.468	0.562	0.562	0.688
Running Tool	JRTBT-01250-01	JRTBT-01500-01	JRTBT-01500-01	JRTBT-02000-01
Pulling Tool	RSPT-01250-01 JUSBT-01250-01	RSPT-01500-01 JUSBT-01500-01	RSPT-01500-01 JUSBT-01500-01	RSPT-02000-01 JUSBT-02000-01

SPECIFICATIONS				
	2.313	2.875	3.813	
Fishneck	1.750	2.313	3.125	
Connections	1-11/32"-14	1-7/8"-12	2-3/4"-12	
Minimum I.D.	0.875	1.500	2.250	
Running Tool	JRTBT-02500-01	JRTBT-03000-01	JRTBT-04000-01	
Pulling Tool	RSPT-02500-01 JUSBT-02500-01	RSPT-03000-01 JUSBT-03000-01	RSPT-04000-01 JUSBT-04000-01	

Kodiak's W LOCK

ASSEMBLY DESCRIPTION

The Kodiak's WLock is used in wells that are not equipped with Landing Nipples (page B1) during completion. They are attached to the wall of the tubing and during the running procedure, its Element is expanded to seal against the tubing wall. It can only hold a differential pressure from below.





Kodiak's W LOCK

SPECIFICATIONS			
	1.500	1.750	2.000
Fishneck	1.188	1.188	1.375
Connections	7/8"-14	7/8"-14	1-9/16"-12
Maximum O.D. (Slips Expanded)	1.703	1.820	2.078
Maximum O.D. (Slips Retracted)	1.480	1.590	1.859
Minimum I.D.	0.562	0.562	0.562
Roll Pin	1/8" X 1/4"	1/8" X 1/4"	1/8" X 3/8"
Shear Pin	1/8" X 5/16"	1/8" X 5/16"	3/16" X 1/2"
Running Tool	RBPT-01500-01	RBPT-01500-01	RBPT-02500-01
Pulling Tool	JUCBT-01500-01	JUCBT-01500-01	JUCBT-02500-01

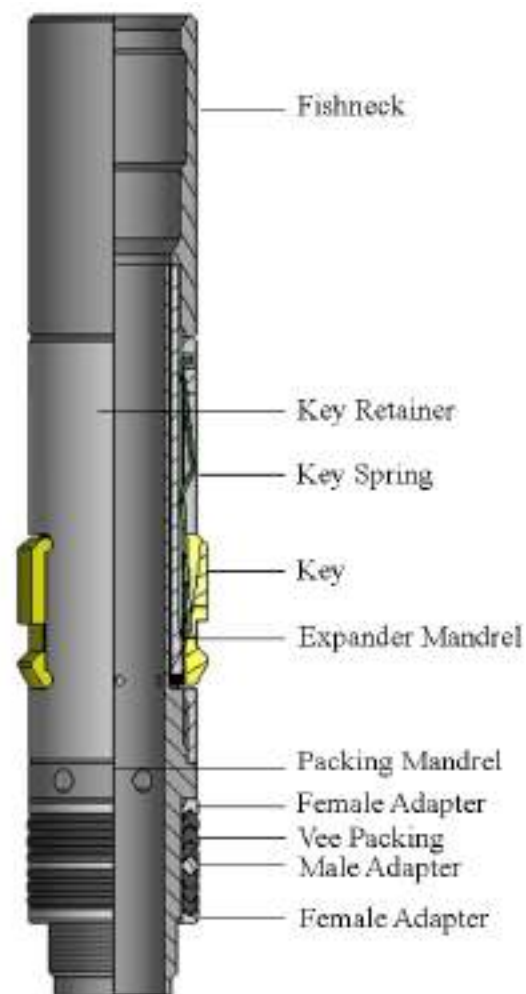
SPECIFICATIONS			
	2.500	3.000	4.000
Fishneck	1.750	2.313	3.125
Connections	2"-12	2"-12	2-7/8"-12
Maximum O.D. (Slips Expanded)	2.540	3.075	3.510
Maximum O.D. (Slips Retracted)	2.300	2.844	3.275
Minimum I.D.	0.891	1.375	1.750
Roll Pin	1/8" X 1/2"	1/8" X 1/2"	1/8" X 1-1/2"
Shear Pin	3/16" X 1/2"	3/16" X 1/2"	3/16" X 1/2"
Running Tool	RBPT-02500-01	RBPT-03000-01	RBPT-04000-01
Pulling Tool	JUCBT-02500-01	JUCBT-03000-01	JUCBT-04000-01

Kodiak's X / XN LOCK

ASSEMBLY DESCRIPTION

The Kodiak's X Lock is a selective lock that can be installed in X Landing Nipples (page B6). It is used in standard weight tubing. This lock uses Keys to engage a profile in the Landing Nipple and an integrated Packing Mandrel that allows it to hold pressure from either above or below. This lock can be used in conjunction with pump thru plugs, positive plugs, safety valves, and standing valves.

The Kodiak's XN Lock is the No-Go version of the Kodiak's X Lock. The Keys have an angled shoulder, designed to fit into the bore restriction of the XN Landing Nipple (page B7).





Kodiak's X / XN LOCK

SPECIFICATIONS				
	1.250	1.500	1.625	1.875
Fishneck	0.875	1.625	1.625	1.375
Connections	7/8"-20	1-1/8"-16	1-1/8"-16	1-3/8"-16
Minimum I.D.	0.620	0.750	0.750	1.000
Running Tool	XLRT-01250-01	XLRT-01500-01	XLRT-01625-01	XLRT-01875-01
Pulling Tool	GSPT-01250-01	GSPT-01500-01	GSPT-01500-01	GSPT-02000-01

SPECIFICATIONS				
	2.313	2.750	2.813	3.313
Fishneck	1.813	2.313	2.313	2.625
Connections	1-3/4"-12	2-1/4"-12 SLB	2-1/4"-12	2-3/4"-12 SLB
Minimum I.D.	1.375	1.750	1.750	2.125
Running Tool	XLRT-02313-01	XLRT-02750-01	XLRT-02813-01	XLRT-03313-18
Pulling Tool	GSPT-02500-01	GSPT-03000-01	GSPT-03000-01	GSPT-03500-18

SPECIFICATIONS				
	3.813	4.313	4.562	
Fishneck	3.125	3.125	4.000	
Connections	3-1/16"-12 SLB	3-1/4"-12 SLB	4"-12 SLB	
Minimum I.D.	2.625	2.625	3.125	
Running Tool	XLRT-03813-18	XLRT-04313-18	XLRT-04562-18	
Pulling Tool	GSPT-04000-18	GSPT-04000-18	GSPT-05000-18	



LOCKS AND LANDING NIPPLE SPECIFICATIONS

Kodiak's R / RN LANDING NIPPLES AND LOCKS															
TUBING								USED FOR HEAVY TUBING WEIGHTS						LOCK MAN- DREL ID	
SIZE		WEIGHT		ID		DRIFT		R PROFILE SEAL BORE		RN PROFILE SEAL 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	3.02	4.50	1.278	32.46	1.184	30.07	1.125	28.58	1.125	28.58	1.012	25.70		
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								
		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	2.188	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								
		8.90	13.26	2.243	56.97	2.149	54.58	2.125	53.98	2.125	53.98	1.937	49.20		
		9.50	14.15	2.196	55.75	2.101	53.37								
		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								
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		
		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								
		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		
		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		
		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								
		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	24.17	3.754	95.35	3.629	92.18								
5.000	127.00	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
		15.00	22.34	4.408	111.96	4.283	108.79	4.125	104.78	4.125	104.78	3.913	99.39	2.75	69.85
5.500	139.70	18.00	26.81	4.276	108.61	4.151	105.44	4.000	101.60	4.000	101.60	3.748	95.20	2.38	60.45
		17.00	25.32	4.892	124.26	4.767	121.08	4.562	115.87	4.562	115.87	4.455	113.16	2.85	72.39
		20.00	29.79	4.778	121.36	4.653	118.19								
6.000	152.40	23.00	34.26	4.670	118.62	4.545	115.44	4.313	109.55	4.313	109.55	3.987	101.27	2.62	66.55
		15.00	22.34	5.524	140.31	5.399	137.13								
6.625	168.28	18.00	26.81	5.424	137.77	5.299	134.59	5.250	133.35	5.250	133.35	5.020	127.51	3.50	88.90
		24.00	35.75	5.921	150.39	5.796	147.22								
7.000	177.80	28.00	41.71	5.791	147.09	5.666	143.92	5.625	142.88	5.625	142.88	5.500	139.70	3.50	88.90
		17.00	25.32	6.538	166.07	6.431	163.35								
		20.00	29.79	6.456	163.98	6.331	160.81								
		23.00	34.26	6.366	161.70	6.241	158.52	5.962	151.43	5.962	151.43	5.750	146.05	3.75	95.25
		26.00	38.73	6.276	159.41	6.151	156.24								
		29.00	43.20	6.184	157.07	6.059	153.90								
		32.00	47.66	6.094	154.79	6.969	177.01								
8.625	219.08	35.00	52.13	6.004	152.50	5.879	149.33	5.875	149.23	5.875	149.23				
								7.450	189.23	7.450	189.23	7.325	186.06		
								7.250	184.15	7.250	184.15	7.125	180.98	5.250	133.35
								7.050	179.07	7.050	179.07	6.925	175.90		



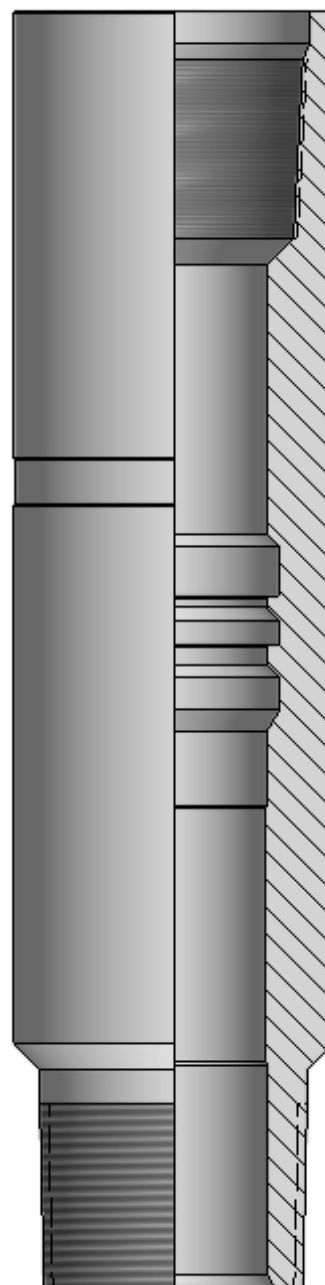
LOCKS AND LANDING NIPPLE SPECIFICATIONS

Kodiak's X / XN LANDING NIPPLES AND LOCKS															
TUBING								USED FOR STANDARD TUBING WEIGHTS						LOCK MAN- DREL ID	
SIZE		WEIGHT		ID		DRIFT		X PROFILE SEAL BORE		XN PROFILE SEAL BORE		NO-GO ID			
in	mm	lb/ft	kg/m	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1.050	26.67	1.20	1.79	0.824	20.93	0.730	18.54								
1.315	33.40	1.80	2.68	1.049	26.64	0.955	24.26								
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
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										
		2.90	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
2.375	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
2.875	73.03	4.70	7.00	2.441	62.00	2.347	59.61	2.313	58.75	2.313	58.75	2.205	56.01	1.38	35.05
		6.40	9.53												
3.500	88.90	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
		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
4.000	101.60	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

Kodiak's R LANDING NIPPLE

ASSEMBLY DESCRIPTION

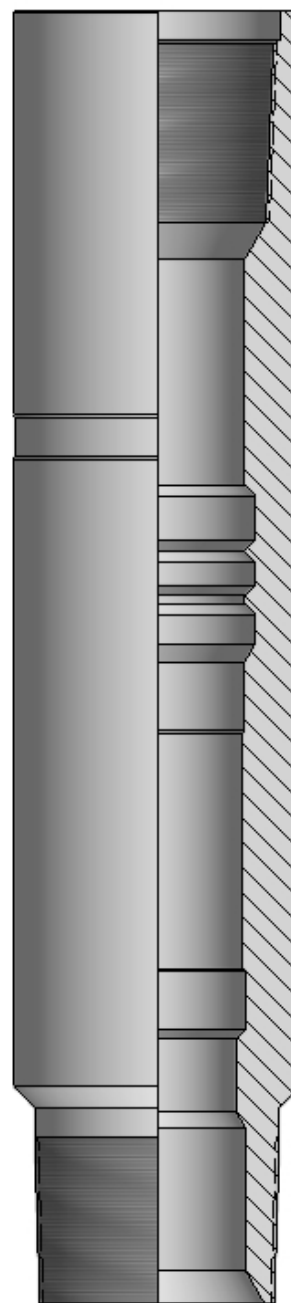
The Kodiak's R Landing Nipples are used to land, lock, and seal Kodiak's R Locks (page A9) with attached flow control devices in the production tubing string. The internal profile includes a selective profile, a locking recess, and a polished bore. The R Landing Nipple can either have Pin X Pin connections, or Box X Pin connections, based upon customer requirements. Standard and premium connections are also available. Kodiak's has R Landing Nipples in 4140 L80 and 9 Chrome materials in stock, however other materials are available upon request. Kodiak's can customize its R Landing Nipple to fit to any customer specified seal bore or Plug (page C1) customization.



Kodiak's RN LANDING NIPPLE

ASSEMBLY DESCRIPTION

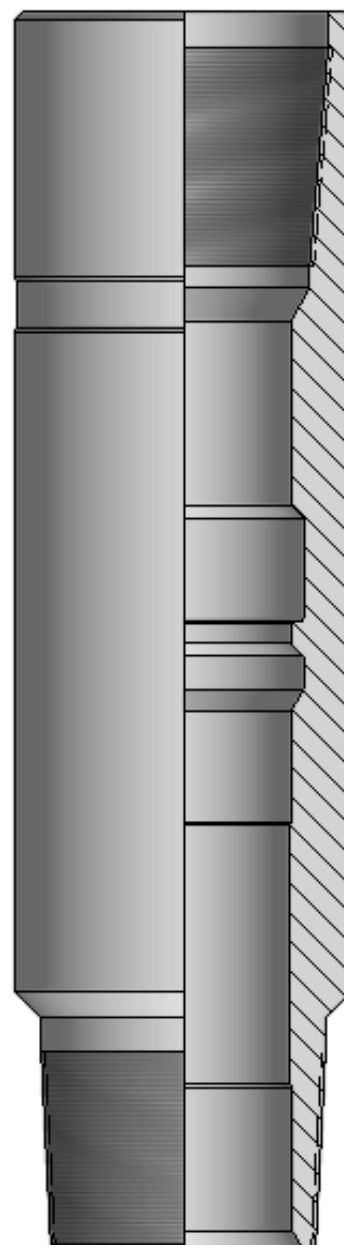
The Kodiak's RN Landing Nipples include a lower No-Go shoulder, which engages the No-Go of the Kodiak's RN Lock (page A9). The internal profile includes a selective profile, a locking recess, and a polished bore. It is normally used as the lowest Landing Nipple in a completion. The Kodiak's RN Landing Nipple can either have Pin X Pin connections, or Box X Pin connections, based upon customer requirements. Standard and premium connections are also available. Kodiak's has RN Landing Nipples in 4140 L80 and 9 Chrome materials in stock, however other materials are available upon request. Kodiak's can customize its RN Landing Nipple to fit to any customer specified seal bore or Plug (page C1) customization.



Kodiak's X LANDING NIPPLE

ASSEMBLY DESCRIPTION

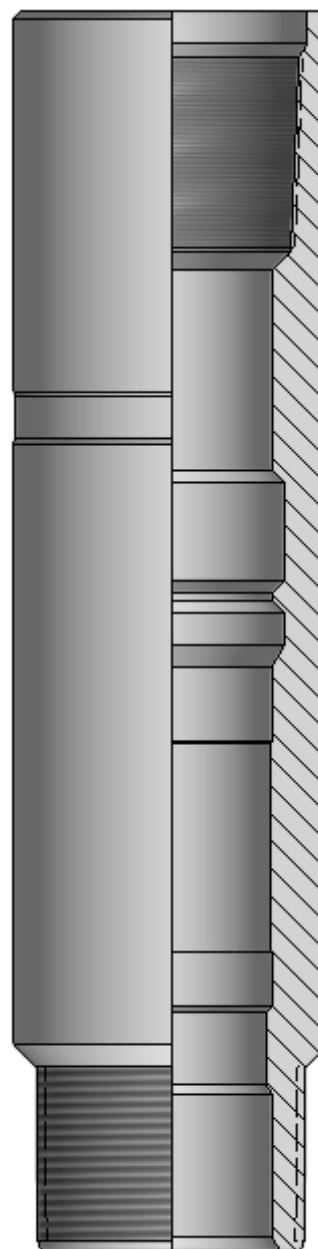
The Kodiak's X Landing Nipples are fully selective nipples used to land, lock, and seal Kodiak's X Locks (page A17) with attached flow control devices in the production tubing string. The internal profile includes a selective profile, a locking recess, and a polished bore. The Kodiak's X Landing Nipple can either have Pin X Pin connections, or Box X Pin connections, based upon customer requirements. Standard and premium connections are also available. Kodiak's has X Landing Nipples in 4140 L80 and 9 Chrome materials in stock, however other materials are available upon request. Kodiak's can customize its X Landing Nipple to fit to any customer specified seal bore or Plug (page C1) customization.



Kodiak's XN LANDING NIPPLE

ASSEMBLY DESCRIPTION

The Kodiak's XN Landing Nipples include a lower No-Go shoulder, which engages the No-Go of the Kodiak's XN Lock (page A17), a locking recess, and a polished bore. It is normally used as the lowest landing nipple in a compilation. The Kodiak's XN Landing Nipple can either have Pin X Pin connections, or Box X Pin connections, based upon customer requirements. Standard and premium connections are also available. Kodiak's has XN Landing Nipples in 4140 L80 and 9 Chrome materials in stock, however other materials are available upon request. Kodiak's can customize its XN Landing Nipple to fit to any customer specified seal bore or Plug (page C1) customization.

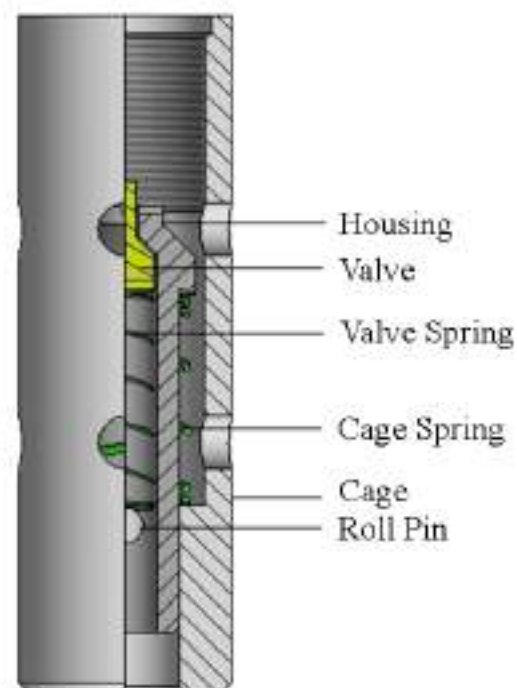


Kodiak's C PLUG

ASSEMBLY DESCRIPTION

The Kodiak's C Plug is an equalizing assembly that is used in conjunction with various sub surface controls such as Locks (page A1) and Tubing Mandrels. The C Equalizing Plug holds pressure from below only and can be used as a pump thru plug.

An equalizing Prong (page M1) will push the C Equalizing Plug's Valve off seat, which will allow pressure equalization.





Kodiak's C PLUG

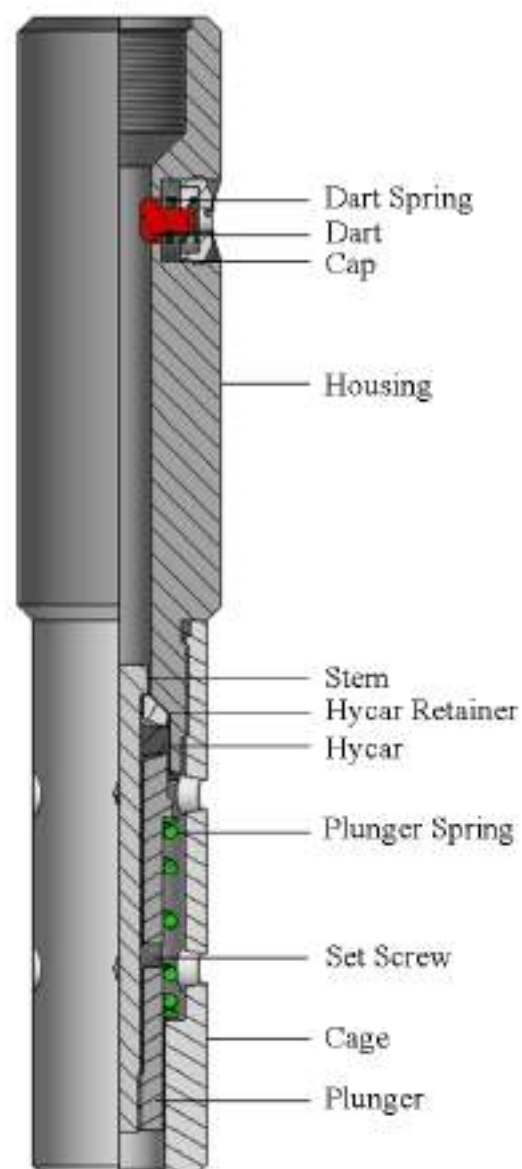
SPECIFICATIONS			
	1.500	2.000	2.500
Connections	7/8"-14	1-3/16"-14	1-9/16"-12
Flow Area (in ²)	0.0035	0.0075	0.0075
Roll Pin	1/8" x 1/2"	1/4" x 3/4"	1/4" x 7/8"

Kodiak's D PLUG

ASSEMBLY DESCRIPTION

The Kodiak's D Plug is an equalizing assembly that is used in conjunction with various subsurface controls such as Locks (page A1) and Tubing Mandrels. The D Equalizing Plug holds pressure from below only and can be used as a pump thru plug.

An equalizing Prong (page M1) will push the D Equalizing Plug off seat which will then allow pressure equalization.





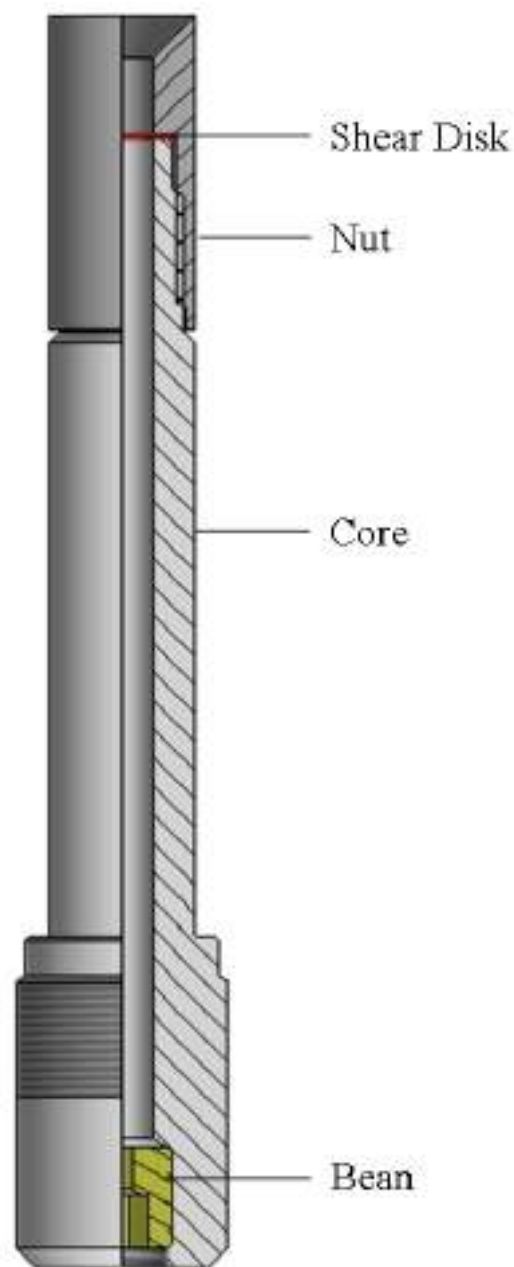
Kodiak's D PLUG

SPECIFICATIONS			
	2.000	2.500	3.000
Connections	1-3/16"-14	1-9/16"-12	1-9/16"-12
Maximum O.D.	1.750	2.125	2.620
I.D. Bore	0.531	0.719	1.316

DD BRIDGE PLUG

ASSEMBLY DESCRIPTION

The Kodiak's DD Bridge Plug is an equalizing assembly used in conjunction with a Kodiak's D Lock (page A7). The DD Bridge Plug holds pressure from above and below. An equalizing Prong (page M1) is used to shear the disc allowing pressure equalization.





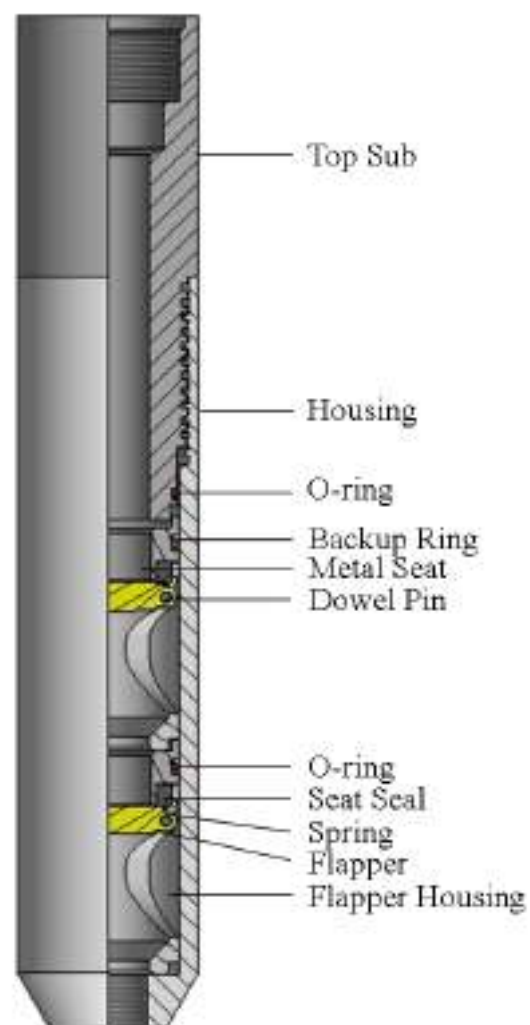
DD BRIDGE PLUG

SPECIFICATIONS			
	2.000	2.500	3.000
Connections	1-5/16"-18	1-21/32"-14	2-1/8"-12

DUAL-FLAPPER PUMP THRU PLUG

ASSEMBLY DESCRIPTION

The Kodiak's Dual-Flapper Pump Thru Plug is used to prevent pressure from pushing up through the assembly. This tool can be used in conjunction with a Kodiak's R Lock (page A9) or a Kodiak's X Lock (page A17). An equalizing Prong (page M1) is used to knock the collet of the XX or RR Equalizing Sub off seat, which will then allow pressure equalization.





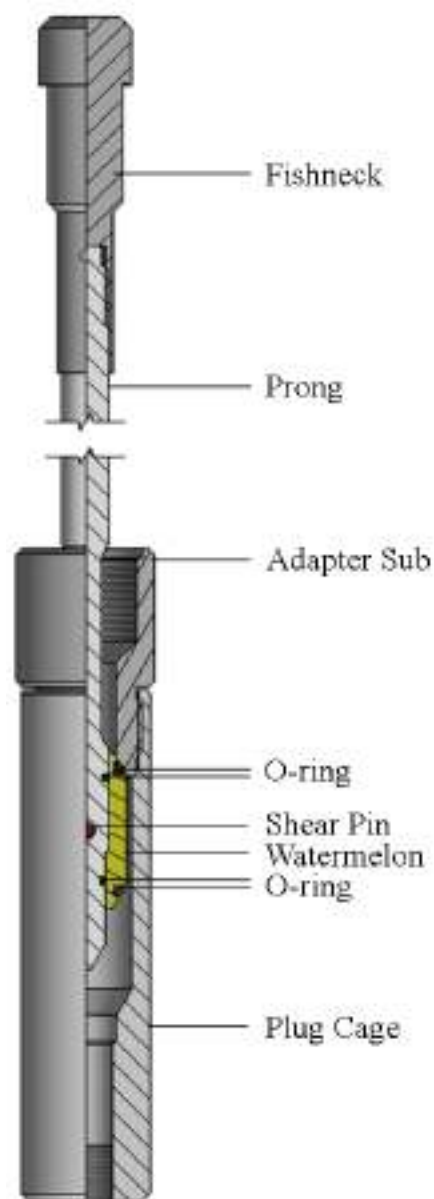
DUAL-FLAPPER PUMP THRU PLUG

SPECIFICATIONS				
	1.500	1.710	1.875	2.313
Fishneck	1.330	1.490	1.740	2.130
Top Connection	1-1/8"-16	1-1/8"-16	1-3/8"-14	1-3/4"-12
Bottom Connection	3/8" NPT	3/8" NPT	1/2" NPT	3/4 NPT

Kodiak's PN PLUG

ASSEMBLY DESCRIPTION

The Kodiak's PN Plug is a device used in conjunction with Kodiak's N Locks to hold pressure from above and below. When the Prong is pulled, pressure is equalized.





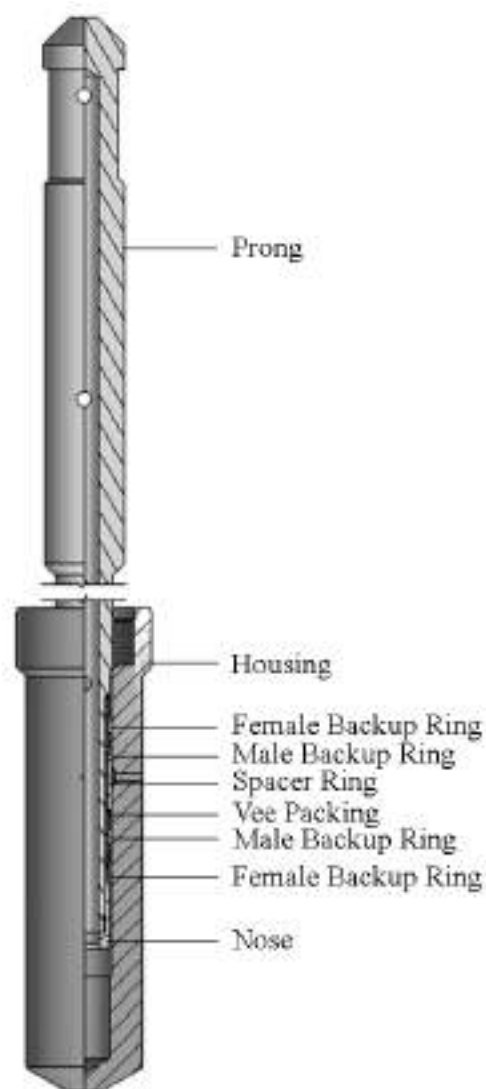
Kodiak's PN PLUG

SPECIFICATIONS			
	2.000	2.500	3.000
Fishneck	1.000	1.000	1.750
Top Connection	1-3/16"-14	1-9/16"-12	2"-12
Bottom Connection	3/8" NPT	3/8" NPT	3/8" NPT
Maximum O.D.	1.500	2.000	2.500
Shear Pin	3/16" x 7/8"	3/16" X 7/8"	3/16" X 7/8"
Pulling Tool	JDCBT-01375-01	JDCBT-01375-01	JDCBT-01375-01

Kodiak's PR PLUG

ASSEMBLY DESCRIPTION

The Kodiak's PR Plug is a positive plug used with Kodiak's R Locks (page A9). The Kodiak's PR Plug holds pressure from above and below. When the Prong is pulled, pressure is equalized.





Kodiak's PR PLUG

SPECIFICATIONS				
	1.710	1.781	1.875	2.125
Fishneck	1.187	1.187	1.187	1.187
Connections	1-1/8"-16	1-3/8"-14	1-3/8"-14	1-3/8"-14
No-Go O.D.	1.700	1.770	1.865	2.115
Running/Pulling Tool	JDCBT-01500-01 SBPT-01500-01	JDCBT-01500-01 SBPT-01500-01	JDCBT-01500-01 SBPT-01500-01	JDCBT-01500-01 SBPT-01500-01

SPECIFICATIONS				
	2.188	2.313	2.562	2.750
Fishneck	1.375	1.375	1.375	1.375
Connections	1-3/4"-12	1-3/4"-12	2"-12	2-1/2"-12
No-Go O.D.	2.175	2.300	2.550	2.740
Running/Pulling Tool	JDCBT-02000-01 SBPT-02000-01	JDCBT-02000-01 SBPT-02000-01	JDCBT-02000-01 SBPT-02000-01	JDCBT-02000-01 SBPT-02000-01

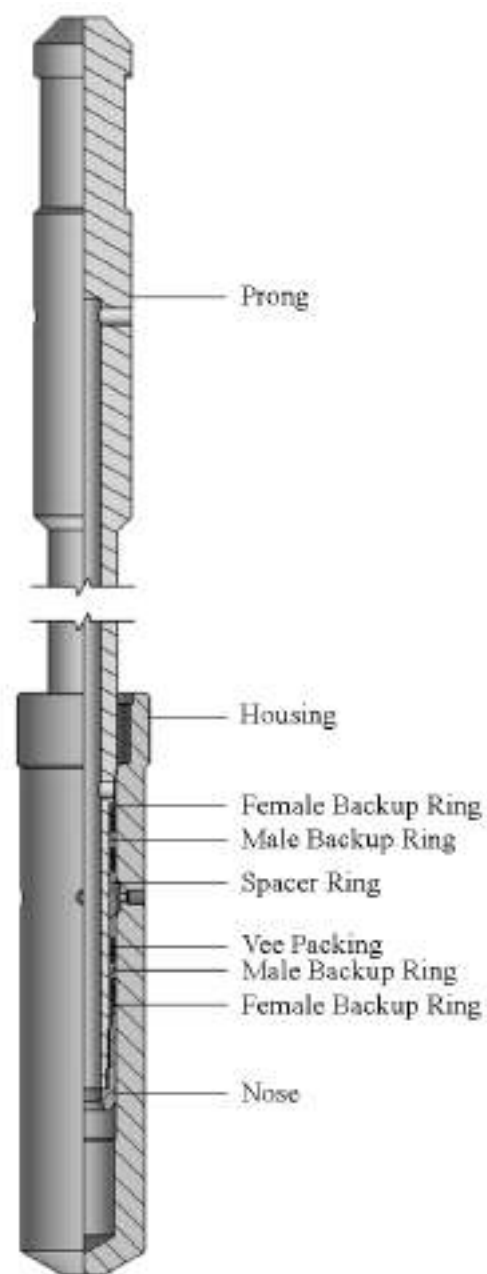
SPECIFICATIONS				
	2.813	2.875	3.437	3.688
Fishneck	1.375	1.375	1.750	1.375
Connections	2-1/4"-12	2-1/4"-12	2-3/4"-12	3-1/16"-12
No-Go O.D.	2.803	2.866	3.425	3.670
Running/Pulling Tool	JDCBT-02000-01 SBPT-02000-01	JDCBT-02000-01 SBPT-02000-01	JDCBT-02500-01 SBPT-02500-01	JDCBT-02000-01 SBPT-02000-01

SPECIFICATIONS				
	3.813	4.125	4.562	
Fishneck	2.313	2.313	2.313	
Connections	3-1/16"-12	3-1/4"-12	3-3/4"-12	
No-Go O.D.	3.805	4.120	4.550	
Running/Pulling Tool	JDCBT-03000-01 SBPT-03000-01	JDCBT-03000-01 SBPT-03000-01	JDCBT-03000-01 SBPT-03000-01	

Kodiak's PX PLUG

ASSEMBLY DESCRIPTION

The Kodiak's PX Plug is a positive plug used with a Kodiak's X Lock (page A17). It can be used to test tubing or plug tubing for repairs or replacements. Pulling the Prong from the assembly achieves equalization.





Kodiak's PX PLUG

SPECIFICATIONS				
	1.500	1.625	1.875	2.313
Fishneck	1.000	1.000	1.375	1.375
Connections	1-1/8"-16	1-1/8"-16	1-3/8"-14	1-3/4"-12
No-Go O.D.	1.490	1.615	1.865	2.300

SPECIFICATIONS				
	2.750	2.813	2.875	3.313
Fishneck	1.375	1.375	1.375	1.375
Connections	2-1/4"-12 SLB	2-1/4"-12 SLB	2-1/4"-12 SLB	2-3/4"-12 SLB
No-Go O.D.	2.740	2.800	2.870	3.307

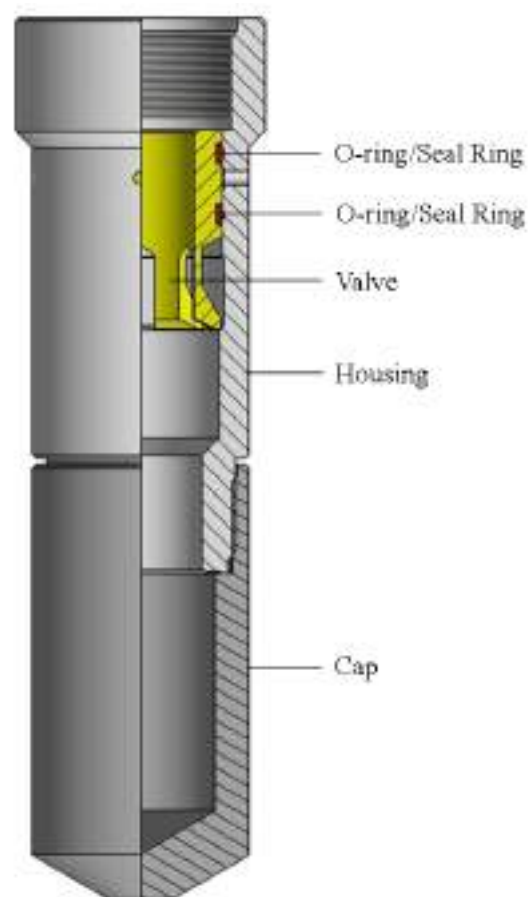
SPECIFICATIONS				
	3.813	4.313	4.562	
Fishneck	2.313	3.125	3.125	
Connections	3-1/16"-12 SLB	3-1/4"-12 SLB	3-3/4"-12 SLB	
No-Go O.D.	3.805	4.307	4.556	

Kodiak's R PLUG

ASSEMBLY DESCRIPTION

The Kodiak's R Plug is a positive plug used in conjunction with the Kodiak's R Lock (page A9) to hold pressure from above and below. This plug can be used to test tubing or to plug tubing while doing repairs to surface equipment.

An equalizing Prong (page M1) is used to knock the collet off seat of the Kodiak's RR Equalizing Sub which allows pressure equalization.





Kodiak's R PLUG

SPECIFICATIONS				
	1.710	1.781	1.875	2.000
Connection	1-1/8"-16	1-3/8"-14	1-3/8"-14	1-3/8"-14
No-Go O.D.	1.700	1.770	1.865	1.990

SPECIFICATIONS				
	2.125	2.188	2.313	2.562
Connection	1-3/8"-14	1-3/4"-12	1-3/4"-12	2"-12
No-Go O.D.	2.115	2.175	2.300	2.550

SPECIFICATIONS				
	2.750	2.813	3.437	3.688
Connection	2-1/4"-12 SLB	2-1/4"-12 SLB	2-3/4"-12 SLB	2-3/16"-12 SLB
No-Go O.D.	2.740	2.803	3.425	3.670

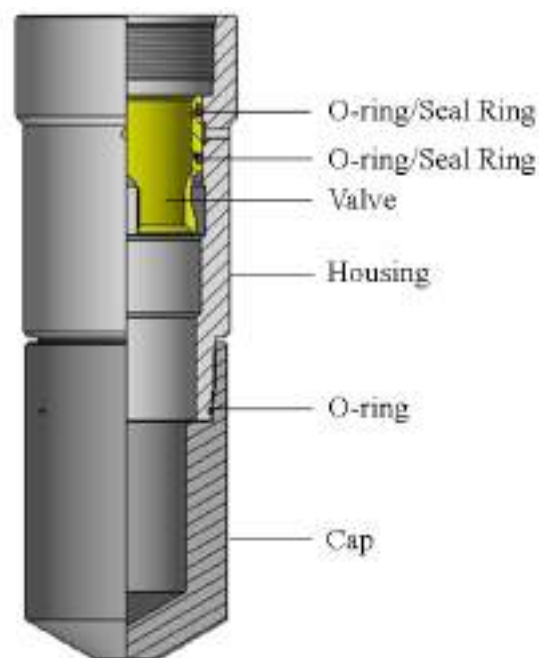
SPECIFICATIONS				
	3.813			
Connection	3-1/16"-12 SLB			
No-Go O.D.	3.805			

Kodiak's X PLUG

ASSEMBLY DESCRIPTION

The Kodiak's X Plug is a positive plug used in conjunction with the Kodiak's X Lock (page A17) to hold pressure from above and below. This plug can be used to test tubing or to plug tubing while doing repairs to surface equipment.

An equalizing Prong (page M1) is used to knock the collet off seat of the XX Equalizing Sub which allows pressure equalization.





Kodiak's X PLUG

SPECIFICATIONS			
	1.500	1.625	1.875
Connection	1-1/8"-16	1-1/8"-16	1-3/8"-14
No-Go O.D.	1.490	1.615	1.865

SPECIFICATIONS			
	2.313	2.750	2.813
Connection	1-3/4"-12	2-1/4"-12 SLB	2-1/4"-12 SLB
No-Go O.D.	2.300	2.740	2.800

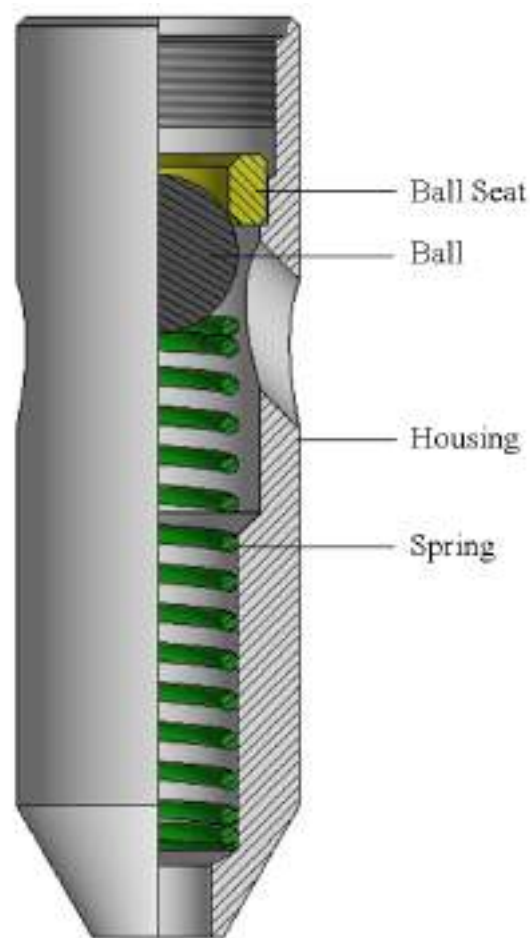
SPECIFICATIONS			
	3.313	3.813	4.562
Connection	2-3/4"-12 SLB	3-1/16"-12 SLB	4"-12 SLB
No-Go O.D.	3.300	3.800	4.552

Kodiak's XR PUMP THRU PLUG

ASSEMBLY DESCRIPTION

The Kodiak's XR Pump Thru Plug is a Ball, Seat, and Spring style pump thru plug. It is used in conjunction with Locks (page A1) and other equalizing devices. The Kodiak's XR Pump Thru Plug holds pressure from below.

An equalizing Prong (page M1) is used to knock the collet of the XX or RR Equalizing Sub off seat which then allows pressure equalization.





Kodiak's XR PUMP THRU PLUG

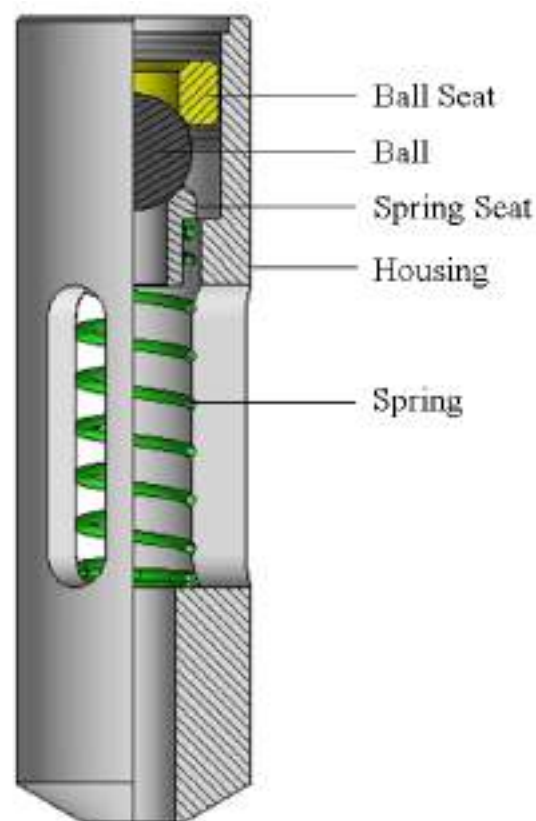
SPECIFICATIONS				
	1.500	2.000	2.500	3.000
Connection	1-1/8"-16	1-3/8"-14	1-3/4"-12	2-1/4"-12
Maximum O.D.	1.325	1.750	2.000	2.570

Kodiak's XR PUMP THRU PLUG (TYPE T)

ASSEMBLY DESCRIPTION

The Kodiak's XR Pump Thru Plug is a Ball, Seat, and Spring style pump thru plug. It is used in conjunction with Locks (page A1) and other equalizing devices. The Kodiak's XR Pump Thru Plug holds pressure from below.

An equalizing Prong (page M1) is used to knock the collet of the XX or RR Equalizing Sub off seat which then allows pressure equalization.





Kodiak's XR PUMP THRU PLUG (TYPE T)

SPECIFICATIONS				
	1.500	2.000	2.500	3.000
Connection	1-1/8"-16	1-3/8"-14	1-3/4"-12	2-1/4"-12
Maximum O.D.	1.325	1.750	2.000	2.570

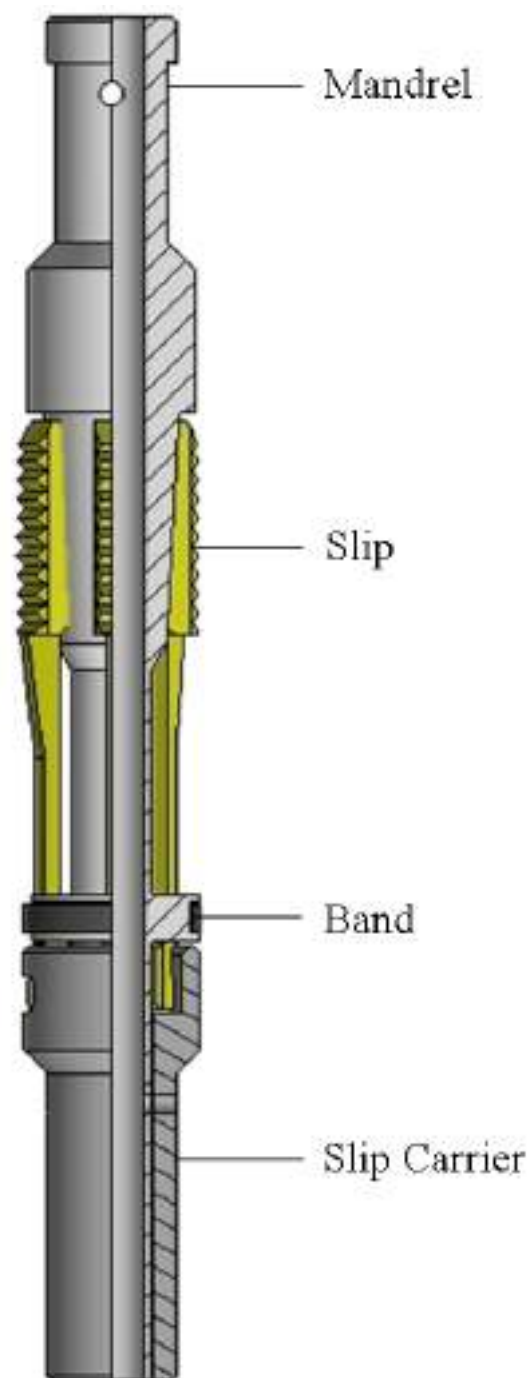
A TUBING STOP

ASSEMBLY DESCRIPTION

The A Tubing Stop is designed for use in integral joint tubing strings where a coupling recess is not available. It is used primarily as an anchoring device in packoff applications.

Kodiak's also manufactures the JD Pulling Tool (page J13) to both run and pull the A Tubing Stops.

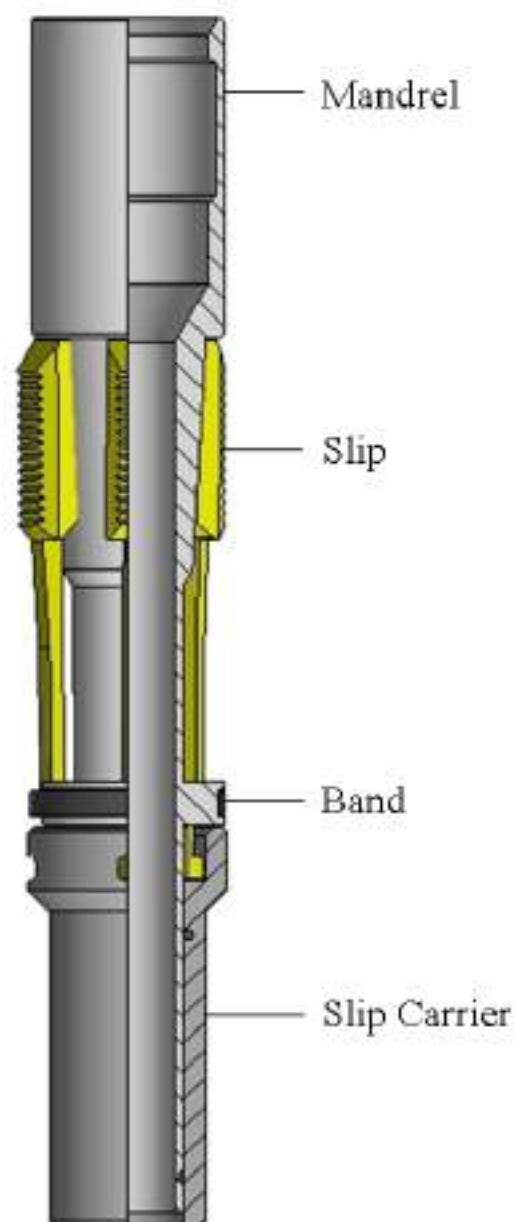
Please specify the size and weight of the tubing when ordering the A Tubing Stop.



A-1 TUBING STOP

ASSEMBLY DESCRIPTION

The A-1 Tubing Stop is similar to the A Tubing Stop (page D2), except the A-1 Tubing Stop has an internal fishneck. Kodiak's also manufactures the GS Pulling Tool (page J9) to both run and pull the A-1 Tubing Stops. Please specify the size and weight of the tubing when ordering the A-1 Tubing Stop.



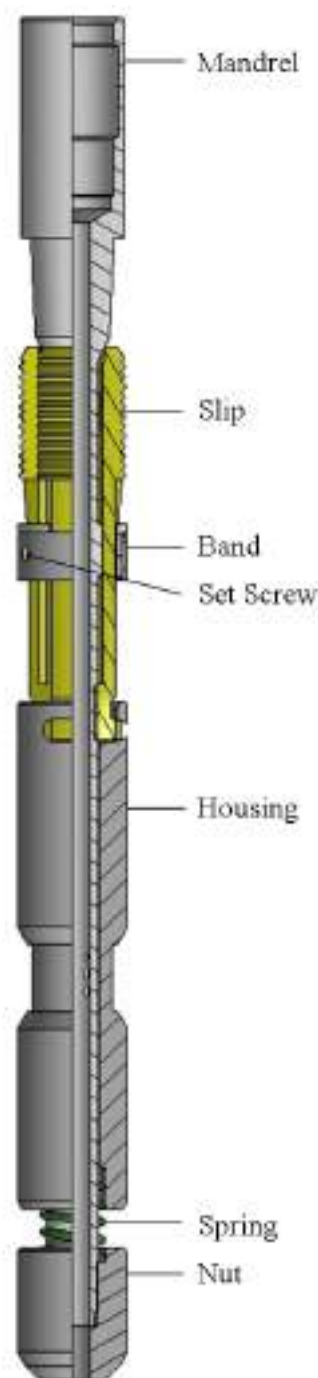
AD2 TUBING STOP

ASSEMBLY DESCRIPTION

The AD2 Tubing Stop is a spring loaded tubing stop designed for use in integral joint tubing strings where a coupling recess is not available. It is used primarily as an anchoring device in packoff applications.

Kodiak's also manufactures the JD Pulling Tool (page J13) to both run and pull the AD2 Tubing Stops.

Please specify the size and weight of the tubing when ordering the AD2 Tubing Stop.

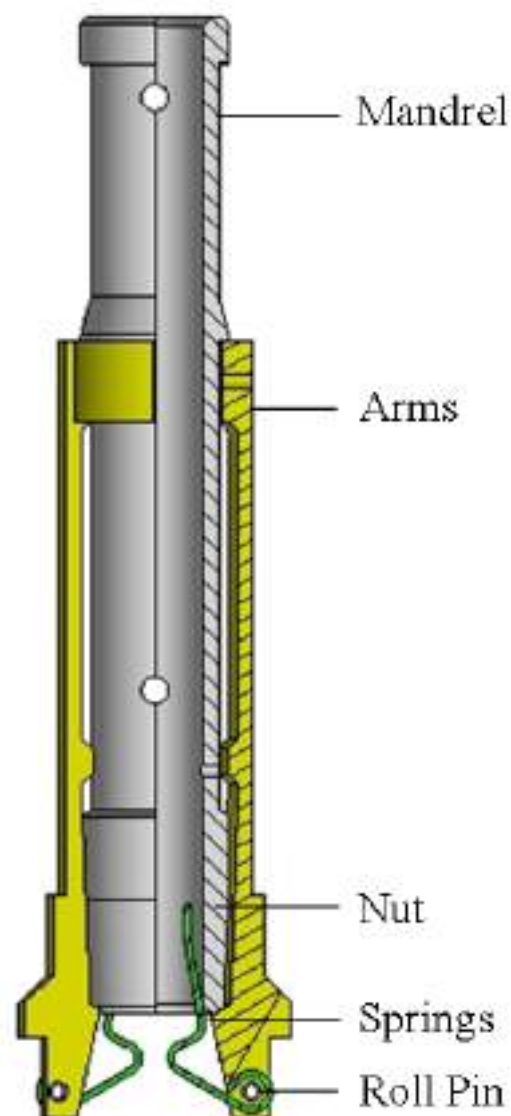


F COLLAR STOP

ASSEMBLY DESCRIPTION

The F Collar Stop locates in the recess of A.P.I. upset and non-upset tubing. The stop is lowered to the required depth, and then lifted upward. This motion will trip the latch springs, and the arms will then engage the collar recess. Jarring downward locks the arms into place.

Kodiak's also manufactures special F Collar Stops with threaded ends to connect to different pieces of toolstring.





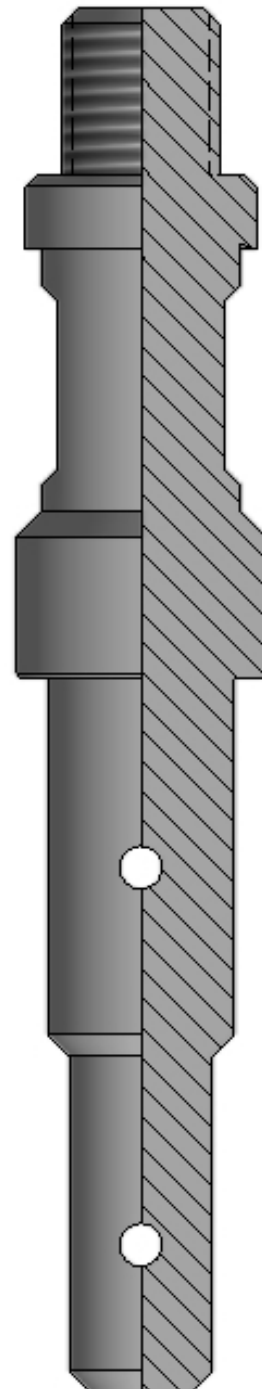
F COLLAR STOP

SPECIFICATIONS			
	2.000	2.500	3.000
Fishneck	1.375	1.750	2.313
Minimum I.D.	0.875	1.125	1.688
Pulling Tool	JDCBT-02000-01	JDCBT-02500-01	JDCBT-03000-01

F COLLAR STOP RUNNING TOOL

ASSEMBLY DESCRIPTION

The F Collar Stop Running Tool is used to set the F Collar Stop (page D5).





F COLLAR STOP RUNNING TOOL

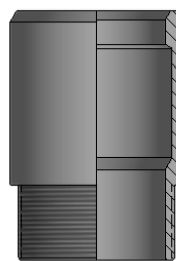
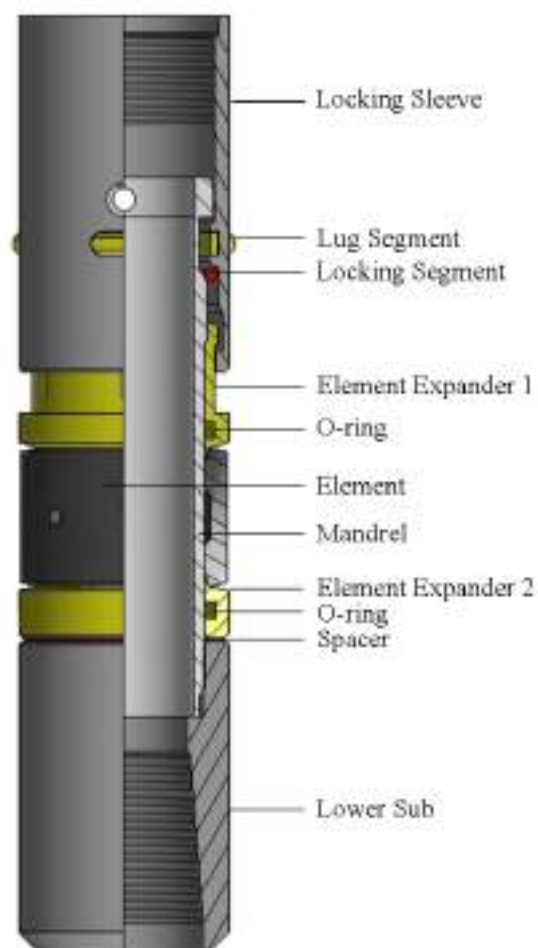
SPECIFICATIONS			
	2.000	2.500	3.000
Fishneck	1.375	1.375	1.750
Connection	15/16"-10	15/16"-10	15/16"-10
Maximum O.D.	1.500	1.500	2.000
Steel Pin	1/4" X 1-3/16"	1/4" X 1-1/2"	1/4" X 2"

G PACKOFF

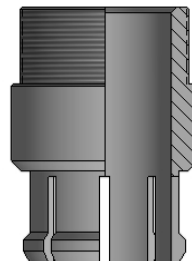
ASSEMBLY DESCRIPTION

The G Packoff is used to seal off holes in the tubing. The G Stop Anchor (page D11) can be used to keep the G Packoff in the locked position.

The G Packoff can be used as a plug during well completion where Landing Nipples (page B1) were not installed. Kodiak's manufactures both the Upper Assembly Fishneck and the Lower Assembly Collet for the GPackoff. These are shown below the main assembly respectively.



Upper Assembly
Fishneck



Lower Assembly
Collet



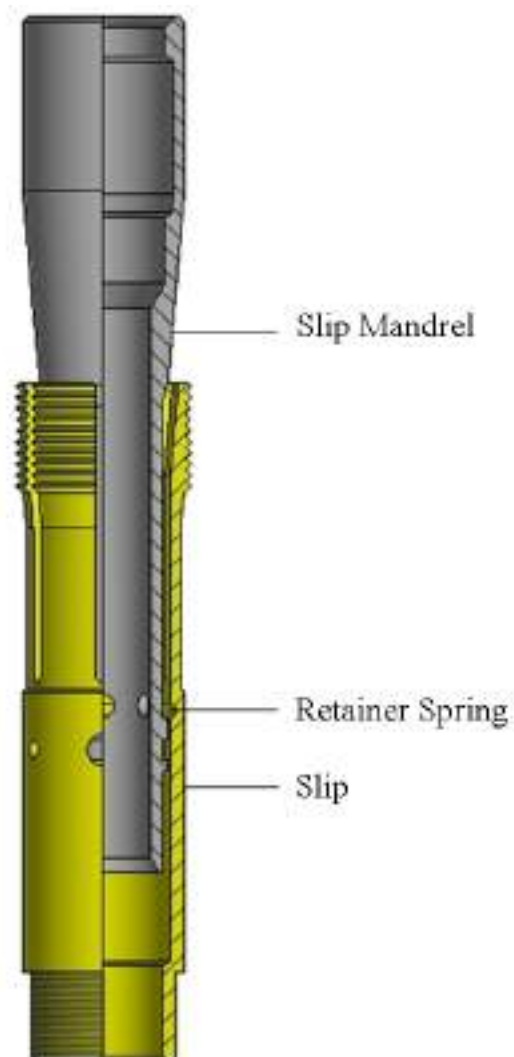
G PACKOFF

SPECIFICATIONS		
	2.000	2.500
Fishneck	1.375	1.813
Upper Connection	1-5/8"-12	2-1/16"-12
Lower Connection	1"-10	1-1/2"-10
Maximum O.D.	1.840	2.275
Minimum I.D.	1.063	1.500

G STOP ANCHOR

ASSEMBLY DESCRIPTION

The G Stop Anchor is used with the G Packoff (page D9) to pack off holes in the tubing. A Bull Plug Nose is also available for the entire assembly.





G STOP ANCHOR

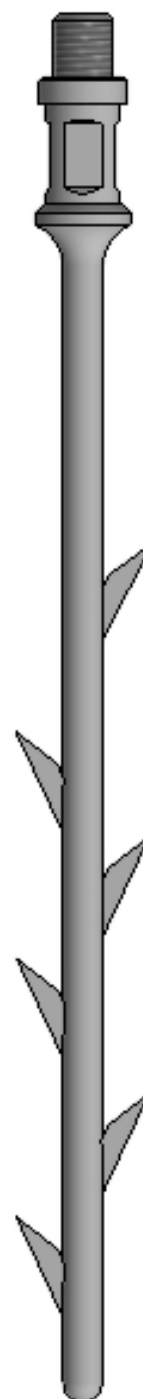
SPECIFICATIONS			
	2.000	2.500	3.000
Fishneck	1.375	1.813	2.150
Connections	1-5/8"-12	2-1/16"-12	2-1/2"-12
Maximum O.D.	1.820	2.266	2.720
Minimum I.D.	1.063	1.500	1.750
Shear Pin	0.250	0.250	0.250

CENTER SPEAR

ASSEMBLY DESCRIPTION

The Center Spear is used to help remove slickline snarls stuck in the tubing. It is driven into the tangle to loosen it up for wire removal. It is often used with the Kodiak's Wireline Finder (page F8).

The Center Spear should only be used when the specific job can not be performed with at least a two-pronged Kodiak's Wireline Grab (page F10). The reason for this restriction is that once a Center Spear has the wireline wrapped around it, it cannot be released until it is pulled to the surface.





CENTER SPEAR

SPECIFICATIONS				
	2.000	2.500	3.000	4.000
Fishneck	1.188	1.188	1.375	1.750
Connection	15/16"-10	15/16"-10	1-1/16"-10	1-1/16"-10
Length	22.000	22.000	22.000	22.000

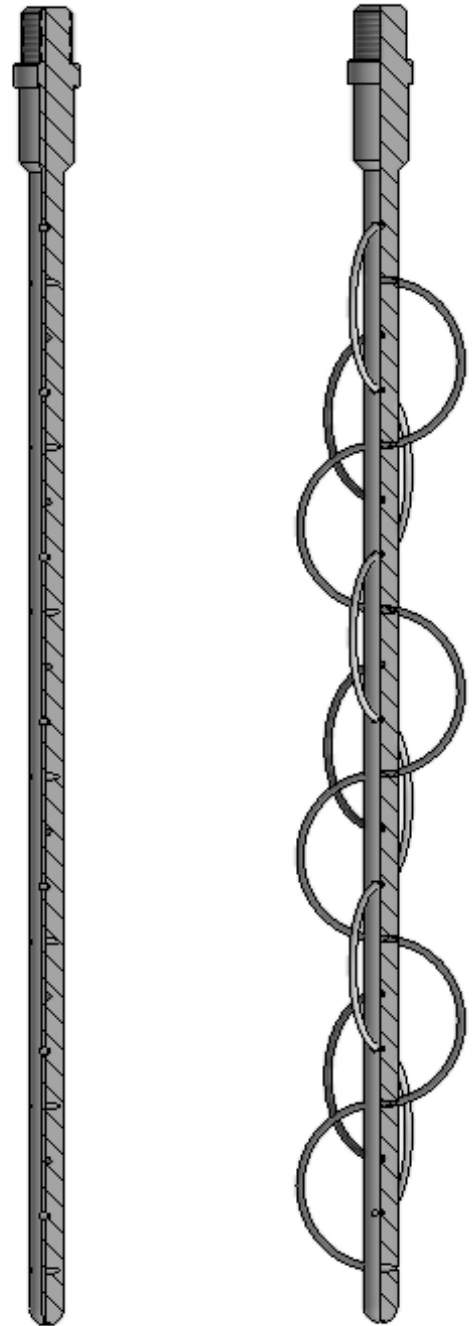
PARAFFIN SCRATCHER

ASSEMBLY DESCRIPTION

The Paraffin Scratcher is designed to dislodge paraffin, scale, and debris from the I.D. of the tubing. This is accomplished by threading pieces of wireline through a number of spirally drilled holes along its 5/8" diameter body and running it up and down inside the tubing.

The left assembly has each of the individual holes being filled with wire and secured with grub screws.

The right illustration shows the wireline strands being continuously run through the tool.





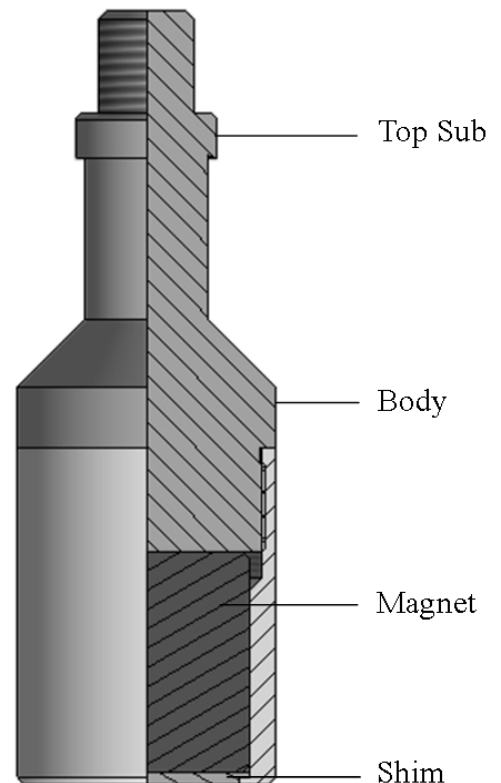
PARAFFIN SCRATCHER

SPECIFICATIONS				
	2.000	2.500	3.000	4.000
Fishneck	1.188	1.188	1.375	1.750
Connection	15/16"-10	15/16"-10	1-1/16"-10	1-1/16"-10
Thru Holes	(20) 0.125" Holes Separated 1" apart Rotated 60°	(20) 0.125" Holes Separated 1" apart Rotated 60°	(20) 0.125" Holes Separated 1" apart Rotated 60°	(20) 0.125" Holes Separated 1" apart Rotated 60°

RARE EARTH MAGNET

ASSEMBLY DESCRIPTION

The Rare Earth Magnet is used to remove metal particles from the tubing, which may impede normal wireline operations and prevent recording tools from functioning properly. Kodiak's is able to produce a wide variety of Rare Earth Magnets in order to meet customer requirements and specifications.



WARNING: Very powerful magnets are enclosed within the tool, and care should be taken to prevent damage to electronic equipment, and any materials in your shop.



RARE EARTH MAGNET

SPECIFICATIONS				
	1.000	1.500	1.750	2.000
Fishneck	0.875	1.188	1.375	1.375
Connection	5/8"-11	15/16"-10	15/16"-10	15/16"-10

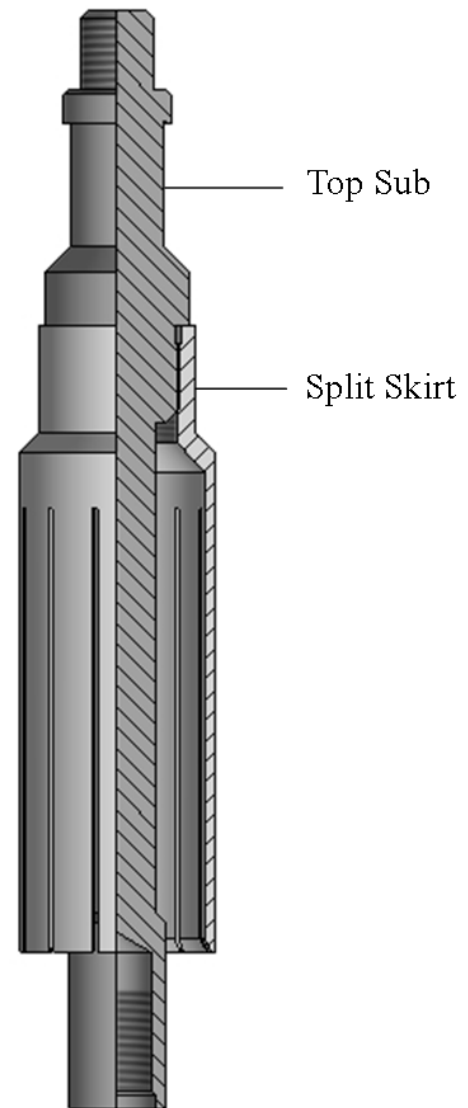
SPECIFICATIONS				
	2.250	2.500	2.750	3.000
Fishneck	1.375	1.375	1.750	1.750
Connection	15/16"-10	15/16"-10	1-1/16"-10	1-1/16"-10

SPECIFICATIONS				
	3.250	3.500	3.750	4.000
Fishneck	1.750	1.750	1.750	1.750
Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10

WIRELINE FINDER

ASSEMBLY DESCRIPTION

The Wireline Finder is used to bend or ball the uppermost part of the wire so that retrieving applications may be used. There are internal threads at the base of the Top Sub that allow a Center Spear (page F2), or Wireline Grab (page F10) to be utilized. Kodiak's is able to produce a wide variety of Split Skirt O.D. sizes in order to meet customer requirements and specifications.





WIRELINER FINDER

SPECIFICATIONS				
	2.000	2.500	3.000	4.000
Fishneck	1.375	1.375	1.375	1.750
Connections	15/16"-10	15/16"-10	15/16"-10	1-1/16"-10

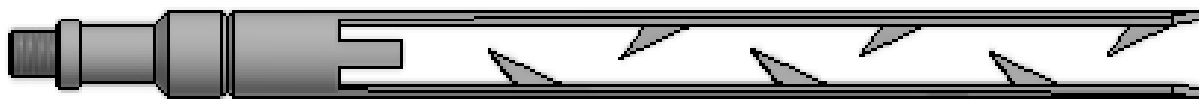
WIRELINE GRAB

ASSEMBLY DESCRIPTION

The Wireline Grab is used to remove damaged wire from the tubing during fishing. This allows the prongs of the Wireline Grab to hook onto the wire. The Wireline Grab is normally run with a dummy Rope Socket (page G23).

The customer should specify the following when ordering:

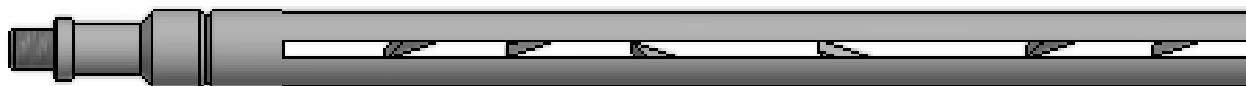
- *The maximum O.D. of the Wireline Grab or the minimum I.D. of the tubing
- *The number of prongs required
- *The connection thread type



2 PRONG WIRELINE GRAB



3 PRONG WIRELINE GRAB

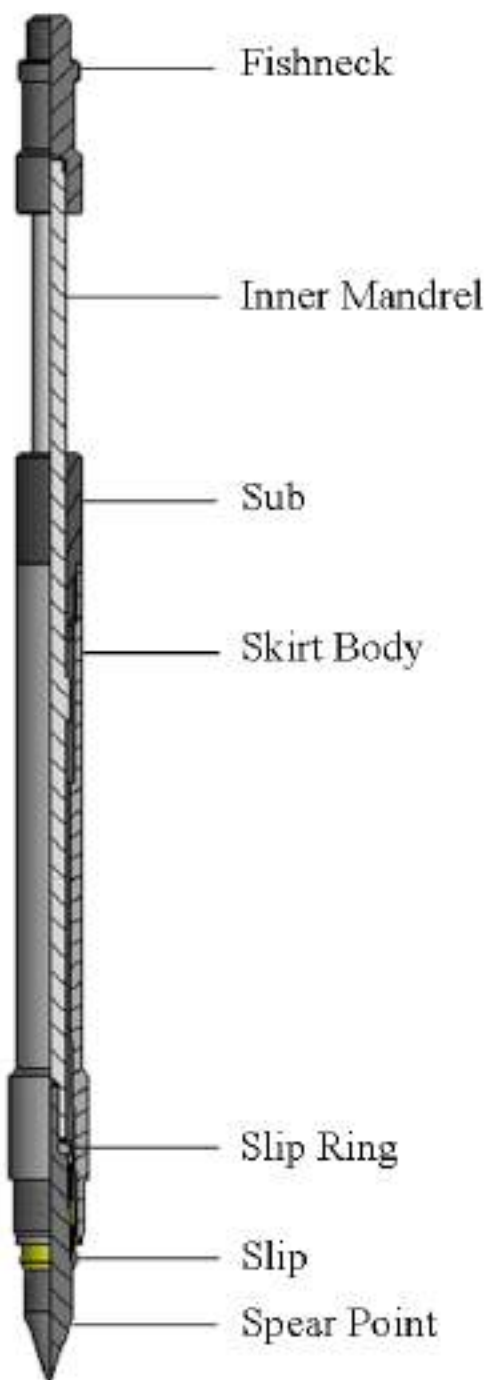


4 PRONG WIRELINE GRAB

WIRELINER RETRIEVER

ASSEMBLY DESCRIPTION

The Wireline Retriever is designed to retrieve broken or cut slickline from the tubing. It locates and balls the broken wire with the Skirt Body. Pulling up on the Wireline Retriever traps the broken line within the tool with the use of the wedges. Kodiak's is able to produce a wide variety of Skirt Body O.D. sizes in order to exceed customer requirements and specifications.





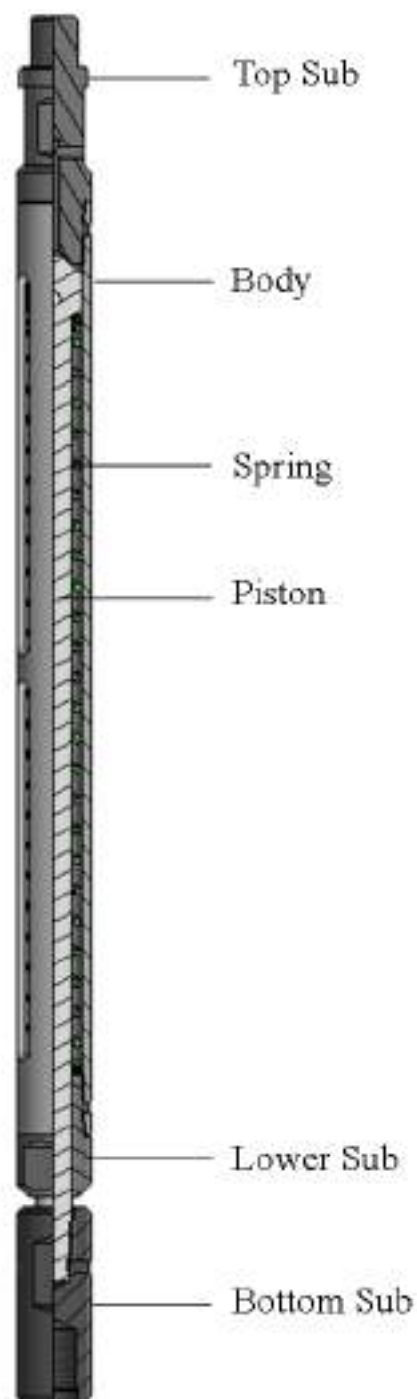
WIRELINER RETRIEVER

SPECIFICATIONS				
	2.000	2.500	3.000	4.000
Fishneck	1.375	1.375	1.375	1.750
Connection	15/16"-10	15/16"-10	15/16"-10	1-1/16"-10

ACCELERATOR

ASSEMBLY DESCRIPTION

The Accelerator is used to provide spring-loaded jarring action, usually at a surface level. It stores its energy for when an overpull occurs. This will make the assembly accelerate upward to where the point of impact was, thus increasing the amount of force being generated. It may also act as a shock absorber for when assemblies are being used at shallow depths.





ACCELERATOR

SPECIFICATIONS			
	1.250	1.500	1.750
Fishneck	1.187	1.375	1.750
Connections	15/16"-10	15/16"-10	1-1/16"-10

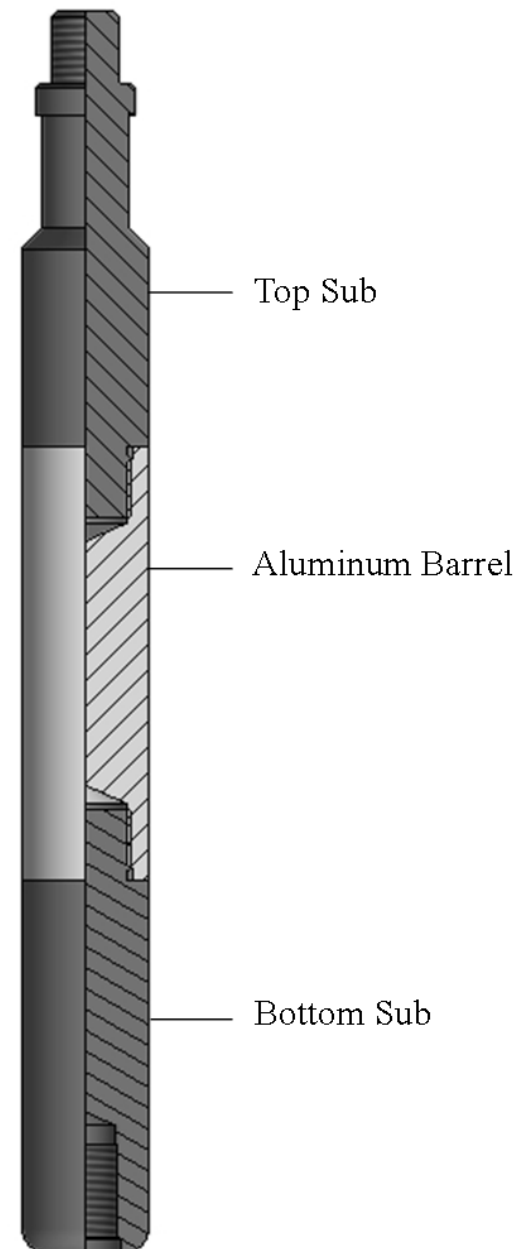
SPECIFICATIONS			
	1.875	2.125	2.500
Fishneck	1.375	1.750	2.313
Connections	1-1/16"-10	1-1/16"-10	1-1/16"-10

ALUMINUM DUMMY

ASSEMBLY DESCRIPTION

An Aluminum Dummy can be used to ensure downhole clearance or can be used as a spacer in a wireline tool string assembly.

Kodiak's's Aluminum Dummy can be customized to any length in order to meet customer requirements and specifications





ALUMINUM DUMMY

SPECIFICATIONS				
	1.500	1.687	1.750	2.000
Fishneck	1.375	1.375	1.375	1.750
Connections	15/16"-10	15/16"-10	15/16"-10	15/16"-10

SPECIFICATIONS				
	2.125	2.250	2.500	2.750
Fishneck	1.750	1.750	1.750	1.750
Connections	15/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10

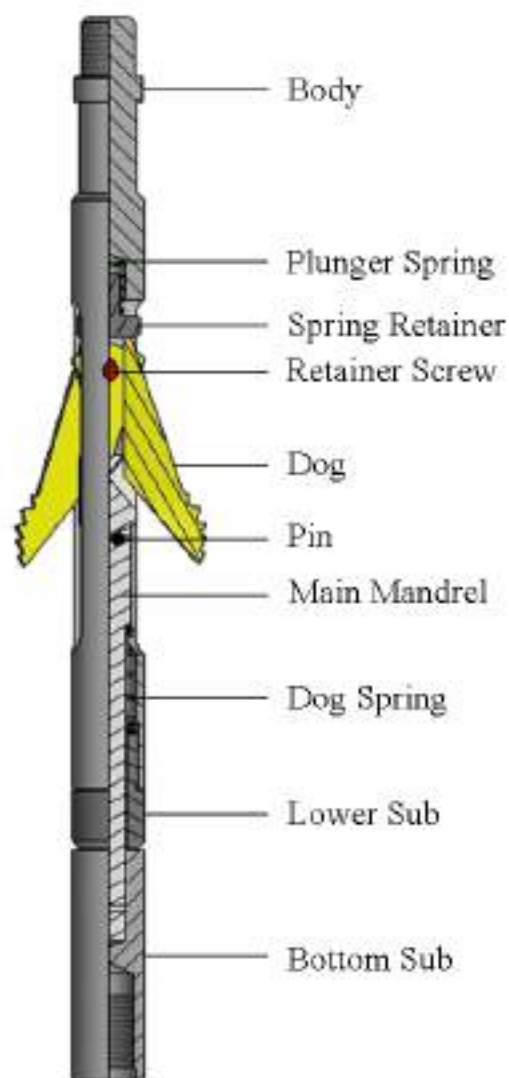
SPECIFICATIONS				
	3.375	4.000		
Fishneck	2.313	2.313		
Connections	1-1/16"-10	1-1/16"-10		

ANTI-BLOW UP TOOL

ASSEMBLY DESCRIPTION

The Anti-Blow Up Tool is installed in the tool string above the B.H.P. equipment. The weight of the B.H.P. equipment will keep the dogs retracted.

If a sudden surge of pressure were to occur below the tool string, the memory pressure gauges and other equipment would move upward, releasing the dogs outward. The dogs would then engage the inner tubing wall, thereby preventing the tool string from moving up the tubing.





ANTI-BLOW UP TOOL

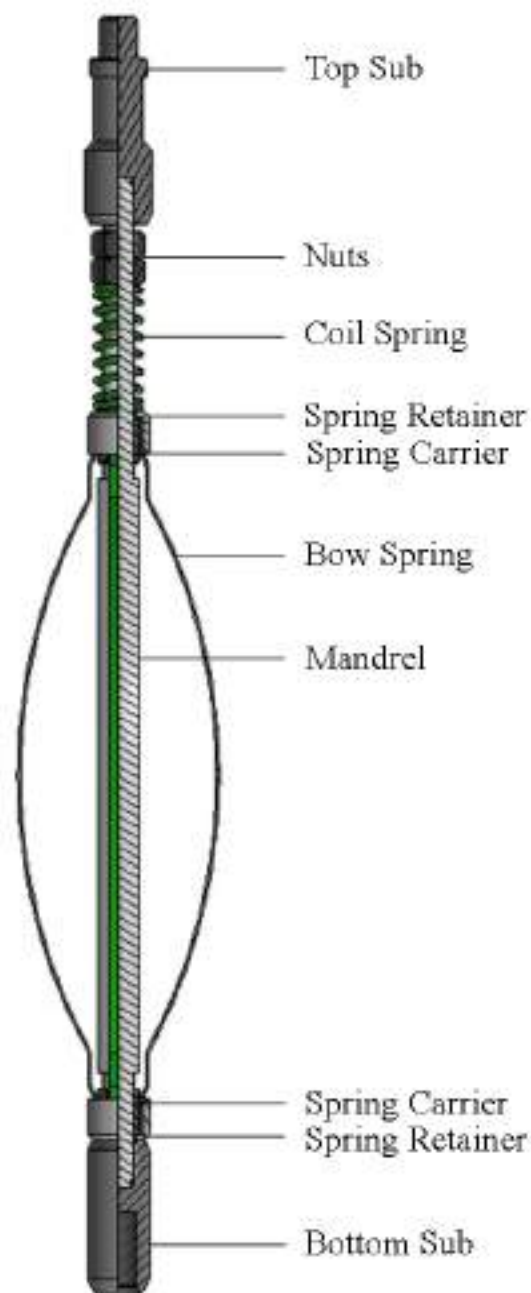
SPECIFICATIONS		
	1.250	1.500
Fishneck	1.187	1.375
Connections	15/16"-10	15/16"-10

BOW SPRING CENTRALIZER

ASSEMBLY DESCRIPTION

Through the use of an adjustable nut, the Bow Spring Centralizer can adjust to any O.D. ranging from 1.500" to 7.500" O.D. It is used to keep the tool string located in the center of the tubing.

The Bow Spring Centralizer contracts to fit through 2.313" Landing Nipples (page B1).





BOW SPRING CENTRALIZER

SPECIFICATIONS	
	Standard
Fishneck	1.375
Connections	15/16"-10

CROSSOVER

ASSEMBLY DESCRIPTION

The Kodiak's Crossover is used to connect two tool string items together when the items do not have similar connection styles or sizes. Kodiak's Crossovers have a central body, with one of the following variations of its top and lower sub:

Pin to Box

Box to Box

Pin to Pin

Crossovers may have but are not limited to having the following connections:

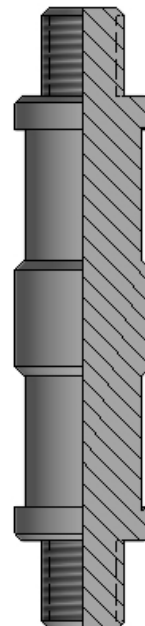
1-1/2", 1-7/8", 2-1/2", and 2-1/8" QLS

5/8", 15/16", 1-1/16", and 1-9/16" Sucker Rod

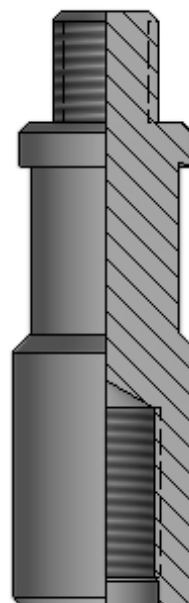
Drain Rod connections

Amerada connections

Pin X Pin Crossover



Pin X Box Crossover



GO DEVIL

ASSEMBLY DESCRIPTION

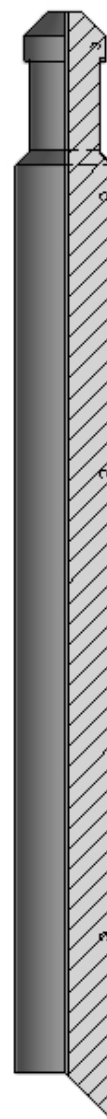
The Go Devil is dropped to cut the wireline at the Rope Socket (page G23) when the tool string becomes stuck. Kodiak's manufactures three types of Go Devils in

order to accomodate to customer's tubing specifications.

The Mule Shoe style is used when there is liquid present to slow the Go Devil as it descends. This style can also utilize sliding sleeves to keep the tool centered in the tubing.

The Deer Foot style is used when there is only gas present. The Deer Foot style is manufactured to remain in the center of the tubing, even after striking and releasing the Rope Socket.

The Flat Bottom style is used when there is sand or a large amount of debris present so as to drastically reduce the speed of the Go Devil as it descends.



Flat Bottom



Mule Shoe



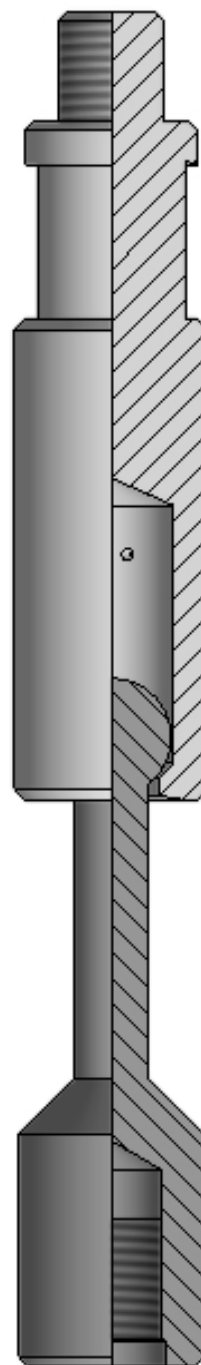
Deer Foot

KNUCKLE JAR

ASSEMBLY DESCRIPTION

The Knuckle Jar provides a range of motion that helps to make the connections between the assemblies in the tool string significantly more flexible.

Knuckle Jars can be used for light jarring.





KNUCKLE JAR

SPECIFICATIONS			
	1.250	1.500	1.750
Fishneck	1.188	1.375	1.750
Connections	15/16"-10	15/16"-10	1-1/16"-10

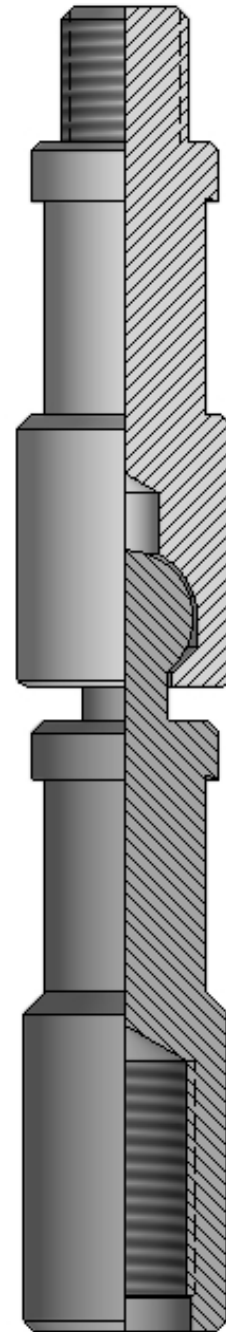
SPECIFICATIONS			
	1.875	2.125	
Fishneck	1.750	1.750	
Connections	1-1/16"-10	1-1/16"-10	

KNUCKLE JOINT

ASSEMBLY DESCRIPTION

The Knuckle Joint is designed for applications where tool string rotation or deflection is required. It is most useful in fishing applications to properly locate the fishneck.

The Knuckle Joint provides a range of motion that helps to make the connections between the tool string and the running or pulling tools significantly more flexible. If one or more Knuckle Joints are utilized, it will allow for Kickover Tools (page P1) to explore side pocket areas.





KNUCKLE JOINT

SPECIFICATIONS				
	0.750	1.000	1.250	1.500
Fishneck	0.750	1.000	1.188	1.375
Connections	1/2"-13	5/8"-11	15/16"-10	15/16"-10

SPECIFICATIONS				
	1.750	1.875	2.125	2.500
Fishneck	1.750	1.750	1.750	2.313
Connections	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-9/16"-10

LINK JAR

ASSEMBLY DESCRIPTION

The Link Jar provides extra weight in order to increase the impact needed to operate certain wireline tools. The intensity is dependent upon the weight of the Stem (page G31) above it, the stroke of the jar, the density and viscosity of the well fluid, and the well pressure.





LINK JAR

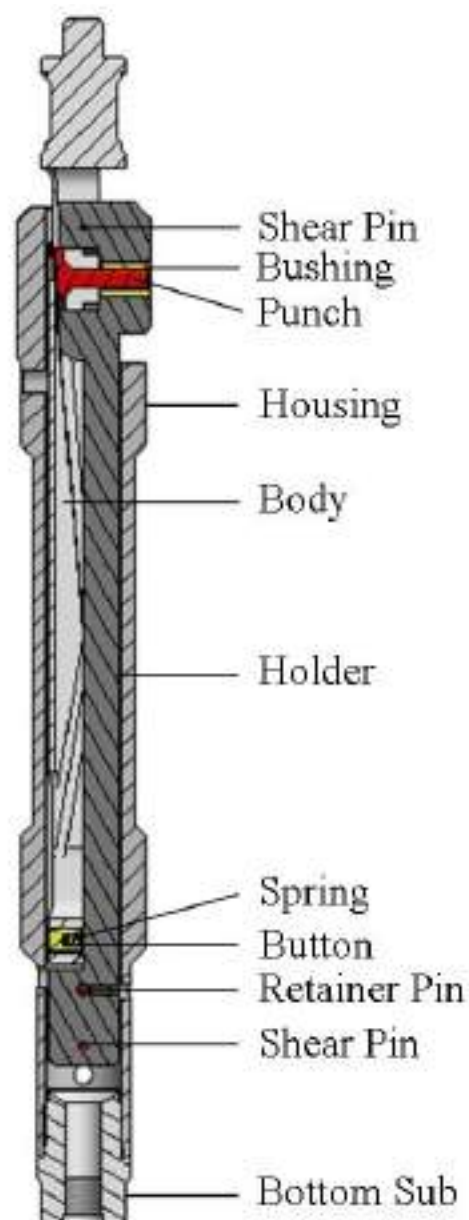
SPECIFICATIONS				
	0.750	1.000	1.250	1.500
Fishneck	0.750	1.000	1.188	1.375
Connections	1/2"-13	5/8"-11	15/16"-10	15/16"-10

SPECIFICATIONS				
	1.750	1.875	2.125	2.500
Fishneck	1.750	1.750	1.750	2.313
Connections	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-9/16"-10

MECHANICAL PERFORATOR

ASSEMBLY DESCRIPTION

The Kodiak's Mechanical Perforators have reduced costs and reduced rig times by eliminating explosives and other equipment. It is also much simpler to use.





MECHANICAL PERFORATOR

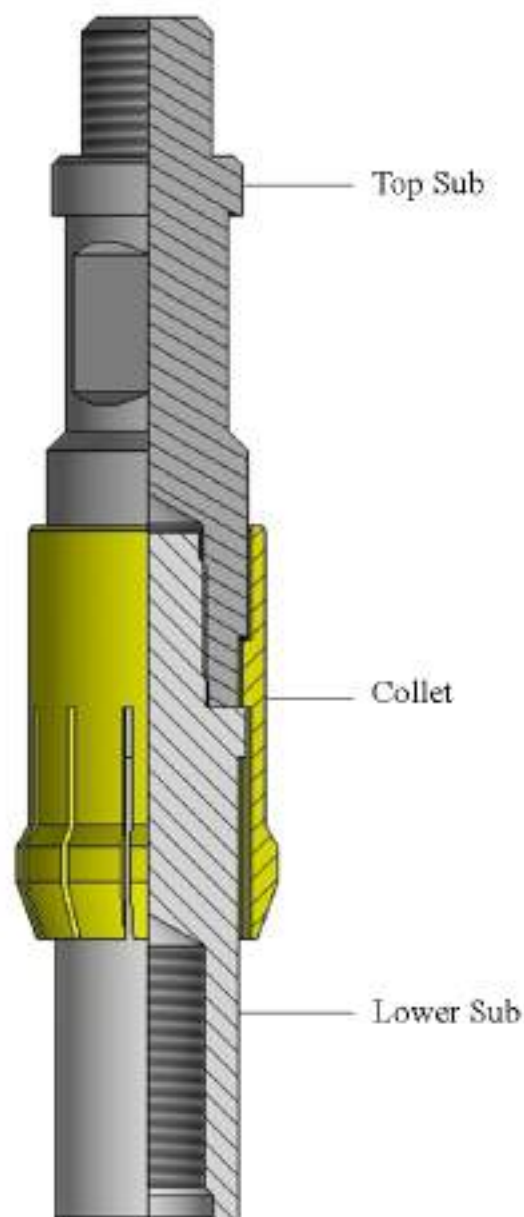
SPECIFICATIONS			
	1.250	2.500	2.000
Fishneck	1.000	1.375	1.375
Connections	5/8"-11	15/16"-10	15/16"-10

SPECIFICATIONS			
	3.000	4.000	4.000
Fishneck	1.750	1.750	1.750
Connections	1-1/16"-10	1-1/16"-10	1-1/16"-10

NIPPLE LOCATOR

ASSEMBLY DESCRIPTION

The Nipple Locator indicates where the Landing Nipple (page B1) is located downhole. The Collet of the Nipple Locator is stopped at the restriction and must be tapped through the restriction, thereby indicating the true depth of the nipple.





NIPPLE LOCATOR

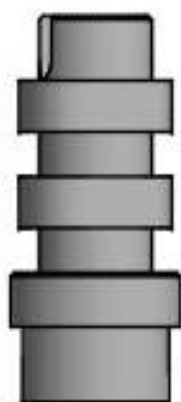
SPECIFICATIONS			
	1.875	2.188	2.313
Fishneck	1.375	1.375	1.375
Connections	15/16"-10	15/16"-10	15/16"-10

SPECIFICATIONS			
	2.750	2.813	
Fishneck	1.375	1.375	
Connections	15/16"-10	15/16"-10	

QUICK LOCK

ASSEMBLY DESCRIPTION

The Quick Lock is designed to provide a fast and safe means of changing over tools. Kodiak's provides a wide range of different style connections. Some connections may be able to remove the need for wrenches when assembling or disassembling tools.



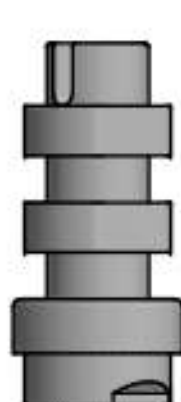
Rebco Style



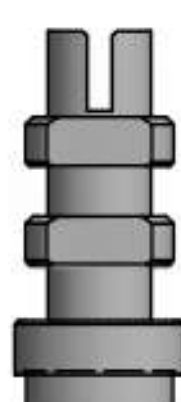
Bowen Style



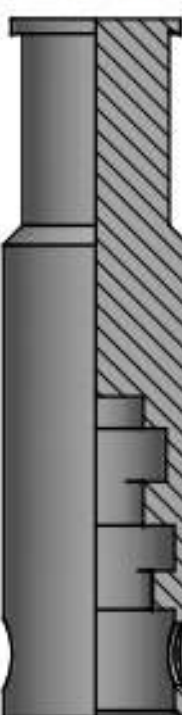
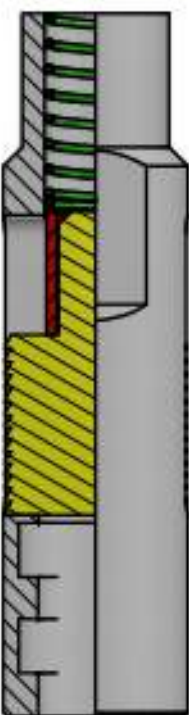
BDK Style



QLS Style



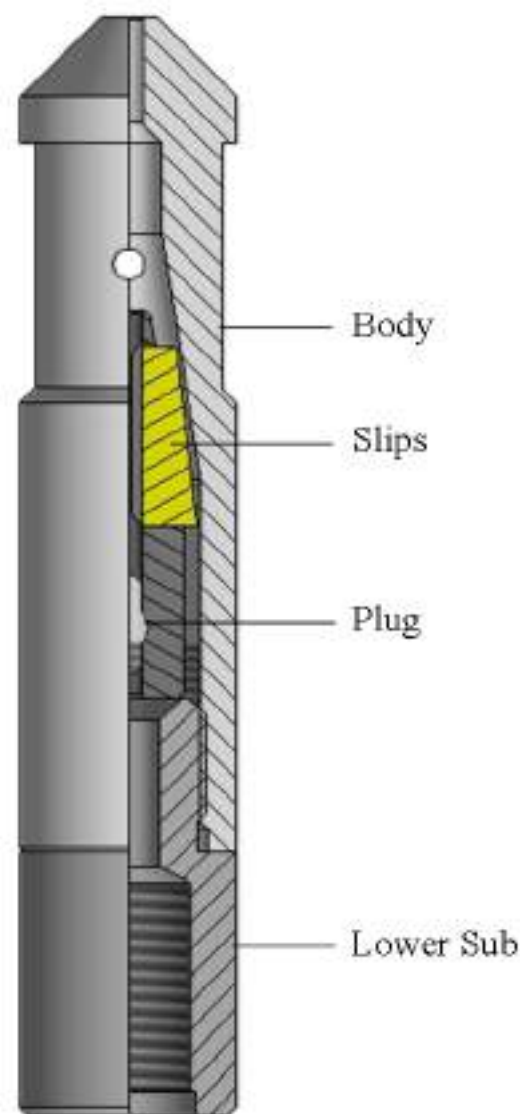
HES / Hunting Style



ROPE SOCKET (MULTI-STRAND)

ASSEMBLY DESCRIPTION

The Multi-Strand Rope Socket is used to attach multi-strand lines with the wireline tool string. This slip-type Rope Socket is used with small lines up to 7/32". Each rope socket is able to maintain a specific weight, proportional to the nominal size. In the event that the tool string becomes stuck, the Slips will break the wireline, allowing it to then be pulled up.





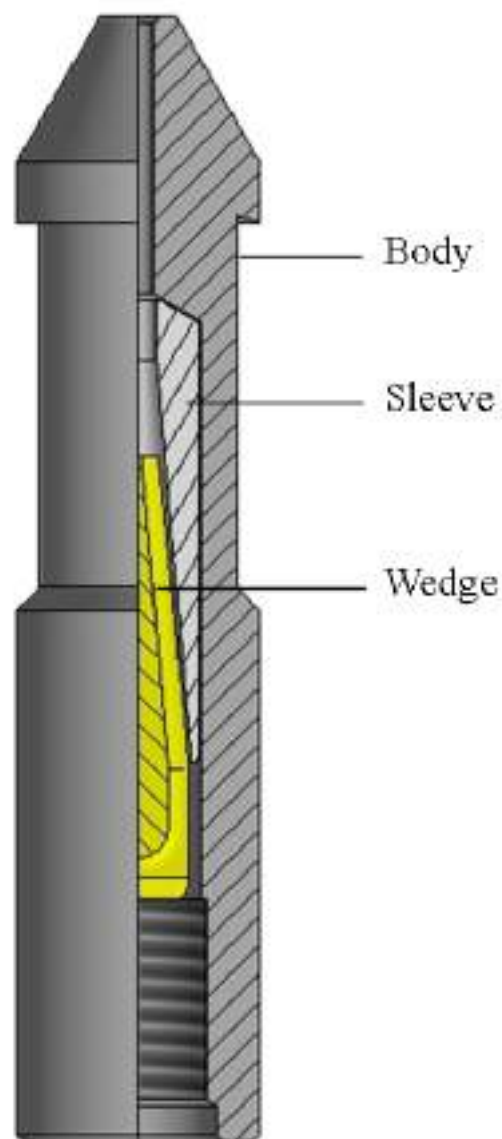
ROPE SOCKET (MULTI-STRAND)

SPECIFICATIONS			
	1.250	1.500	1.875
Connection	15/16"-10	15/16"-10	1-1/16"-10

ROPE SOCKET (NO-KNOT)

ASSEMBLY DESCRIPTION

The No-Knot Rope Socket is used to connect the wireline to the wireline tool string. The line is run through the body and sleeve, with the line set in the groove of the wedge. The line is set when the Wedge is pulled tightly into the sleeve.





ROPE SOCKET (NO-KNOT)

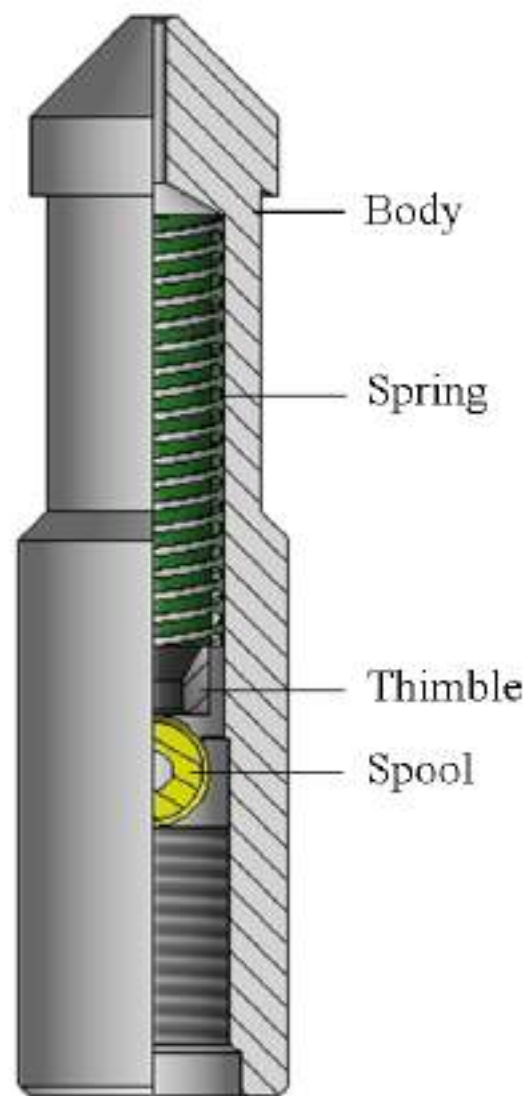
SPECIFICATIONS			
	1.250	1.500	1.750
Fishneck	1.188	1.375	1.750
Connection	15/16"-10	15/16"-10	1-1/16"-10

SPECIFICATIONS			
	1.875	2.125	2.500
Fishneck	1.750	1.750	2.313
Connection	1-1/16"-10	1-1/16"-10	1-9/16"-10

ROPE SOCKET (SINGLE-STRAND)

ASSEMBLY DESCRIPTION

The Single-Strand Rope Socket is used to attach single strand wireline with the wireline tool string. It is recommended for use with wireline string sizes ranging from 0.072" to 0.125".





ROPE SOCKET (SINGLE-STRAND)

SPECIFICATIONS			
	0.750	0.875	1.000
Fishneck	0.688	0.750	1.000
Connection	1/2"-13	1/2"-13	5/8"-11

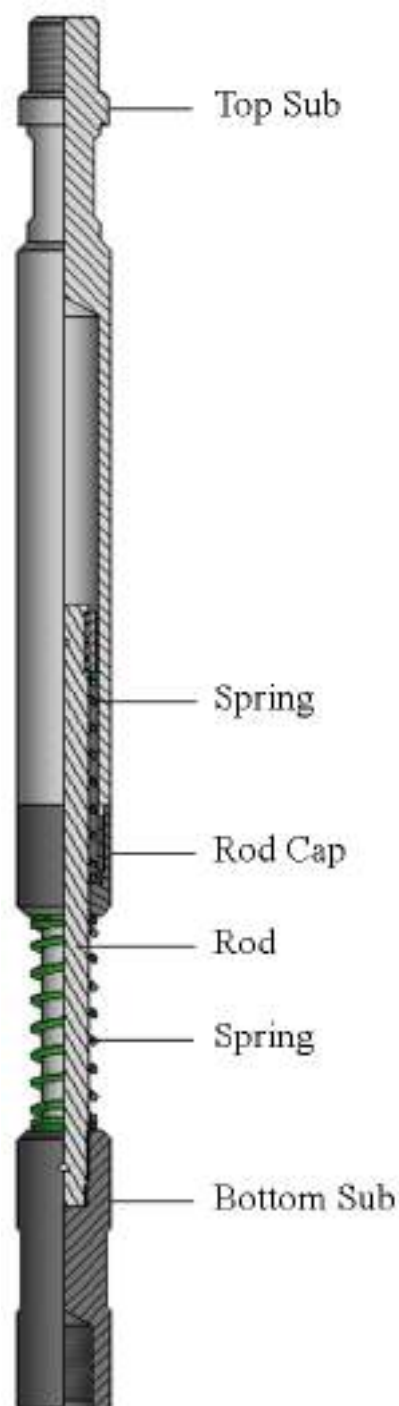
SPECIFICATIONS			
	1.250	1.500	1.750
Fishneck	1.188	1.375	1.750
Connection	15/16"-10	15/16"-10	1-1/16"-10

SPECIFICATIONS			
	1.875	2.125	2.500
Fishneck	1.750	1.750	2.313
Connection	1-1/16"-10	1-1/16"-10	1-9/16"-10

SHOCK ABSORBER

ASSEMBLY DESCRIPTION

The Shock Absorber is used to protect sensitive recording equipment from various jarring actions. The Shock Absorber has two separate Springs which receive both upward and downward jarring shock. The lower Spring is much heavier as it will be holding the weight of the tool string.





SHOCK ABSORBER

SPECIFICATIONS			
	0.750	1.000	1.250
Fishneck	0.750	0.875	1.188
Connection	5/8"-11	5/8"-11	15/16"-10

SPECIFICATIONS			
	1.500	1.750	1.875
Fishneck	1.375	1.750	1.750
Connection	15/16"-10	15/16"-10	1-1/16"-10

STEM

ASSEMBLY DESCRIPTION

Stem is used to add weight to the tool string to counteract upward well bore pressure. This allows easy descent of the tool string. It is also used to increase the jarring effect of Link Jars (page G16) and Tubular Jars (page G41). Tungsten Stem is available upon customer request, and will add significantly more weight per square inch.





STEM

SPECIFICATIONS			
0.500"			
Length	2'	3'	5'
Fishneck	0.500	0.500	0.500
Connections	3/8"-16	3/8"-16	3/8"-16
Weight	0.670	2.000	3.350

SPECIFICATIONS			
0.750"			
Length	2'	3'	5'
Fishneck	0.625	0.625	0.625
Connections	1/2"-13	1/2"-13	1/2"-13
Weight	3.000	2.000	3.350

SPECIFICATIONS			
1.000			
Length	2'	3'	5'
Fishneck	0.875	0.875	0.875
Connections	5/8"-11	5/8"-11	5/8"-11
Weight	5.300	7.800	12.000

SPECIFICATIONS			
1.250			
Length	2'	3'	5'
Fishneck	1.188	1.188	1.188
Connections	15/16"-10	15/16"-10	15/16"-10
Weight	7.800	12.000	20.400



STEM

SPECIFICATIONS			
1.500			
Length	2'	3'	5'
Fishneck	1.375	1.375	1.375
Connections	15/16"-10	15/16"-10	15/16"-10
Weight	11.000	17.000	29.200

SPECIFICATIONS			
1.750			
Length	2'	3'	5'
Fishneck	1.750	1.750	1.750
Connections	1-1/16"-10	1-1/16"-10	1-1/16"-10
Weight	17.500	26.800	46.000

SPECIFICATIONS			
2.125			
Length	2'	3'	5'
Fishneck	1.750	1.750	1.750
Connections	1-1/16"-10	1-1/16"-10	1-1/16"-10
Weight	24.100	36.200	53.400

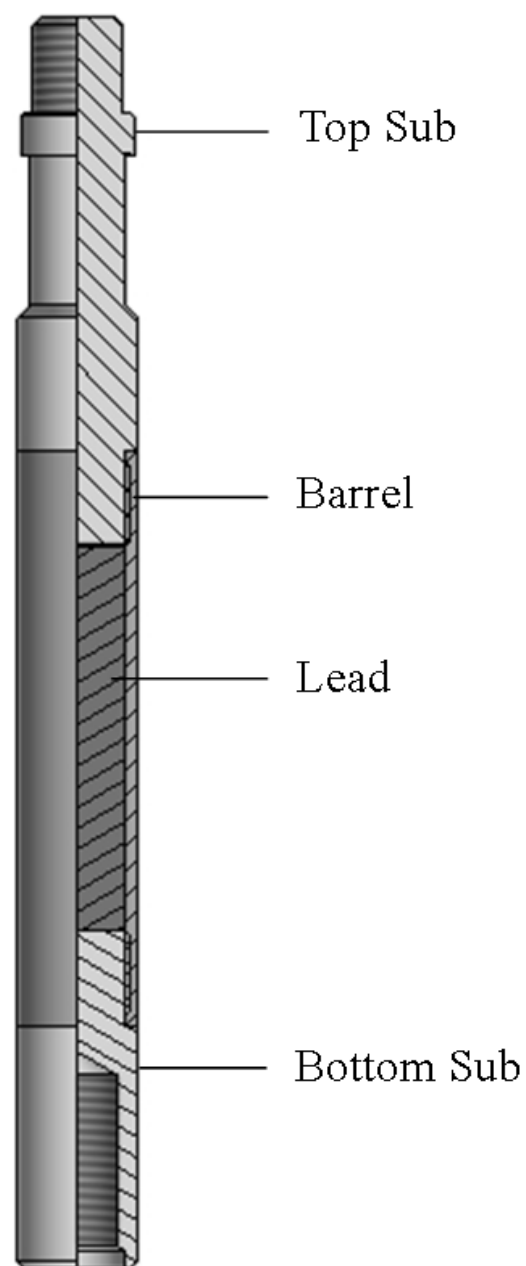
SPECIFICATIONS			
2.500			
Length	2'	3'	5'
Fishneck	2.313	2.313	2.313
Connections	1-9/16"-10	1-9/16"-10	1-9/16"-10
Weight	33.400	50.100	83.500

STEM (LEADED)

ASSEMBLY DESCRIPTION

Stem is used to add weight to the tool string to counteract upward well bore pressure. This allows easy descent of the tool string. It is also used to increase the jarring effect of Link Jars (page G16) and Tubular Jars (page G41).

A Leaded Stem adds more weight per piece than the standard Stem (page G31) due to the increased density of the lead Core.





STEM (LEADED)

SPECIFICATIONS			
1.250			
Length	2'	3'	5'
Fishneck	1.188	1.188	1.188
Connections	15/16"-10	15/16"-10	15/16"-10

SPECIFICATIONS			
1.500			
Length	2'	3'	5'
Fishneck	1.375	1.375	1.375
Connections	15/16"-10	15/16"-10	15/16"-10

SPECIFICATIONS			
1.750			
Length	3'	4'	5'
Fishneck	1.375	1.375	1.375
Connections	1 1/16"-10	1-1/16"-10	1-1/16"-10

SPECIFICATIONS			
1.875			
Length	2'	3'	5'
Fishneck	1.750	1.750	1.750
Connections	1-1/16"-10	1-1/16"-10	1-1/16"-10



STEM (LEADED)

SPECIFICATIONS			
2.125			
Length	2'	3'	5'
Fishneck	1.375	1.375	1.375
Connections	15/16"-10	15/16"-10	15/16"-10

SPECIFICATIONS			
2.250			
Length	2'	3'	5'
Fishneck	1.750	1.750	1.750
Connections	1-1/16"-10	1-1/16"-10	1-1/16"-10

SPECIFICATIONS			
2.500			
Length	2'	3'	5'
Fishneck	2.313	2.313	2.313
Connections	1-9/16"-10	1-9/16"-10	1-9/16"-10

STEM (ROLLER)

ASSEMBLY DESCRIPTION

A Roller Stem is used to provide extra weight to the wireline tool string. In addition the rollers allow the stem to move easier through deviated tubing.

The rollers also reduce the amount of friction and heat that standard Stem (page G31), and Leaded Stem (page G34) will generate. Kodiak's can also manufacture rollers of different sizes for each of the different sizes of Stem.

The most common lengths of Roller Stem are 2', 3', and 5' but Kodiak's is also able to produce any length Stem as to meet customer requirements.





STEM (ROLLER)

SPECIFICATIONS			
	1.250	1.500	1.750
Fishneck	1.188	1.375	1.750
Connections	15/16"-10	15/16"-10	1-1/16"-10

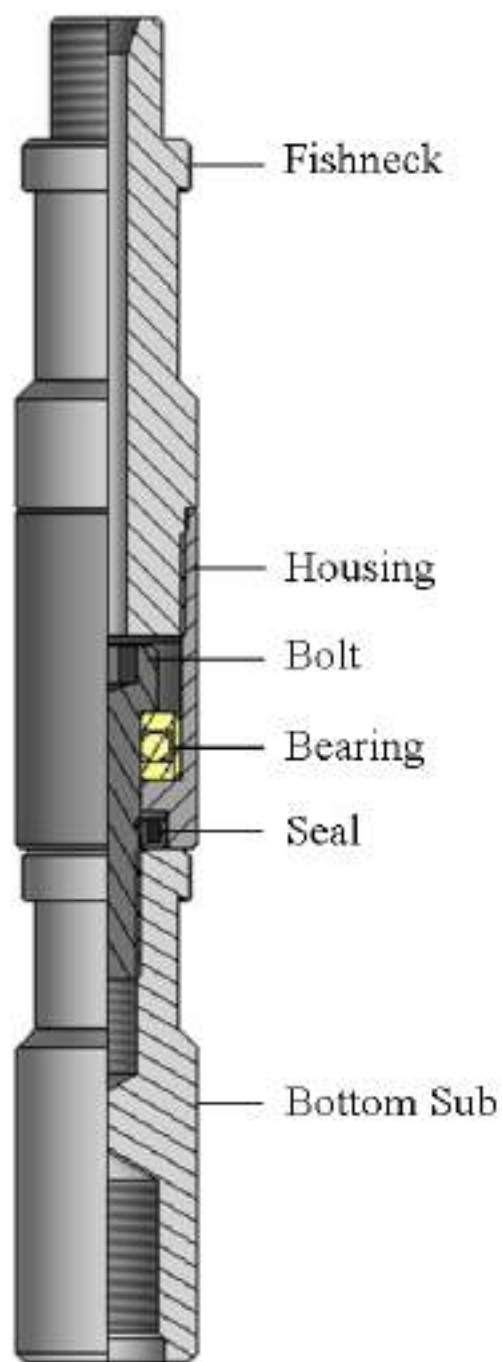
SPECIFICATIONS			
	1.875	2.125	2.250
Fishneck	1.750	1.750	2.313
Connections	1-1/16"-10	1-1/16"-10	1-9/16"-10

SWIVEL JOINT

ASSEMBLY DESCRIPTION

The Swivel Joint is designed to assist in the changing of components in the wireline tool string. The swivel design allows the operator to change out long sections of the tool string without having to rotate them.

The Swivel Joint also allows the tool string to spin and rotate downhole to prevent line twists. Ultimately this will reduce the tool string's chances of being damaged.





SWIVEL JOINT

SPECIFICATIONS			
	1.250	1.500	1.750
Fishneck	1.188	1.375	1.750
Connections	15/16"-10	15/16"-10	1-1/16"-10

SPECIFICATIONS			
	1.875	2.125	2.500
Fishneck	1.750	1.750	2.313
Connections	1-1/16"-10	1-1/16"-10	1-9/16"-10

TUBULAR JAR

ASSEMBLY DESCRIPTION

The Tubular Jar performs the same function as the Link Jar (page G16), but the holes in the body of the Tubular Jar allow fluid bypass. This gives Tubular Jars an advantage compared to Link Jars (page G16), because where a Link Jar might lock up or buckle at full stroke in a tubing with debris, a Tubular Jar could allow the debris to pass through it and still manage to jar the tool string.

By allowing fluids to flow through the holes in the body of the Tubular Jar, the harmful effects of the debris in the well fluid and even faults in the wire on jarring impact is significantly reduced.





TUBULAR JAR

SPECIFICATIONS				
	0.750	1.000	1.250	1.500
Fishneck	0.750	1.000	1.188	1.375
Connections	1/2"-13	5/8"-11	15/16"-10	15/16"-10

SPECIFICATIONS				
	1.750	1.875	2.125	2.500
Fishneck	1.750	1.750	1.750	2.313
Connections	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-9/16"-10



COMMON TOOL SIZES CHART

SPECIFICATIONS				
	0.750	0.875	1.250	1.500
Fishneck	0.688	0.688	1.188	1.375
Connections	1/2"-13	1/2"-13	15/16"-10	15/16"-10

SPECIFICATIONS				
	1.750	1.845	1.875	2.000
Fishneck	1.750	1.750	1.750	1.750
Connections	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10

SPECIFICATIONS				
	2.250	2.500	2.750	3.000
Fishneck	1.750	1.750	1.750	1.750
Connections	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10

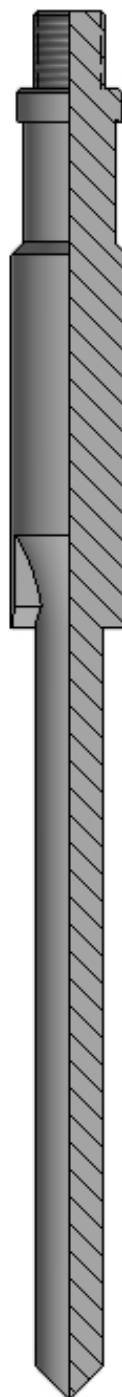
SPECIFICATIONS				
	3.500	3.750	4.000	
Fishneck	2.313	2.313	2.313	
Connections	1-1/16"-10	1-1/16"-10	1-1/16"-10	

2 STEP CHISEL

ASSEMBLY DESCRIPTION

The 2 Step Chisel is used to clear large masses of scale and built up debris downhole.

Please refer to the Common Tool Sizes Chart (page H2) when ordering so as to best clarify which fishneck and thread connections are required.



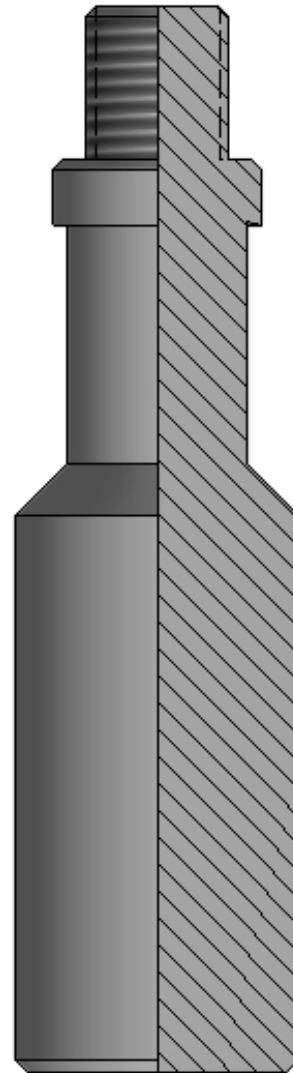
BLIND BOX

ASSEMBLY DESCRIPTION

The Blind Box is a single piece tool designed to deliver “blows”, much like a hammer, to downhole debris. The Kodiak’s Blind Box can also be used to break

the wireline at the Rope Socket (page G23), which then allows for the wire to be retrieved.

Please refer to the Common Tool Sizes Chart (page H2) when ordering so as to best clarify which fishneck and thread connections are required.

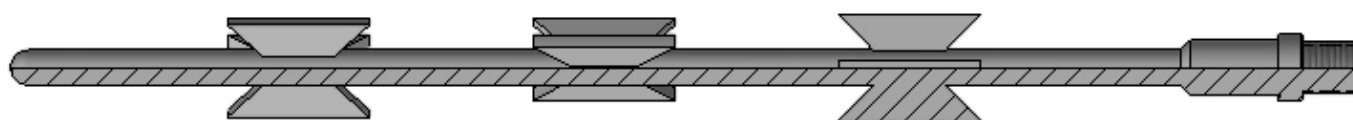


BROACHES

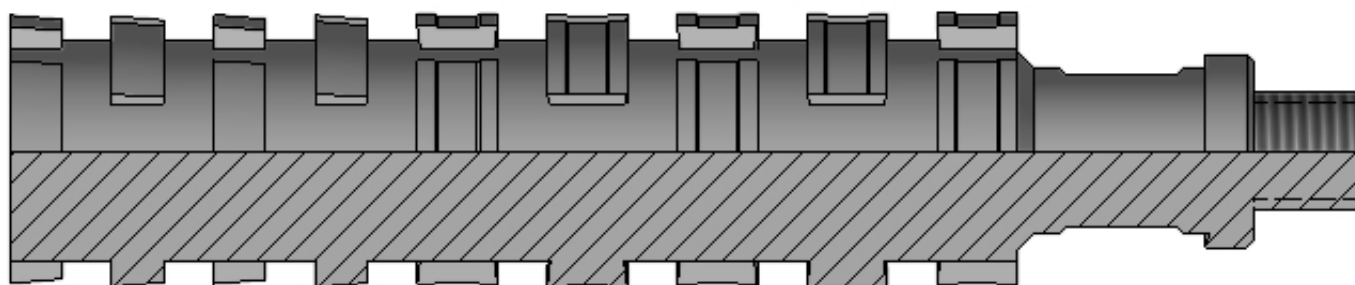
ASSEMBLY DESCRIPTION

Tubing Broaches are heavy durable tools that are used to remove tubing restrictions in the well bore. Depending on the type of material in the tubing well, different broach styles may be recommended.

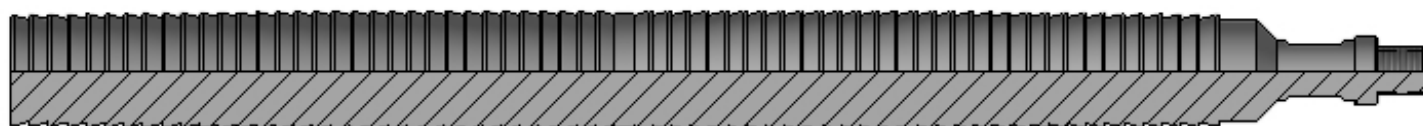
Please refer to the Common Tool Sizes Charts (page H2) when ordering so as to best clarify which fishneck and thread connections are required.



Paddle Broach



Pineapple Broach



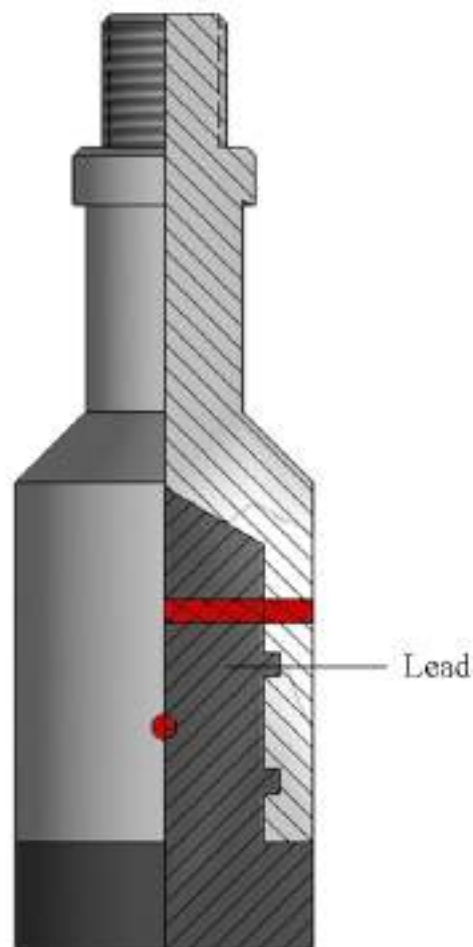
Tubing Broach

IMPRESSION BLOCK

ASSEMBLY DESCRIPTION

The Impression Block is a steel housing with a lead core. It is used to make an impression of the size, shape, and position of an object to be fished. The soft bottom of the block will be able to take a sample of the unknown object so that the operator is able to accurately select the next fishing equipment, which increases efficiency and safety.

Please refer to the Common Tool Sizes Charts (page H2) when ordering so as to best clarify which fishneck and thread connections are required.



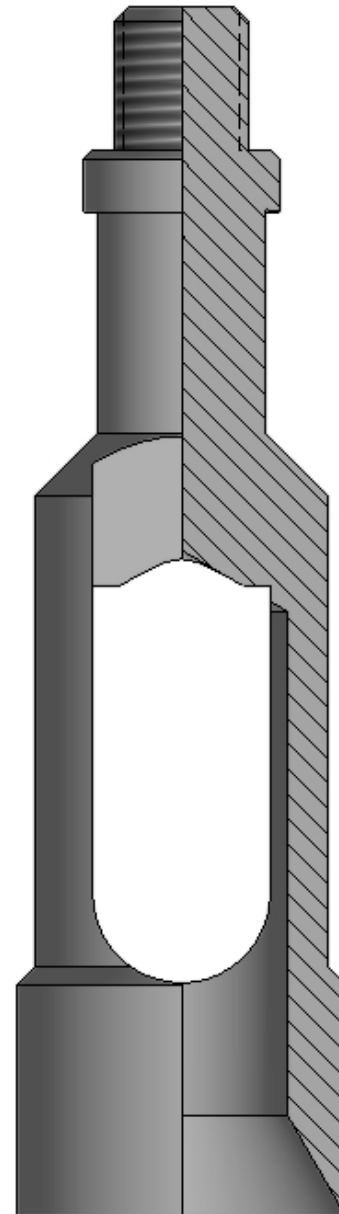
RING GAUGE

ASSEMBLY DESCRIPTION

The Ring Gauge can be used to calibrate tubing and locate Landing Nipples (page B1). Its main purpose is to remove paraffin wax and other deposits from the tubing wall.

The middle section of the Ring Gauge has large windows that allow fluid to pass through the tool. The lower section of the Ring Gauge has a lip that the tool uses for scraping against the sides of the tubing.

Please refer to the Common Tool Sizes Chart (page H2) when ordering so as to best clarify which fishneck and thread connections are required.



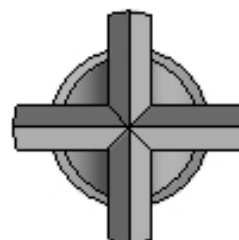
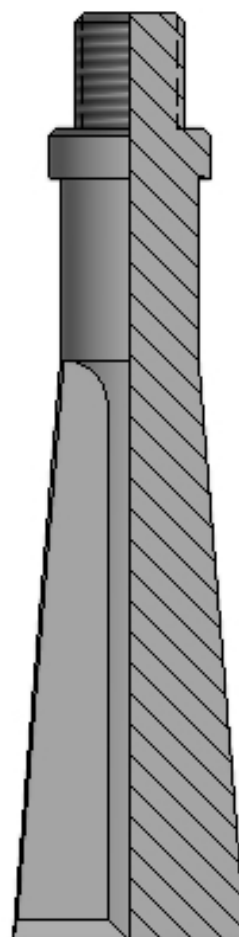
STAR DRILL

ASSEMBLY DESCRIPTION

Star Drills are used to clean up excess deposits within the well. When used in conjunction with a Kodiak's

Broach (page H5), the Star Drill is able to accurately determine that the tubing is clear of debris and deposits.

Please refer to the Common Tool Sizes Chart (page H2) when ordering so as to best clarify which fishneck and thread connections are required.

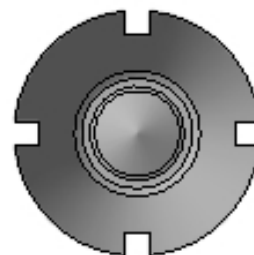
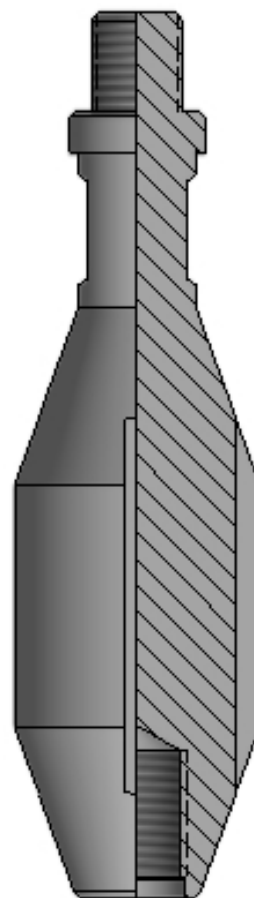


TUBING CENTRALIZER

ASSEMBLY DESCRIPTION

The Tubing Centralizer is used to help keep the tool string in the center of the tubing. The diameter is machined near the tubing drift specifications. Fluid bypass slots are machined to assist the tool string downhole. This tool is placed above the pulling or running assemblies so that when the tool string is lowered, it will be centered within the tubing.

Please refer to the Common Tool Sizes Chart (page H2) when ordering so as to best clarify which fishneck and thread connections are required.

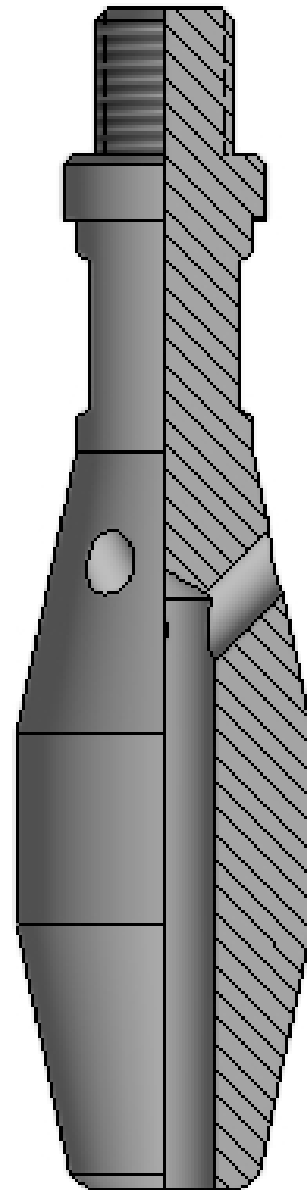


TUBING SWEDGE

ASSEMBLY DESCRIPTION

The Tubing Swedge is used to forcibly straighten irregular tubing deficiencies. Tubing Swedges are also used to remove other obstructions within the tubing string, through the use of its angled fluid ports.

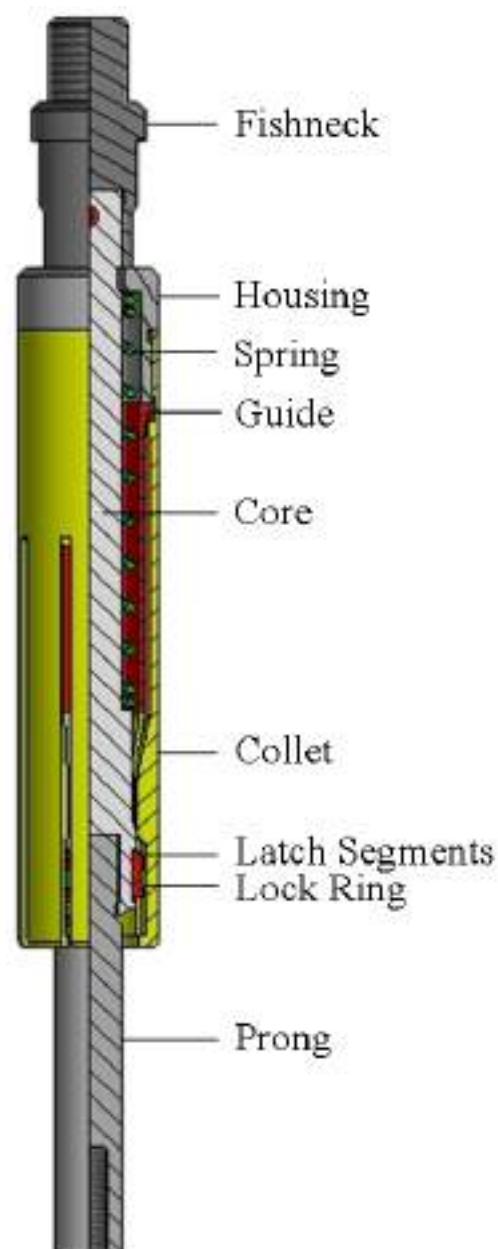
Please refer to the Common Tool Sizes Chart (page H2) when ordering so as to best clarify which fishneck and thread connections are required.



BR SOFT RELEASE RUNNING TOOL

ASSEMBLY DESCRIPTION

The Kodiak's BR Soft Release Running Tool sets bottom hole gauges, or other pressure instruments.





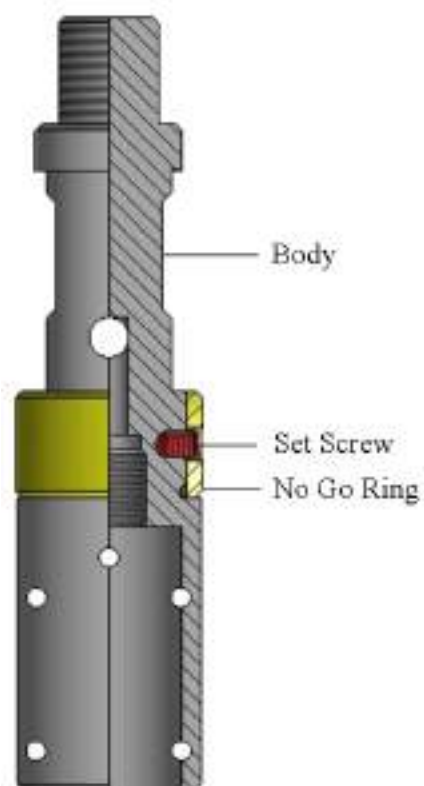
BR SOFT RELEASE RUNNING TOOL

SPECIFICATIONS	
	1.500
Fishneck	1.188
Connections	15/16"-10

C-1 RUNNING TOOL

ASSEMBLY DESCRIPTION

The C-1 Running Tool is designed for use with most Baker Style Equipment (page N1).





C-1 RUNNING TOOL

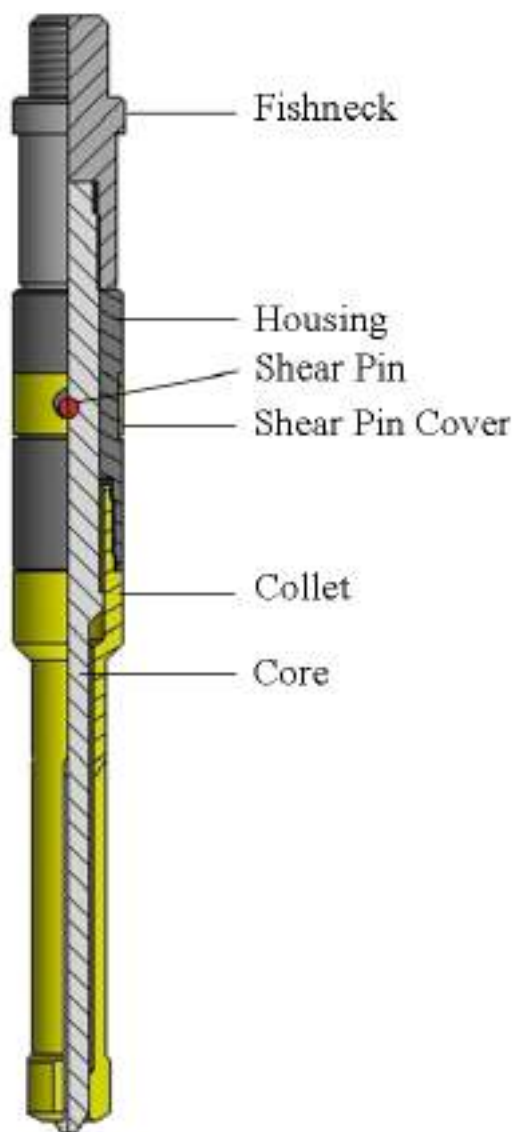
SPECIFICATIONS			
	1.500	1.750	2.000
Fishneck	1.188	1.188	1.375
Connections	15/16"-10	15/16"-10	15/16"-10

SPECIFICATIONS			
	2.500	3.000	4.000
Fishneck	1.750	2.313	3.125
Connections	15/16"-10	1-1/16"-10	1-1/16"-10

D RUNNING TOOL

ASSEMBLY DESCRIPTION

The Type O D Running Tool is used to set the D Lock (page A7) and DD Bridge Plug (page C6).





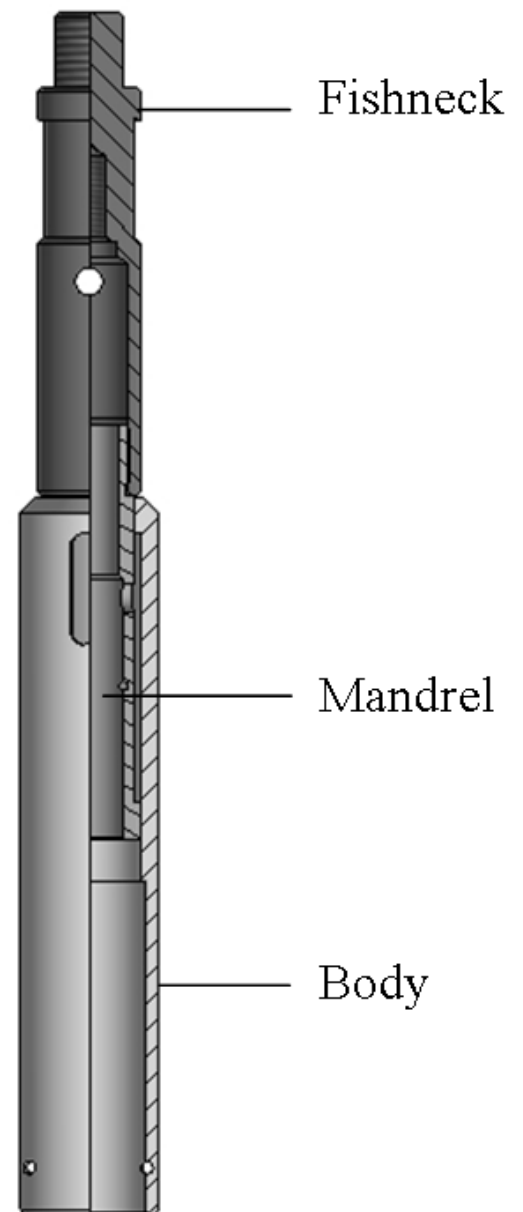
D RUNNING TOOL

SPECIFICATIONS			
	2.000	2.500	3.000
Fishneck	1.375	1.750	1.750
Maximum O.D.	1.340	1.750	2.125
Connections	15/16"-10	15/16"-10	15/16"-10
Made Up Length	12.500	12.906	12.875
Shear Pin	1/4" X 1-3/16"	1/4" X 1-5/8"	1/4" X 2"
Set Screw	1/4"-20 X 1/4"	1/4"-20 X 1/4"	1/4"-20 X 1/4"

DB RUNNING TOOL

ASSEMBLY DESCRIPTION

The DB Running Tool is very similar to the Kodiak's D Running Tool (page I6). It is able to run the same equipment, and additionally it can also run an ABlanking Plug.





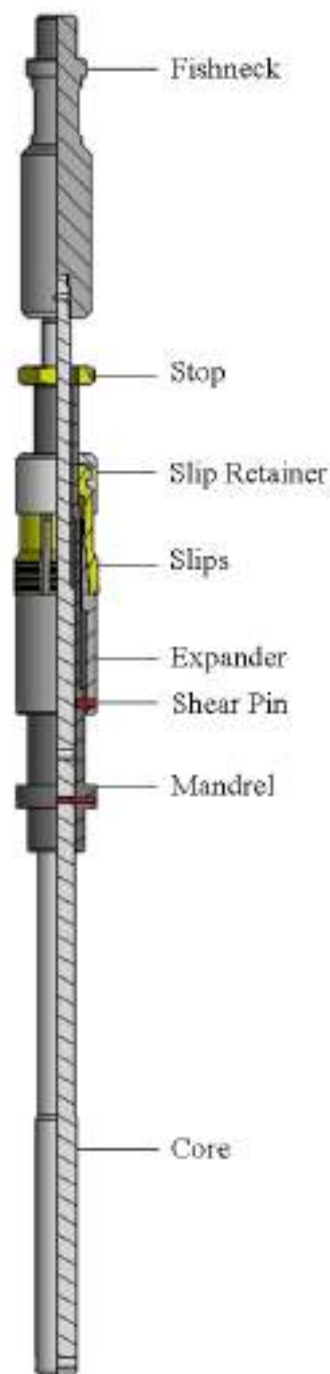
DB RUNNING TOOL

SPECIFICATIONS		
	2.000	2.500
Fishneck	1.375	1.375
Maximum O.D.	1.859	2.296
Connections	15/16"-10	15/16"-10
Made Up Length (Opened)	18.468	15.813
Made Up Length (Closed)	15.218	14.250
Shear Pin	3/16" X 1-3/4"	3/16" X 2-1/4"

G STOP RUNNING TOOL

ASSEMBLY DESCRIPTION

The G Stop Running Tool is used to set G Stop Anchors (page D11).





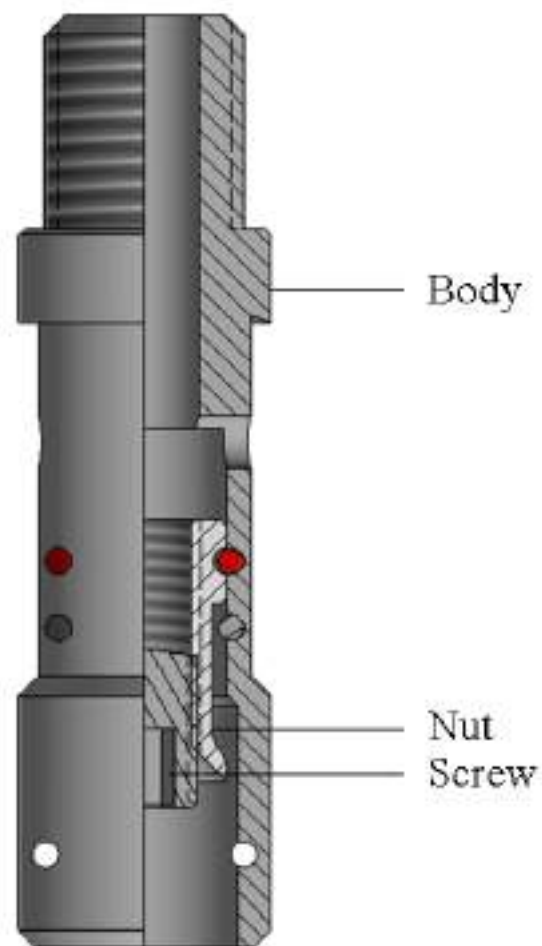
G STOP RUNNING TOOL

SPECIFICATIONS			
	2.000	2.500	3.000
Fishneck	1.375	1.375	1.750
Connections	15/16"-10	15/16"-10	1-1/16"-10
Shear Pin	1/8" X 1 13/16"	1/8" X 2-3/16"	3/16" X 2-11/16"
Set Screw	1/4"-20 X 5/16"	3/8"-16 X 1/2"	3/8"-16 X 1/2"

GA-2 RUNNING TOOL

ASSEMBLY DESCRIPTION

The GA-2 Running Tool is used to set 1" bottom latch valves. The Kodiak's GA-2 Running Tool can be used with the L Kickover Tool (page P4) or K KickoverTool (page P2).





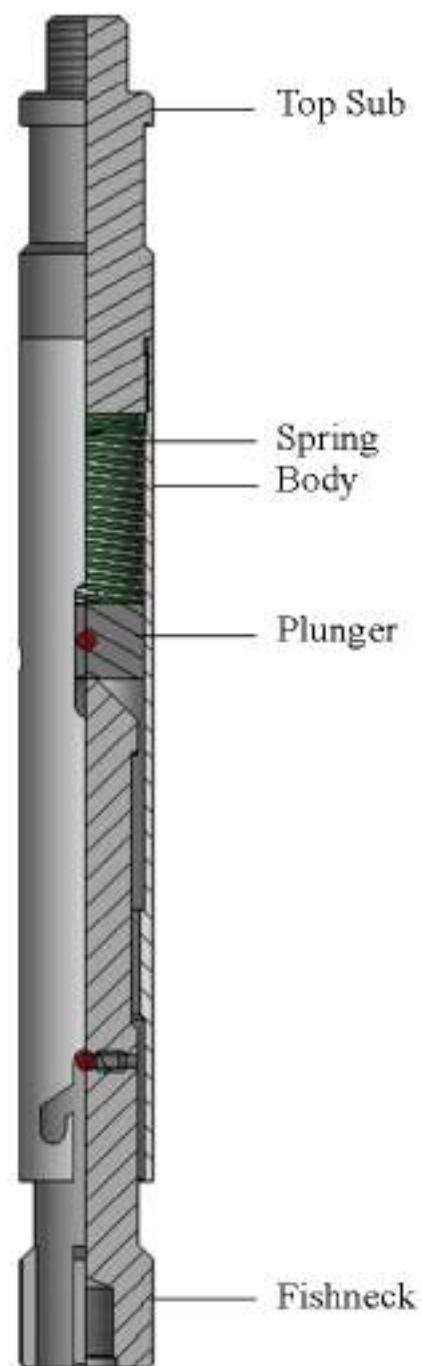
GA-2 RUNNING TOOL

SPECIFICATIONS	
	Standard
Fishneck	1.188
Connections	15/16"-10
Length	3.375
Roll Pins	1/8" X 7/8"
Shear Pins	1/8" X 7/8"

J LATCH SOFT RELEASE

ASSEMBLY DESCRIPTION

The J Latch Soft Release is used to set Bottom Hole Pressure Gauges. The J Head is released by the weight of the tool string. The J Fishneck is left downhole with the Bottom Hole Pressure Gauges for retrieval at a later date.





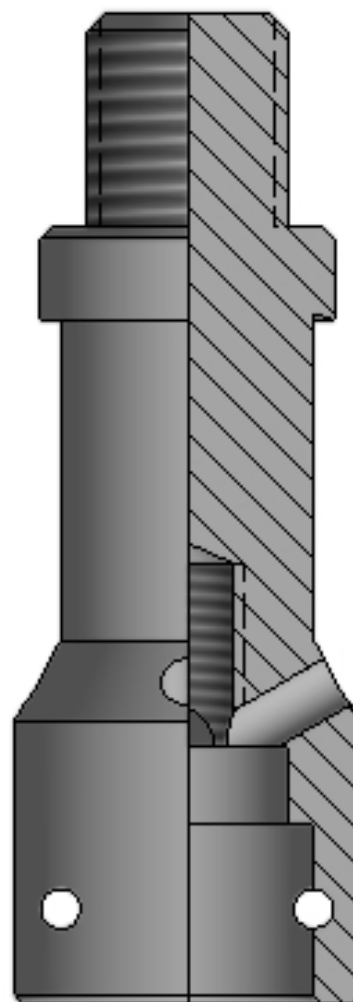
J LATCH SOFT RELEASE

SPECIFICATIONS		
	1.500	1.750
Fishneck	1.375	1.750
Connections	15/16"-10	1-1/16"-10

J RUNNING TOOL

ASSEMBLY DESCRIPTION

The J Running Tool is used to set S Locks (page A13).





J RUNNING TOOL

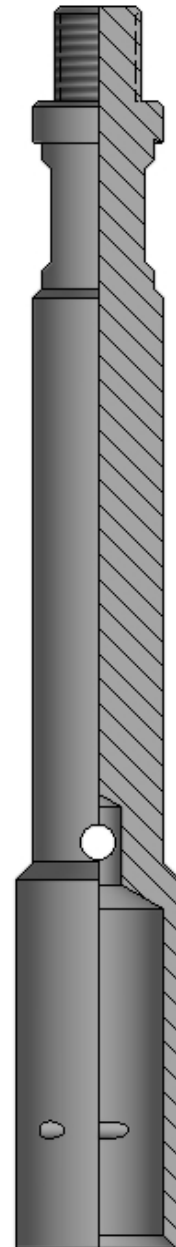
SPECIFICATIONS			
	1.250	1.500	2.000
Fishneck	1.000	1.188	1.375
Maximum O.D.	1.125	1.420	1.625
Pin Connection	5/8"-11	15/16"-10	15/16"-10
Bottom Connection	3/8"-16	3/8"-16	1/2"-13
Length	2.375	3.500	3.688
Shear Pins	1/8" X 1-1/16"	1/8" X 1-3/8"	3/16" X 2-1/16"

SPECIFICATIONS			
	2.500	3.000	4.000
Fishneck	1.375	2.313	2.313
Maximum O.D.	2.125	2.500	3.500
Pin Connection	15/16"-10	1-1/16"-10	1-1/16"-10
Bottom Connection	1/2"-13	5/8"-11	1 1/4"-12
Length	3.688	4.625	5.063
Shear Pins	3/16" X 2-1/16"	3/16" X 2-1/16"	3/16" X 3-7/16"

JC-3 RUNNING TOOL

ASSEMBLY DESCRIPTION

The JC-3 Running Tool is used to run the R or RA Latch in the appropriate MM Mandrel.





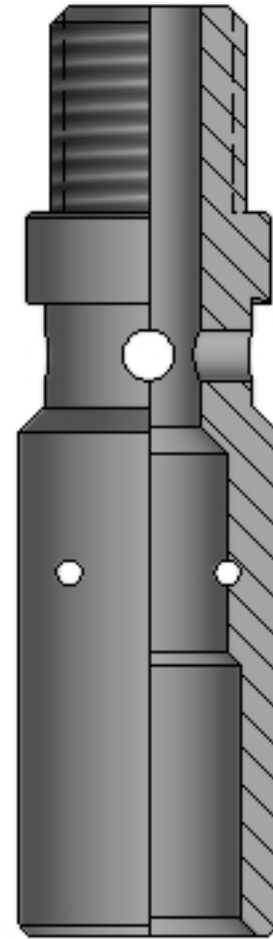
JC-3 RUNNING TOOL

SPECIFICATIONS		
	Standard	Extended
Fishneck	1.375	1.375
Maximum O.D.	1.750	1.750
Connections	15/16"-10	15/16"-10
Length	6.188	12.000
Shear Pin	3/16" X 1-5/8"	3/16" X 1-5/8"

JK RUNNING TOOL

ASSEMBLY DESCRIPTION

The JK Running Tool, is used with a Kickover Tool (page P1) to install the BK and BK-2 Latches in side pocket mandrels.





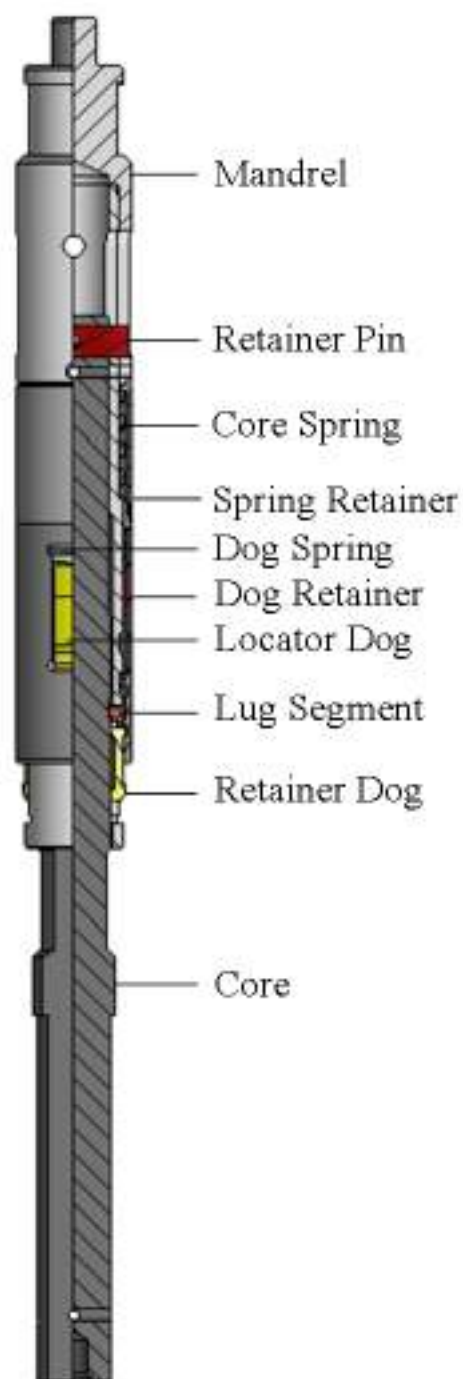
JK RUNNING TOOL

SPECIFICATIONS	
	Standard
Fishneck	1.188
Maximum O.D.	1.300
Connections	15/16"-10
Length	3.550
Shear Pin	1/8" X 1-1/8"

Kodiak's R-LINE RUNNING TOOL

ASSEMBLY DESCRIPTION

The Kodiak's R-Line Running Tool is used to run, locate, and set subsurface devices in corresponding selective or No-Go Landing Nipples, such as the Kodiak's R Landing Nipple (page B4) or the Kodiak's RN Landing Nipple (page B5).





Kodiak's R-LINE RUNNING TOOL

SPECIFICATIONS				
	1.710	1.781	1.875	2.000
Fishneck	1.188	1.375	1.375	1.375
Maximum O.D. (Dogs Retracted)	1.640	1.750	1.750	1.938
Pin Connection	15/16"-10	15/16"-10	15/16"-10	15/16"-10
Bottom Connection	3/8"-16	1/2"-13	1/2"-13	1/2"-13
Length	30.063	29.313	29.313	29.313

SPECIFICATIONS				
	2.125	2.188	2.313	2.562
Fishneck	1.375	1.750	1.750	1.750
Maximum O.D. (Dogs Retracted)	2.063	2.175	2.175	2.500
Pin Connection	15/16"-10	15/16"-10	15/16"-10	15/16"-10
Bottom Connection	1/2"-13	5/8"-11	5/8"-11	5/8"-11
Length	29.313	29.313	29.313	30.250



Kodiak's R-LINE RUNNING TOOL

SPECIFICATIONS				
	2.750	2.813	2.875	3.313
Fishneck	2.313	2.313	2.313	2.313
Maximum O.D. (Dogs Retracted)	2.690	2.690	2.840	3.250
Pin Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10
Bottom Connection	3/4"-10	3/4"-10	3/4"-10	1-7/8"-12
Length	32.000	32.000	32.000	32.406

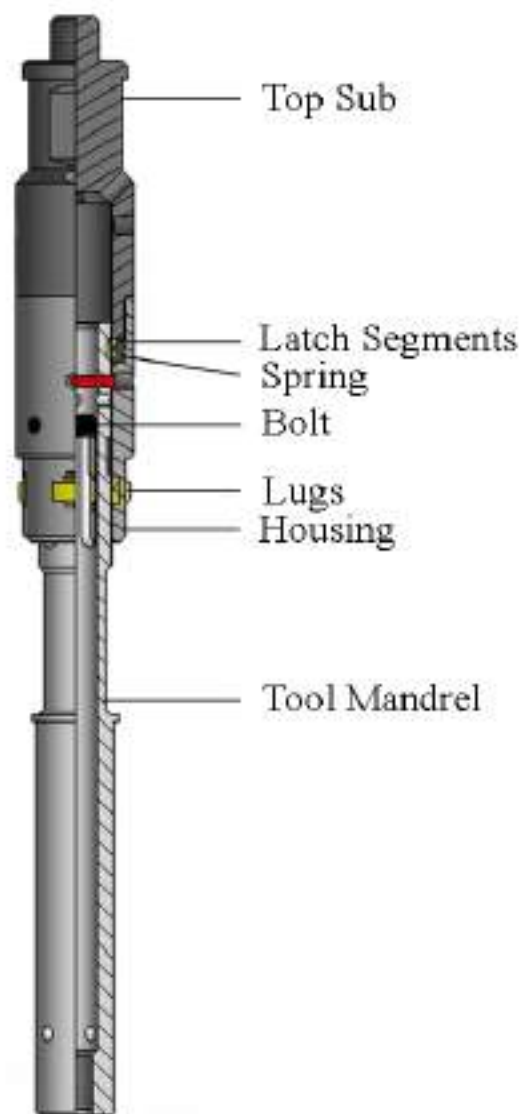
SPECIFICATIONS				
	3.437	3.688	3.813	4.000
Fishneck	2.313	2.313	2.313	2.313
Maximum O.D. (Dogs Retracted)	3.410	3.610	3.750	3.940
Pin Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10
Bottom Connection	1-3/8"-12	1-7/8"-12	1-7/8"-12	1-7/8"-12
Length	33.800	33.800	33.800	33.800

SPECIFICATIONS				
	4.125	4.313	4.562	4.750
Fishneck	2.313	2.313	3.125	3.125
Maximum O.D. (Dogs Retracted)	3.940	4.280	4.500	4.690
Pin Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10
Bottom Connection	2-1/8"-12	2-1/8"-12	2-3/16"-12	2-1/2"-10
Length	33.800	33.800	33.800	33.800

Kodiak's RX RUNNING TOOL

ASSEMBLY DESCRIPTION

The Kodiak's RX Running Tool is used to set Kodiak's R / RN Locks (page A9) and Kodiak's X / XN Locks (page A17) in their respective Landing Nipples (page B1). The Kodiak's RX Running Tool is able to deploy the locks with their keys maintained in whichever position the operator requires. The shear pin in the Kodiak's RX Running Tool allows the operator to accurately determine that the lock has been properly set in the top of the Landing Nipple.





Kodiak's RX RUNNING TOOL

SPECIFICATIONS				
For Kodiak's R / RN Locks				
	2.750	3.688	3.813	4.313
Fishneck	2.313	2.313	2.313	2.313
Pin Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10
Bottom Connection	1-1/4"-12	1-7/8"-12	2-1/8"-12	2-1/8"-12
Length	24.200	24.700	24.700	24.700

SPECIFICATIONS				
For Kodiak's X / XN Locks				
	2.875	3.688	3.813	4.000
Fishneck	2.310	3.125	3.125	3.125
Pin Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10
Bottom Connection	1-1/4"-12	1-7/8"-12	1-5/8"-12	1-7/8"-12
Length	24.200	24.700	24.700	24.700

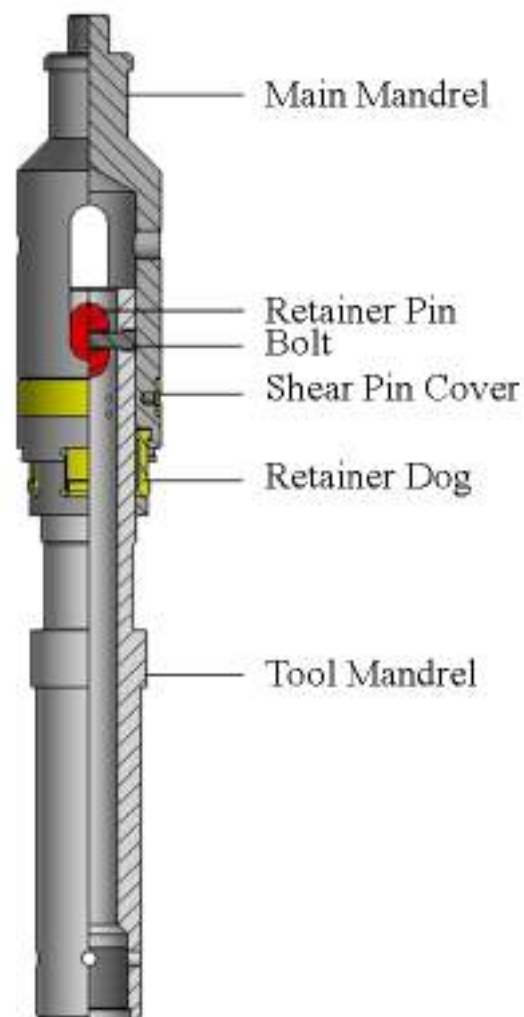
SPECIFICATIONS				
For Kodiak's X / XN Locks				
	4.125			
Fishneck	3.125			
Pin Connection	1-1/16"-10			
Bottom Connection	2-1/8"-12			
Length	24.700			

Kodiak's RXN RUNNING TOOL

ASSEMBLY DESCRIPTION

The Kodiak's RXN Running Tool is used to set Kodiak's R / RN Locks (page A9) and Kodiak's X / XN Locks (page A17) in their respective Landing Nipples (page B1). The Kodiak's RXN Running Tool is able to deploy the locks with their Keys maintained in whichever position the operator requires.

The Shear Pin in the Kodiak's RXN Running Tool allows the operator to accurately determine that the lock has been properly set in the top of the Landing Nipple. The Kodiak's RXN Running Tool is very similar to the RX Running Tool (page I25), except that the RXN Running Tool utilizes Retainer Dogs rather than Lug Segments to attach to the lock.





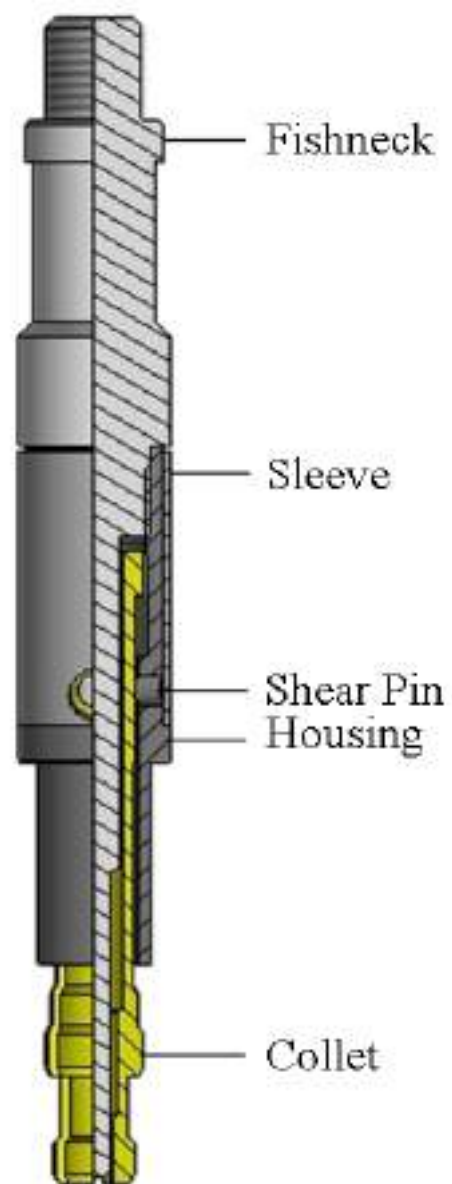
Kodiak's RXN RUNNING TOOL

SPECIFICATIONS	
	4.125
Fishneck	3.125
Pin Connection	1-1/16"-10
Bottom Connection	2-1/8"-12
Length	24.700

W RUNNING TOOL

ASSEMBLY DESCRIPTION

The W Running Tool is designed to install B, C, and W Locks (page A15).





W RUNNING TOOL

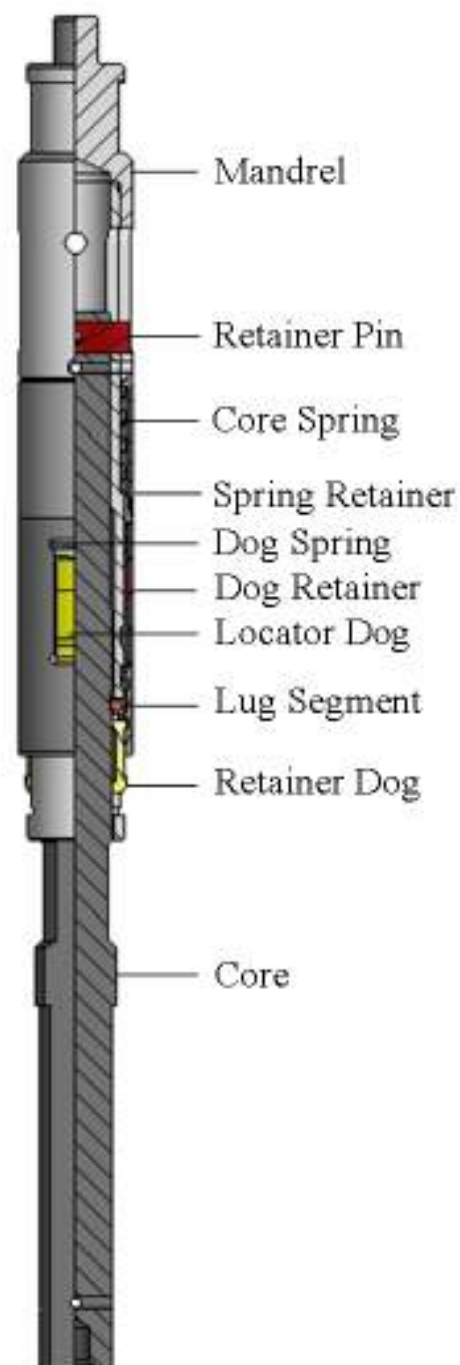
SPECIFICATIONS			
	1.500	2.000	2.500
Fishneck	1.188	1.375	1.375
Maximum O.D.	1.375	1.500	1.500
Pin Connection	15/16"-10	15/16"-10	15/16"-10
Length	9.343	10.438	10.438
Shear Pins	1/4" X 3/8"	5/16" X 3/8"	5/16" X 3/8"
Engages	0.688	1.000	1.000

SPECIFICATIONS			
	3.000	3.500	4.000
Fishneck	1.750	2.313	2.313
Maximum O.D.	2.250	1.500	2.750
Pin Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10
Length	10.000	10.000	9.750
Shear Pins	5/16" X 1/2"	5/16" X 3/8"	5/16" X 5/8"
Engages	1.500	1.000	1.906

Kodiak's X-LINE RUNNING TOOL

ASSEMBLY DESCRIPTION

The Kodiak's X-Line Running Tool is used to run, locate, and set subsurface devices in corresponding selective or No-Go Landing Nipples, such as the Kodiak's X Landing Nipple (page B6), or the Kodiak's XN Landing Nipple (page B7).





Kodiak's X-LINE RUNNING TOOL

SPECIFICATIONS				
	1.250	1.500	1.625	1.875
Fishneck	1.000	1.188	1.188	1.375
O.D. (Dogs Retracted)	1.160	1.410	1.593	2.718
O.D. (Dogs Expanded)		1.562	1.672	2.843
Pin Connection	5/8"-11	15/16"-10	15/16"-10	15/16"-10
Bottom Connection	3/8"-16	3/8"-16	3/8"-16	1/2"-13
Length	29.400	30.063	30.063	29.313
Shear Pin		3/16" X 1-1/8"	3/16" X 1-1/8"	1/4" X 2-1/2"

SPECIFICATIONS				
	2.313	2.750	2.813	2.875
Fishneck	1.750	2.313	2.313	2.313
O.D. (Dogs Retracted)	2.175	2.718	2.718	2.844
O.D. (Dogs Expanded)	2.359	2.843	2.906	2.938
Pin Connection	15/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10
Bottom Connection	5/8"-11	3/4"-10	3/4"-10	3/4"-10
Length	30.250	31.000	31.000	31.000
Shear Pin	1/4" X 1-7/8"	1/4" X 2-1/2"	1/4" X 2-1/2"	1/4" X 2-1/2"



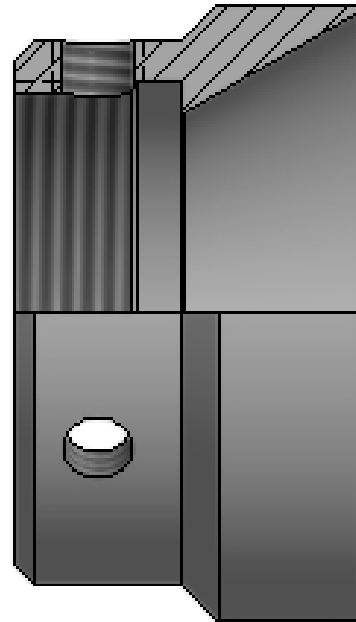
Kodiak's X-LINE RUNNING TOOL

SPECIFICATIONS				
	3.313	3.688	3.813	4.313
Fishneck	2.313	2.313	2.313	2.313
O.D. (Dogs Retracted)	3.250	3.610	3.750	4.280
O.D. (Dogs Expanded)	3.406	3.750	3.890	
Pin Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10
Bottom Connection	1-3/8"-12	2-1/8"-12	2-1/8"-12	2-1/8"-12
Length	32.406	33.406	32.375	33.380
Shear Pin	1/4" X 2-7/8"	1/4" X 3"	1/4" X 3-1/4"	

BELL GUIDE

ASSEMBLY DESCRIPTION

A Bell Guide is used in conjunction with a pulling tool to direct the pulling tool towards the desired fishneck in a wide well opening. This removes the need for a Tubing Centralizer (page H9), and can be a much cheaper way of centering the assembly within the tubing.



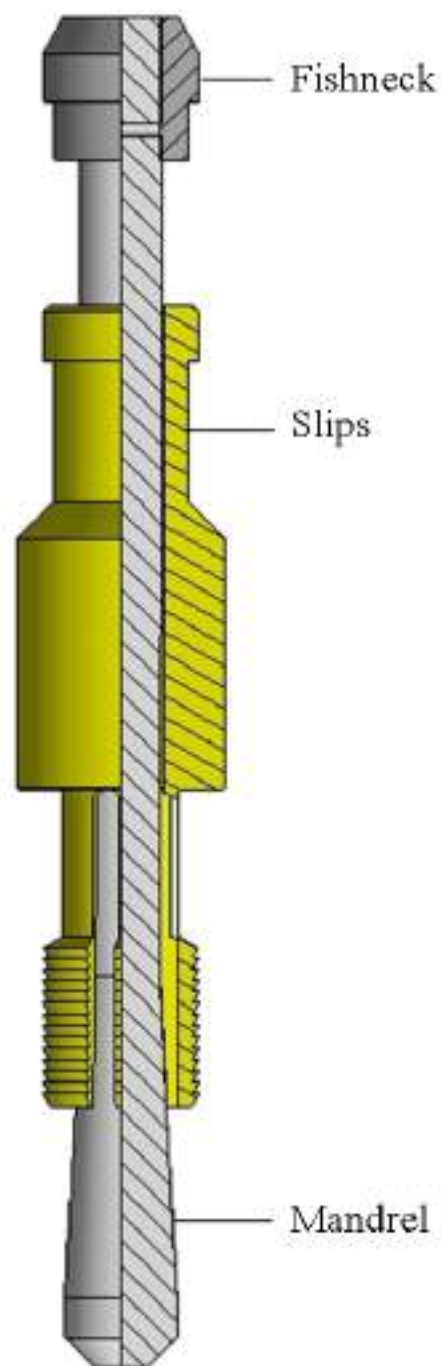
BULL DOG SPEAR

ASSEMBLY DESCRIPTION

The Bull Dog Spear is designed to pull tools as a last resort situation. The tool is designed to get inside of an I.D. and the slips will expand to latch onto the wall in order to pull out the desired tool.

Please specify the following when ordering the Bull Dog Spear:

- *The Minimum I.D. of the targeted assembly
- *The well conditions and limitations so as to prevent the Bull Dog Spear from being unable to locate the target properly





BULL DOG SPEAR

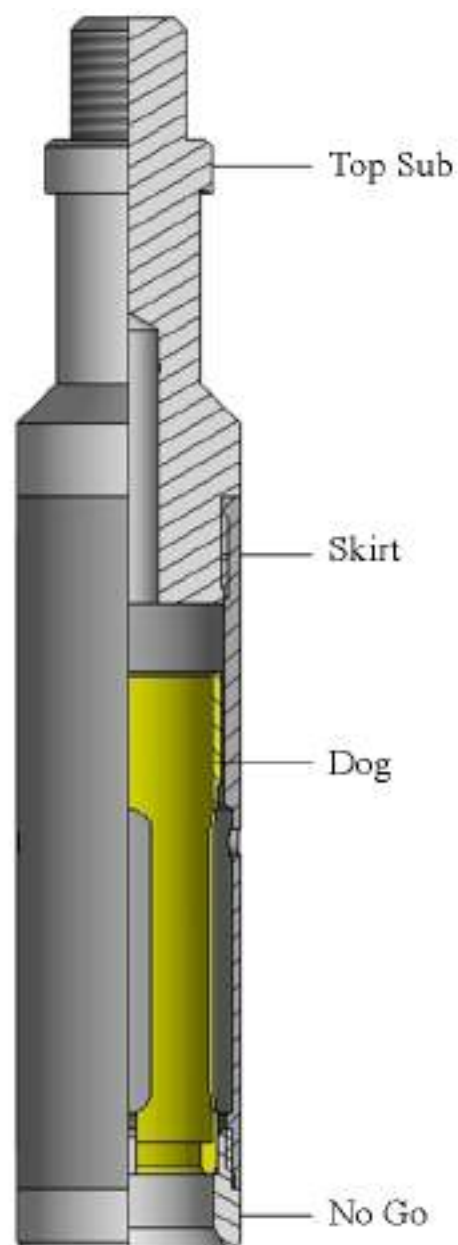
SPECIFICATIONS			
	2.000	2.500	3.000
Fishneck	1.375	1.750	1.750
Connections	3/4"-16	1"-14	1-1/4"-12

SPECIFICATIONS			
	3.437	4.000	
Fishneck	2.313	3.125	
Connections	1-13/16"-12	2-5/16"-16	

GG FISHING SOCKET

ASSEMBLY DESCRIPTION

The GG Fishing Socket is a non-releasable pulling tool.





GG FISHING SOCKET

SPECIFICATIONS			
	1-1/2 X 7/8	2 X 3/4	2 X 7/8
Fishneck	1.375	1.375	1.375
Connections	15/16"-10	15/16"-10	15/16"-10

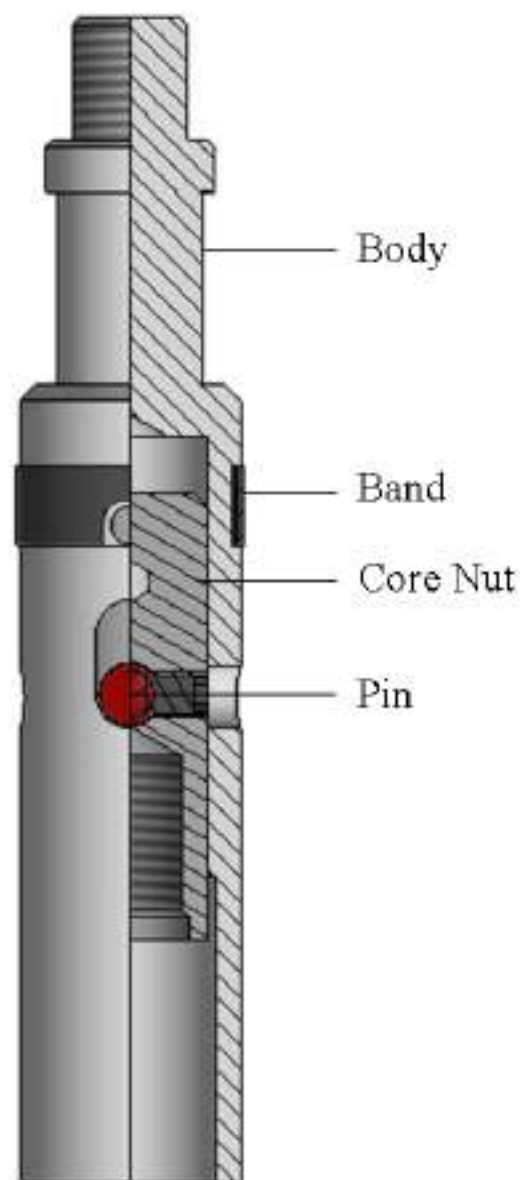
SPECIFICATIONS			
	2 X 1	2 X 1-3/16	2 X 1-3/8
Fishneck	1.375	1.375	1.375
Connections	15/16"-10	15/16"-10	15/16"-10

GR ADAPTER

ASSEMBLY DESCRIPTION

The GR Adapter is used in conjunction with the GS Pulling Tool (page J9) to convert it into a jar up to release type tool.

The shear pin of the GS Pulling Tool must be removed after the GR Adapter is installed in the assembly.





GR ADAPTER

SPECIFICATIONS			
	1.500	2.000	2.500
Fishneck	1.188	1.375	1.375
Maximum O.D.	1.460	1.813	2.125
Connections	15/16"-10	15/16"-10	15/16"-10
Shear Pin	1/4" X 1-5/16"	5/16" X 1-11/16"	5/16" X 2"
Length	8.375	8.375	8.875

SPECIFICATIONS			
	3.000	4.000	5.000
Fishneck	2.313	2.313	3.125
Maximum O.D.	2.725	2.725	4.000
Connections	1 1/16"-10	1 1/16"-10	1 1/16"-10
Shear Pin	3/8" X 2-1/2"	3/8" X 2-1/2"	5/16" X 3-13/16"
Length	9.313	9.313	10.750

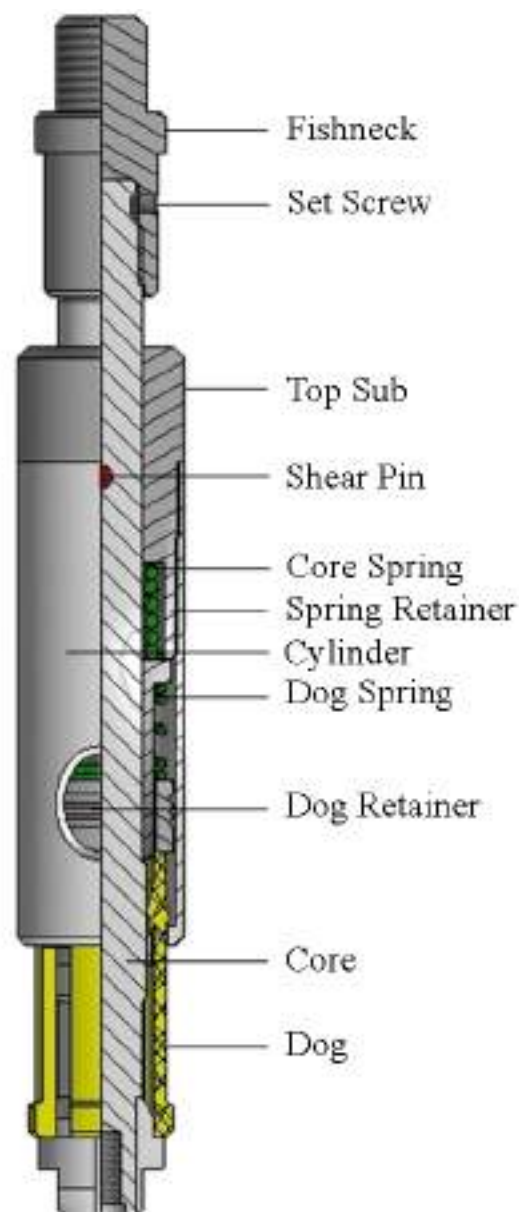
GS PULLING TOOL

ASSEMBLY DESCRIPTION

The GS Pulling Tool is used to latch internal fishnecks on Kodiak's equipment that requires being sheared down before being pulled.

The GS Pulling Tool is a shear down assembly, but the addition of a GR Adapter (page J7) converts the GS Pulling Tool into a shear up assembly.

A GRL version with an extended Core nose is available and required to pull D Locks (page A7).





GS PULLING TOOL

SPECIFICATIONS			
	1.250	1.500	2.000
Fishneck	1.000	1.188	1.375
Maximum O.D.	1.150	1.469	1.750
Pin Connection	5/8"-11	15/16"-10	15/16"-10
Bottom Connection	3/8"-16	1/2"-13	1/2"-13
Shear Pin	3/16" X 1"	3/16" X 1-7/32"	1/4" X 1-39/64"
Fishneck Engages	0.882	1.062	1.375
Reach	0.790	1.219	1.203
Length	7.937	10.750	11.625
Set Screw	1/4"-20 X 1/4"	1/4"-20 X 1/4"	1/4"-20 X 1/4"

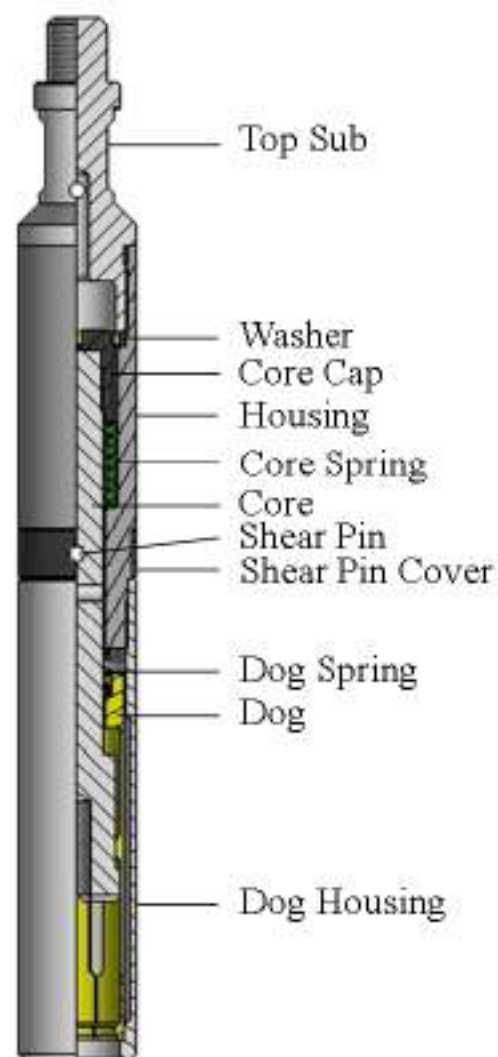
SPECIFICATIONS			
	2.500	3.000	3.500
Fishneck	1.750	2.313	2.313
Maximum O.D.	2.160	2.719	3.100
Pin Connection	1-1/16"-10	1 1/16"-10	1 1/16"-10
Bottom Connection	5/8"-11	5/8"-11	1-3/8"-12
Shear Pin	1/4" X 1-31/32"	1/4" X 2-31/64"	5/16" X 2-23/32"
Fishneck Engages	1.812	2.313	2.625
Reach	1.203	1.219	1.250
Length	11.875	12.125	12.375
Set Screw	1/4"-20 X 1/4"	1/4"-20 X 5/16"	1/4"-20 X 5/16"

SPECIFICATIONS			
	4.000	5.000	7.000
Fishneck	2.313	3.125	3.125
Maximum O.D.	3.625	4.500	5.820
Pin Connection	1 1/16"-10	1 1/16"-10	1 1/16"-10
Bottom Connection	2 1/8"-12	2 1/2"-10	3 5/8"-10
Shear Pin	5/16" X 3-23/64"	5/16" X 4-1/4"	3/8" X 5-1/16"
Fishneck Engages	3.125	4.000	5.250
Reach	1.203	1.250	1.985
Length	11.375	17.500	21.000
Set Screw	1/4"-20 X 5/16"	1/4"-20 X 3/8"	1/2"-13 X 3/8"

HEAVY-DUTY PULLING TOOL

ASSEMBLY DESCRIPTION

The Kodiak's Heavy-Duty Pulling Tool is a collet style pulling tool designed to latch and retrieve wireline tools where heavy jarring is required. The Heavy-Duty Pulling Tool is extremely durable and allows a full 360 degrees of engagement with the target fishneck.





HEAVY-DUTY PULLING TOOL

SPECIFICATIONS			
	1.250	1.625	2.000
Fishneck	1.187	1.187	1.375
Maximum O.D.	1.280	1.625	1.875
Pin Connection	15/16"-10	15/16"-10	15/16"-10
Bottom Connection	1/4"-20	1/2"-13	1/2"-13
Shear Pin	3/16"	3/16"	5/16"
Fishneck Engages	0.900	1.250	1.375
Length	14.650	16.680	16.700

SPECIFICATIONS			
	2.500	3.000	3.250
Fishneck	1.750	2.313	2.313
Maximum O.D.	2.300	2.800	2.800
Pin Connection	1 1/16"-10	1 1/16"-10	1 1/16"-10
Bottom Connection	1/2"-13	5/8"-11	5/8"-11
Shear Pin	5/16"	5/16"	5/16"
Fishneck Engages	1.750	2.313	2.313
Length	16.700	18.710	18.710

JD PULLING TOOL

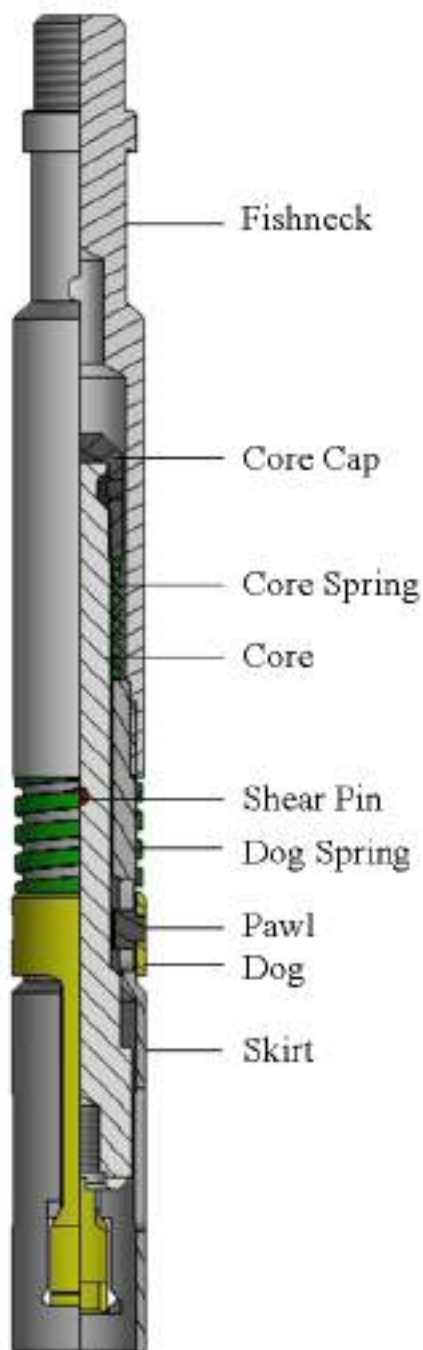
ASSEMBLY DESCRIPTION

The JD Pulling Tool is the jar down version of the J Pulling Tool series. It can accommodate different Cores to change the reach of the tool during operation.

*The C Core is the longest Core, but it has the shortest reach.

*The S Core has a medium length, and a medium reach.

*The L Core is a short Core with the longest reach.





JD PULLING TOOL

SPECIFICATIONS				
	1.250	1.375	1.500	1.625
Fishneck	1.188	1.188	1.188	1.188
Pin Connection	15/16"-10	15/16"-10	15/16"-10	15/16"-10
Maximum O.D.	1.290	1.375	1.422	1.625
Bottom Connection	1/4"-20	1/4"-20	1/2"-13	1/2"-13
Shear Pin	3/16" X 1-9/64"	3/16" X 1-9/64"	3/16" X 1-11/64"	3/16" X 1-11/64"
Fishneck Engages	0.875	1.000	1.187	1.187
C Core Reach	1.906	1.813	1.093	1.031
S Core Reach	2.656	2.562	1.843	2.281
Length	12.906	13.000	13.063	13.000

SPECIFICATIONS				
	2.000	2.500	3.000	4.000
Fishneck	1.375	1.375	1.750	2.313
Pin Connections	15/16"-10	15/16"-10	1-1/16"-10	1-1/16"-10
Maximum O.D.	1.859	2.250	2.796	3.750
Bottom Connection	1/2"-13	1/2"-30	5/8"-11	1-1/4"-12
Shear Pin	5/16" X 1-31/64"	5/16" X 1-27/32"	3/8" X 2-11/32"	3/8" X 3-19/64"
Fishneck Engages	1.375	1.750	2.313	3.125
C Core Reach	1.437	1.265	1.643	2.313
S Core Reach	2.281	2.391	2.297	3.375
Length	14.391	14.765	15.000	19.093

JU PULLING TOOL

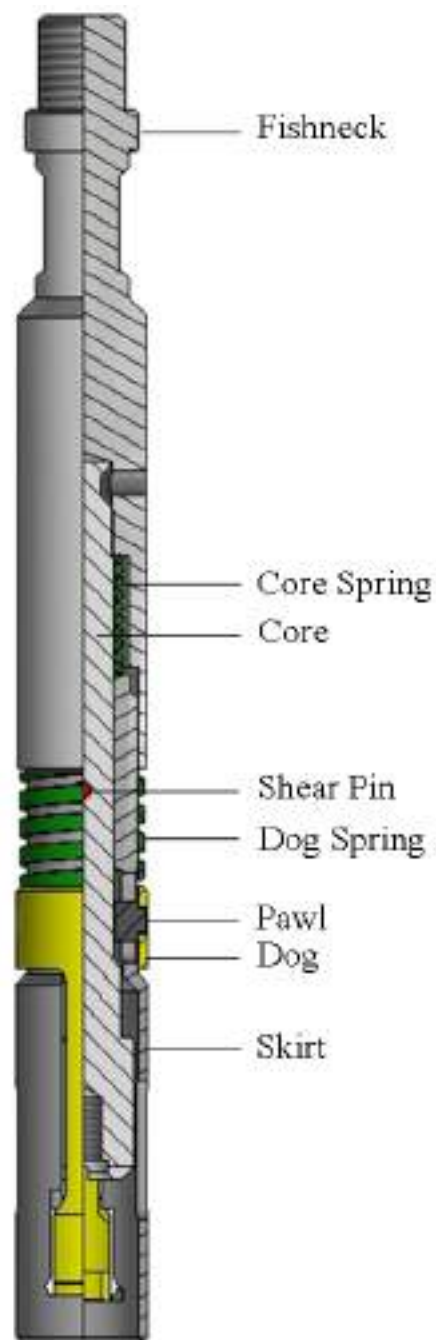
ASSEMBLY DESCRIPTION

The JU Pulling Tool is the jar up version in the J Pulling Tool series. It can accommodate different Cores to change the reach of the tool during operation.

*The C Core is the longest Core, but it has the shortest reach.

*The S Core has a medium length, and a medium reach.

*The L Core is a short Core with the longest reach.





JU PULLING TOOL

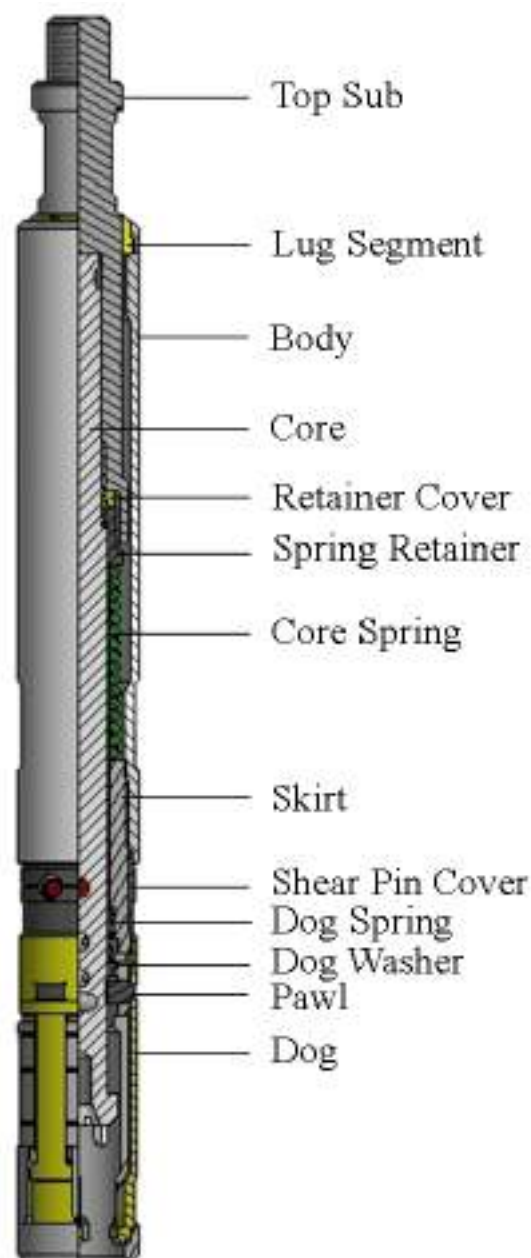
SPECIFICATIONS				
	1.250	1.375	1.500	1.625
Fishneck	1.188	1.188	1.188	1.188
Pin Connections	15/16"-10	15/16"-110	15/16"-10	15/16"-10
Maximum O.D.	1.290	1.375	1.422	1.625
Bottom Connections	1/4"-20	1/4"-20	1/2"-13	1/2"-13
Shear Pin	3/16" X 1-9/64"	3/16" X 1-9/64"	3/16" X 1-11/64"	3/16" X 1-11/64"
Fishneck Engages	0.875	1.000	1.187	1.187
C Core Reach	1.937	1.000	1.093	1.093
S Core Reach	2.688	2.625	1.843	1.843
Length	12.906	12.281	13.000	12.938

SPECIFICATIONS				
	2.000	2.500	3.000	4.000
Fishneck	1.375	1.375	1.750	2.313
Pin Connections	15/16"-10	15/16"-10	1-1/16"-10	1-1/16"-10
Maximum O.D.	1.859"	2.250	2.797	3.750
Bottom Connections	1/2"-13	1/2"-13	5/8"-11	1-1/4"-12
Shear Pin	5/16" X 1-31/64"	5/16" X 1-27/32"	3/8" X 2-21/64"	3/8" X 3-19/64"
Fishneck Engages	1.375	1.750	2.313	3.125
C Core Reach	1.437	1.312	1.437	3.375
S Core Reach	2.125	2.188	2.125	2.313
Length	14.328	14.750	14.750	19.062

MULTIFUNCTIONAL PULLING TOOL

ASSEMBLY DESCRIPTION

The Kodiak's Multifunctional Pulling Tool combines the functionality of both shear up and shear down tools. This tool is able to be switched between shear up and shear down modes without the need of accessory parts. It is able to replace each of the following Kodiak's Tools: JD Pulling Tools (page J13), JU Pulling Tools (page J15), R Pulling Tools (page J23), and S Pulling Tools (page J29). The Core of the Multifunctional Pulling Tool may be pinned in different locations on the tool so as to provide different reaches and assembly lengths. The shear pin is even able to be changed out without disassembling the Multifunctional Pulling Tool.





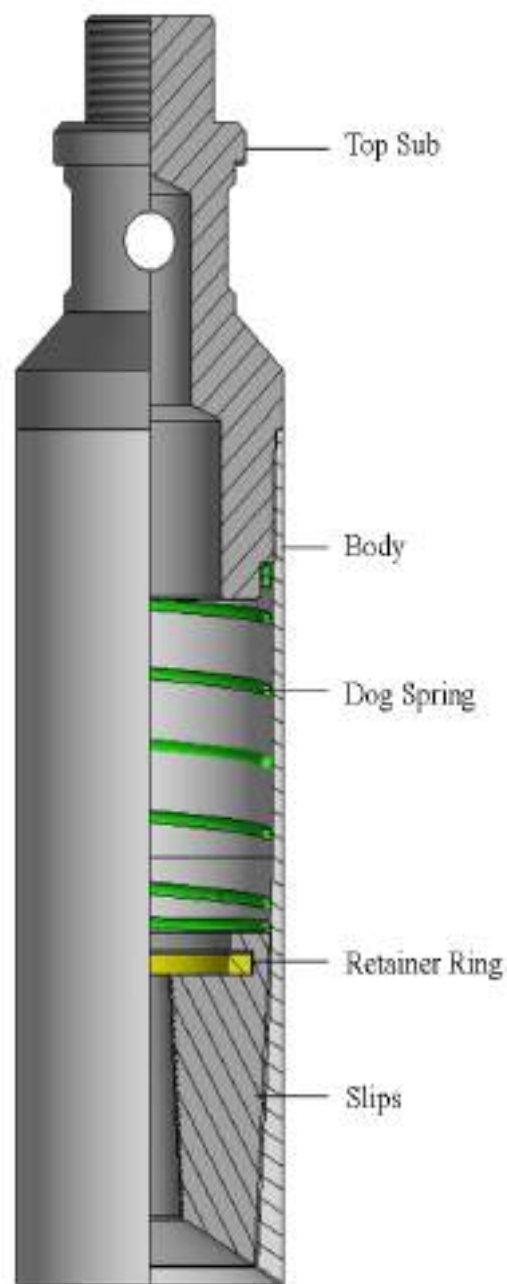
MULTIFUNCTIONAL PULLING TOOL

SPECIFICATIONS				
	1.250	2.000	2.500	3.000
Fishneck	1.187	1.375	1.375	1.750
Connections	15/16"-10	15/16"-10	15/16"-10	1-1/16"-10
O.D.	1.290	1.860	2.250	2.800
Length	16.750	22.450	23.610	23.750

NON-RELEASEABLE OVERSHOT

ASSEMBLY DESCRIPTION

The Kodiak's Non-Releaseable Overshot is used to retrieve assemblies that either lack a fishneck or have a broken or damaged fishneck. The Non-Releaseable Overshot will be able to latch around the targeted assembly to provide a new fishneck.





NON-RELEASEABLE OVERSHOT

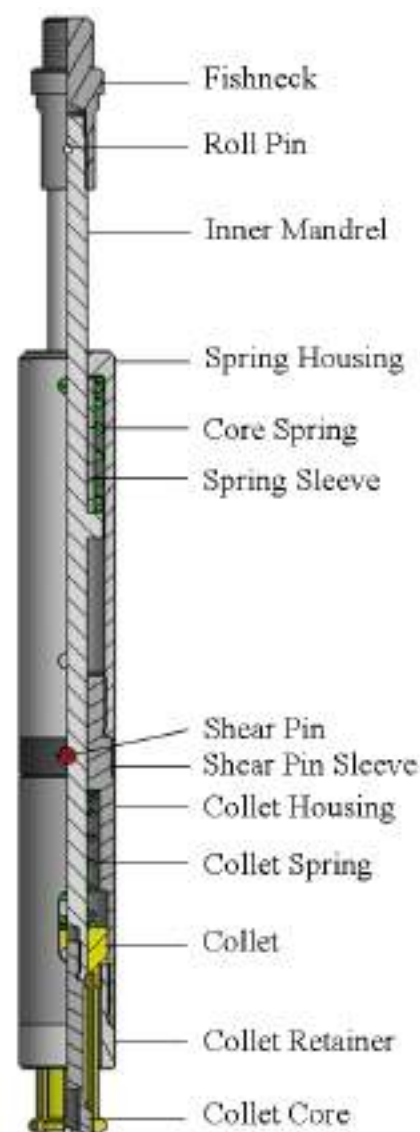
SPECIFICATIONS			
	1.500	1.750	2.250
Fishneck	1.375	1.375	1.375
Connections	15/16"-10	15/16"-10	15/16"-10

SPECIFICATIONS			
	2.625	3.800	
Fishneck	1.750	2.313	
Connections	1-1/16"-10	1-3/16"-10	

PRS PULLING TOOL

ASSEMBLY DESCRIPTION

The PRS Pulling Tool is a shear releasing tool used in pulling subsurface devices which have internal fishnecks. The PRS Pulling Tool can be configured to shear up or down depending upon the pulling operations.





PRS PULLING TOOL

SPECIFICATIONS			
	2.000	2.500	4.000
Fishneck	1.375	1.375	2.313
Connections	15/16"-10	15/16"-10	1-1/16"-10
Maximum O.D.	1.820	1.820	3.500

R PULLING TOOL

ASSEMBLY DESCRIPTION

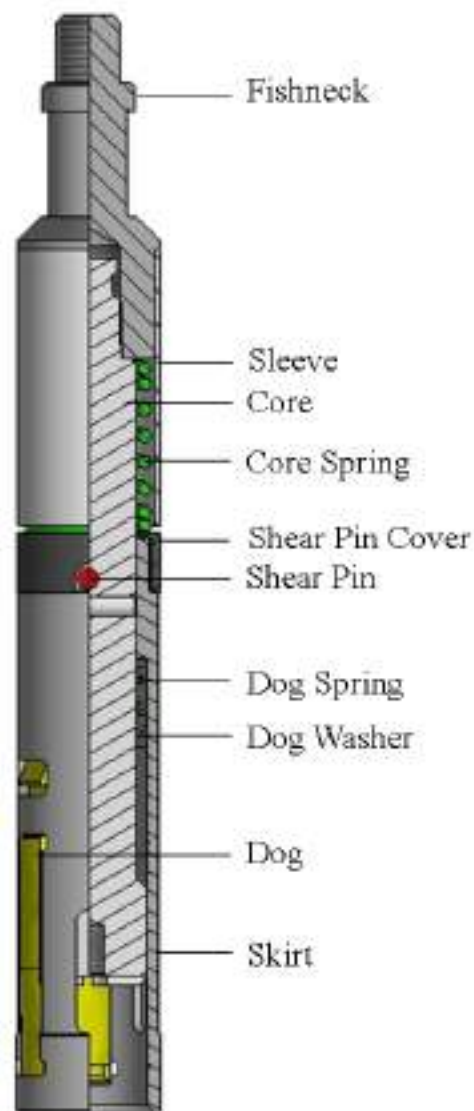
The Kodiak's R Pulling Tool is a shear up releasing tool designed to pull equipment with an external fishneck. The following Cores are available for the RPulling Tool:

- *The B Core is a long Core, and offers a short reach.

- *The S Core is a medium length, and offers a medium reach.

- *The J Core is a short Core, and offers a long reach.

- *The Q Core is unique in that it latches onto male connectors, and is a very short Core.





R PULLING TOOL

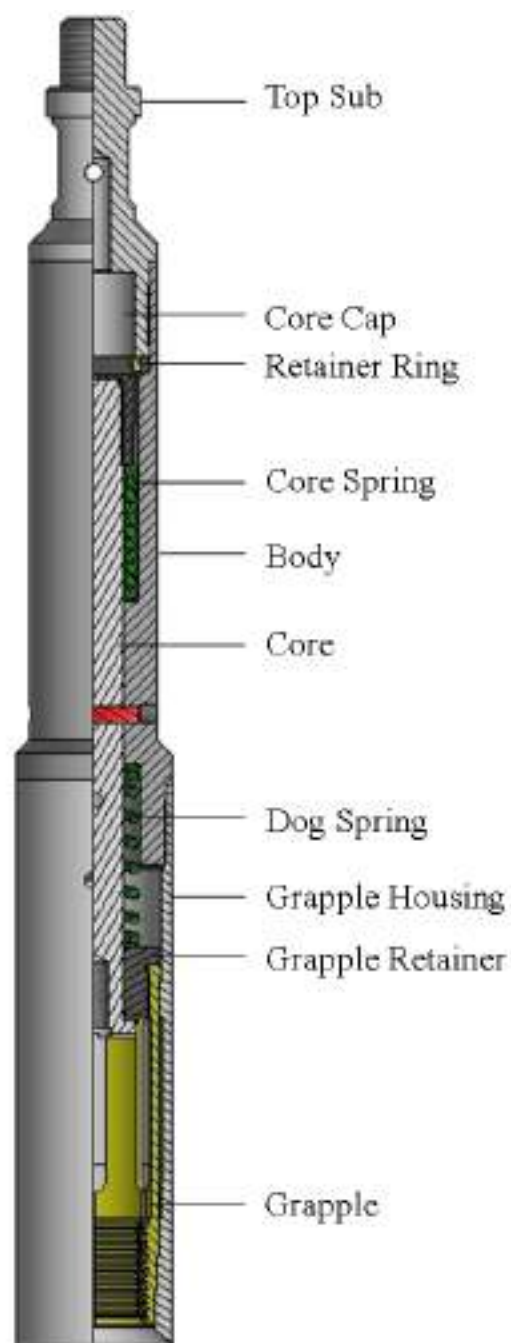
SPECIFICATIONS				
	1.000	1.250	1.500	2.000
Fishneck	0.750	1.000	1.188	1.375
Connections	5/8"-11	5/8"-11	15/16"-10	15/16"-10
Maximum O.D.	0.970	1.220	1.425	1.770
B Core Reach	1.328	1.218	1.265	1.219
J Core Reach		2.125	2.547	2.547
S Core Reach	1.000	1.843	1.797	1.984

SPECIFICATIONS				
	2.500	3.000	4.000	
Fishneck	1.375	2.313	2.313	
Connections	15/16"-10	1-1/16"-10	1-1/16"-10	
Maximum O.D.	2.170	2.720	3.660	
B Core Reach	1.203	1.297	1.490	
J Core Reach	2.547	2.609	2.720	
S Core Reach	1.984	2.190	2.240	

RELEASEABLE OVERSHOT

ASSEMBLY DESCRIPTION

The Kodiak's Releaseable Overshot is used to retrieve tools that have no fishneck, or if the tool's fishneck is damaged. This assembly has multiple Cores that are able to change the length of the assembly, thus granting varying reaches. If a device cannot be recovered, jarring the assembly down will shear the releasing pin, thus allowing the Kodiak's Releaseable Overshot to then be released from the targeted assembly.





RELEASEABLE OVERSHOT

SPECIFICATIONS			
	2.000	2.500	3.000
Fishneck	1.375	1.375	1.750
Connections	15/16"-10	15/16"-10	1-1/16"-10
Maximum O.D.	1.850	2.250	2.625

SPECIFICATIONS			
	3.500	4.000	
Fishneck	2.313	2.313	
Connections	1-1/16"-10	1-9/16"-10	
Maximum O.D.	3.250	3.800	

RELEASING TOOL

ASSEMBLY DESCRIPTION

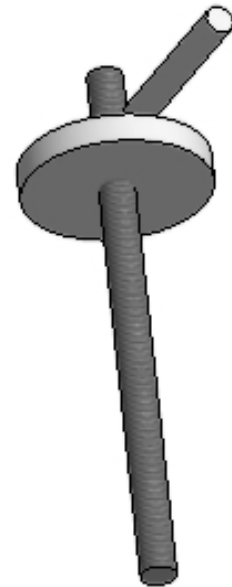
The Releasing Tool is used to release the fishneck from the skirt on the Kodiak's R Pulling Tool (page J23) and the Kodiak's S Pulling Tool (page J29).



REPINNING TOOL

ASSEMBLY DESCRIPTION

The Repinning Tool is used to put Shear Pins into Kodiak's Running Tools (page I1) and Pulling Tools (page J1).



S PULLING TOOL

ASSEMBLY DESCRIPTION

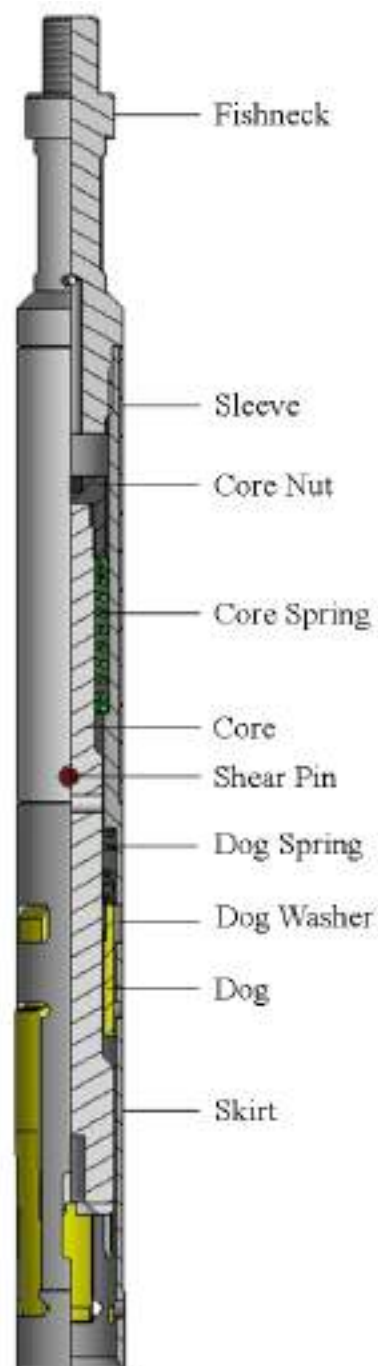
The Kodiak's S Pulling Tool is a shear down tool used to latch and pull tools that have external fishnecks. The S Pulling Tool is especially useful for running various equipment that land against a positive No-Go. The following Cores are available for the S Pulling Tool:

- *The B Core is very long Core, and offers a short reach.

- *The S Core is a medium length, and offers a medium reach.

- *The M Core is used primarily in Gas-Lift operations.

- *The J Core is also available upon special request.





S PULLING TOOL

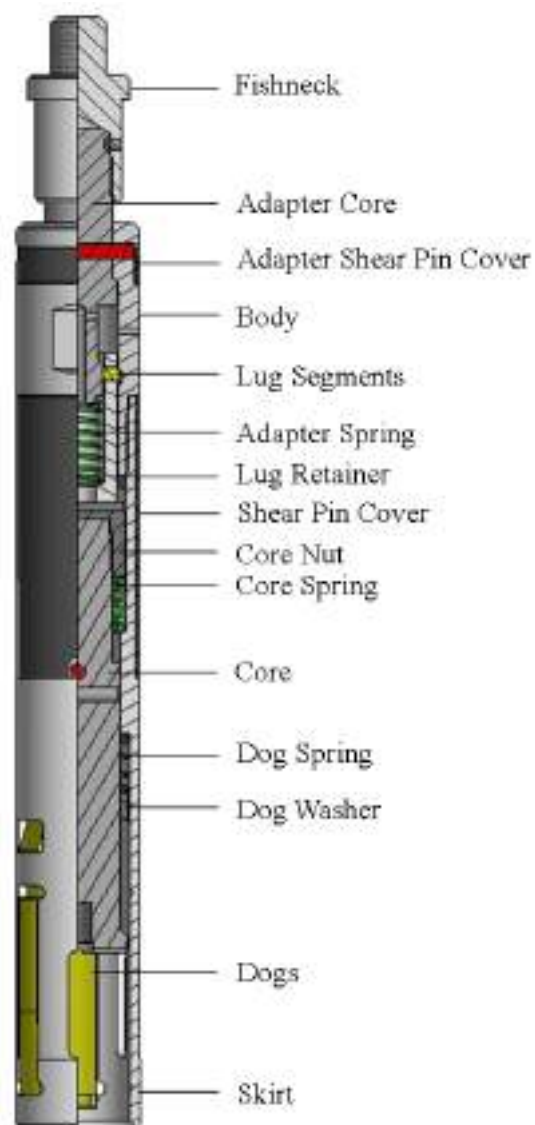
SPECIFICATIONS				
	1.000	1.250	1.500	2.000
Fishneck	0.683	1.000	1.188	1.375
Connections	5/8"-11	5/8"-11	15/16"-10	15/16"-10
B Core Reach	1.000	1.280	1.297	1.219
S Core Reach			1.780	2.031

SPECIFICATIONS				
	2.500	3.000	4.000	
Fishneck	1.375	2.313	2.313	
Connections	1-1/16"-10	1-1/16"-10	1-1/16"-10	
B Core Reach	1.281	1.500	1.500	
S Core Reach	2.000	2.210	2.210	

SSJ PULLING TOOL

ASSEMBLY DESCRIPTION

The SSJ Pulling Tool is able to release targeted assemblies by either jarring down on its Core or the Skirt. This is a flexible way for an operator to pull assemblies, because it means that an assembly can be pulled without having to manipulate the Cores. The SSJ Pulling Tool is primarily used to pull Kodiak's X Selective Test Tool (page O8).





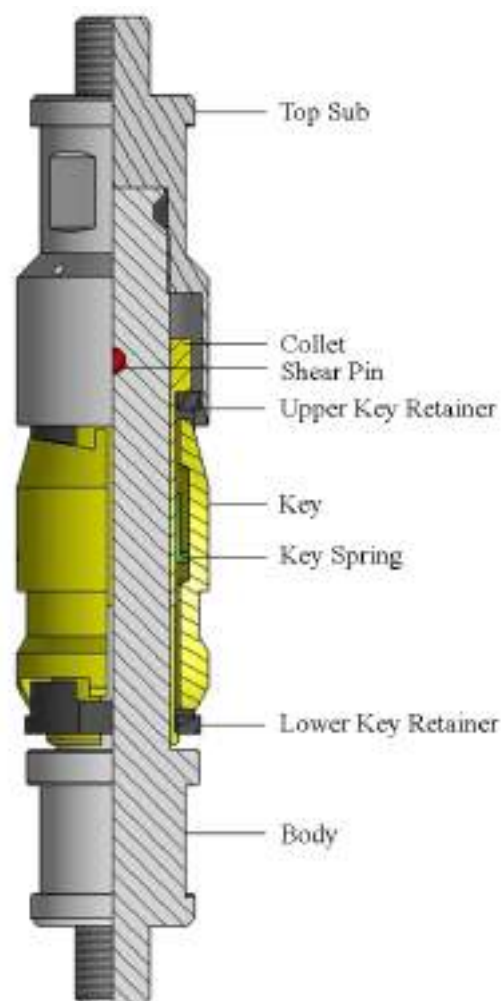
SSJ PULLING TOOL

SPECIFICATIONS			
	2.000	2.500	3.000
Fishneck	1.375	1.750	2.313
Connections	15/16"-10	15/16"-10	1-1/16"-10
Maximum O.D.	1.765	2.175	2.740

B SHIFTING TOOL

ASSEMBLY DESCRIPTION

The Kodiak's B Shifting Tool is designed to selectively locate and shift most sliding sleeves. The keys engage the mandrel's inner sleeve, and depending upon the direction the tool is run, the sleeve is shifted up or down. The B Shifting Tool is designed to release only after the sleeve reaches its fully open or closed position.





B SHIFTING TOOL

SPECIFICATIONS			
	1.500	1.625	1.710
Fishneck	1.188	1.188	1.188
Connections	15/16"-10	15/16"-10	15/16"-10

SPECIFICATIONS			
	1.781	1.875	2.125
Fishneck	1.375	1.375	1.375
Connections	15/16"-10	15/16"-10	15/16"-10

SPECIFICATIONS			
	2.188	2.313	2.562
Fishneck	1.750	1.750	1.750
Connections	15/16"-10	15/16"-10	15/16"-10

SPECIFICATIONS			
	2.750	2.813	3.313
Fishneck	2.313	2.313	2.313
Connections	1-1/16"-10	1-1/16"-10	1-1/16"-10

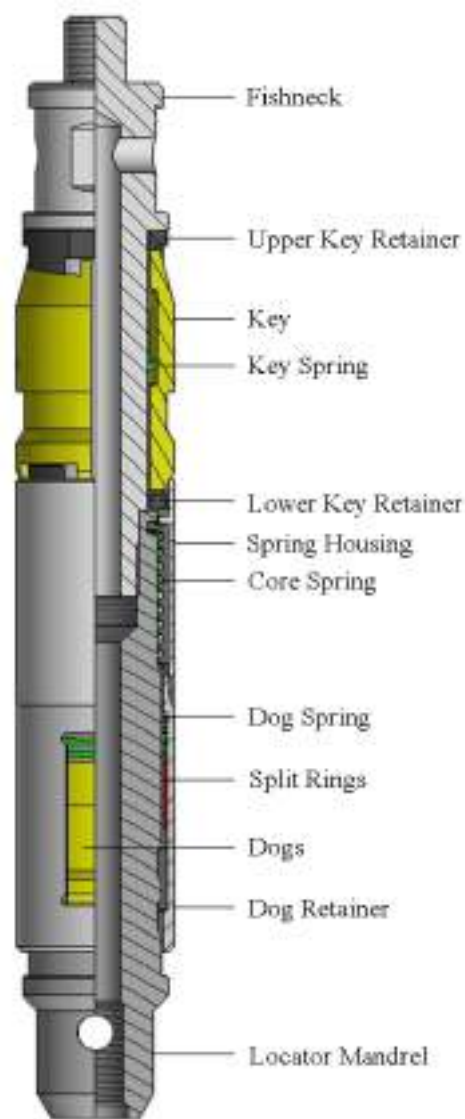
SPECIFICATIONS			
	3.437	3.688	3.813
Fishneck	2.313	3.125	3.125
Connections	1-1/16"-10	1-1/16"-10	1-1/16"-10

SPECIFICATIONS			
	4.313	4.562	
Fishneck	3.125	3.125	
Connections	1-1/16"-10	1-1/16"-10	

BO SHIFTING TOOL

ASSEMBLY DESCRIPTION

The Kodiak's BO Shifting Tool is designed to locate and shift sliding side doors to the down position. The tool is made selective by the lower half, which is designed to function like a Kodiak's X-Line Running Tool (page I31).





BO SHIFTING TOOL

SPECIFICATIONS				
	1.500	1.625	1.781	1.875
Fishneck	1.188	1.188	1.375	1.375
Connection	15/16"-10	15/16"-10	15/16"-10	15/16"-10

SPECIFICATIONS				
	2.125	2.188	2.313	2.562
Fishneck	1.750	1.750	1.750	1.750
Connection	15/16"-10	15/16"-10	15/16"-10	15/16"-10

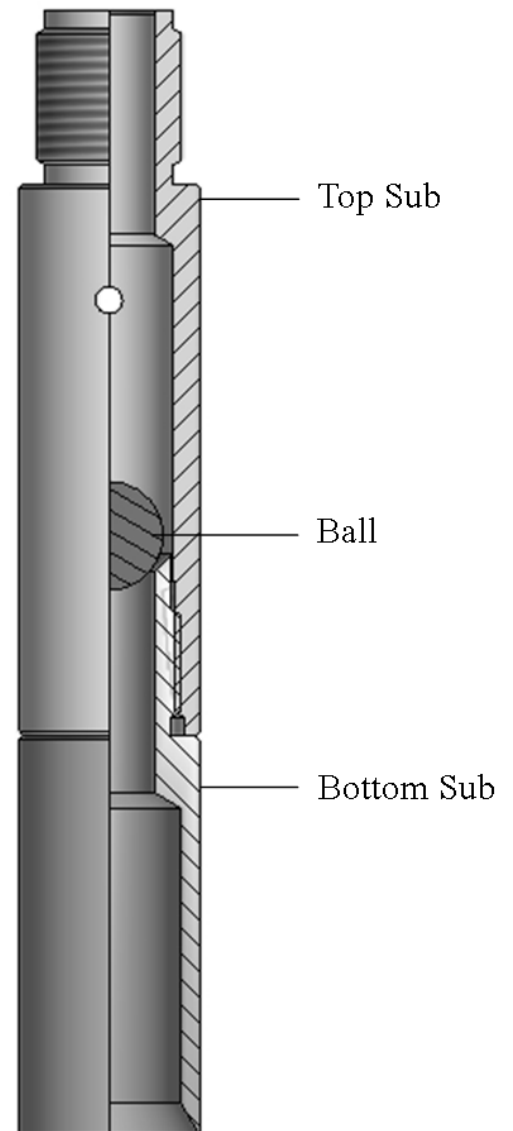
SPECIFICATIONS				
	2.750	2.813	3.437	3.688
Fishneck	2.313	2.313	2.313	2.313
Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10

SPECIFICATIONS				
	3.750	3.813	4.562	
Fishneck	2.313	2.313	3.125	
Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10	

2 PIECE BALL BOTTOM

ASSEMBLY DESCRIPTION

The 2 Piece Ball Bottom is an alternative to the normal style Ball Bottom used with traditional bailers. It can only be used on coarse thread bailers.





2 PIECE BALL BOTTOM

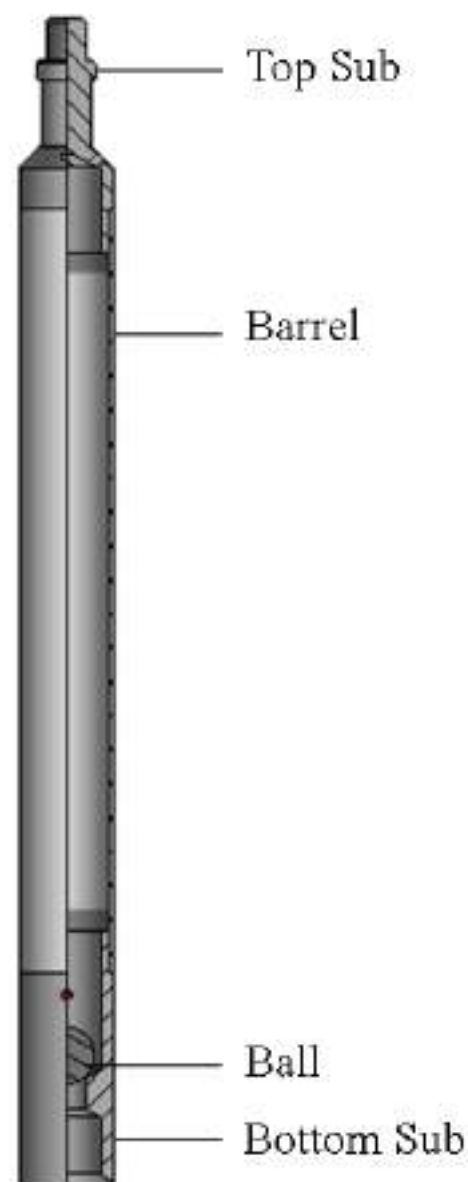
SPECIFICATIONS				
	1.000	1.250	1.500	1.625
Fishneck	1.000	1.188	1.375	1.375
Connection	5/8"-11	15/16"-10	15/16"-10	15/16"-10

SPECIFICATIONS				
	1.750	2.000	2.250	2.500
Fishneck	1.750	1.750	1.750	1.750
Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10

DRIVE-DOWN BAILER

ASSEMBLY DESCRIPTION

Drive-Down Bailers are simple tools consisting of a Top Sub, Barrel, and either a Ball Bottom or Flapper Bottom. They are used to bail mud and shale by being lowered into the shale, or debris. This fills the Barrel with the target debris. The Drive-Down Bailer is then pulled to extract the debris out of the well bore.





DRIVE-DOWN BAILER

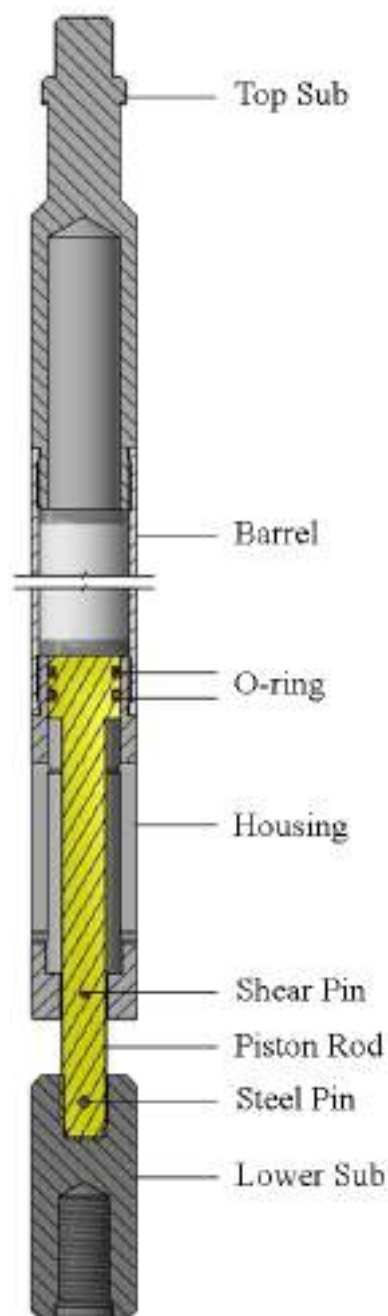
SPECIFICATIONS				
	1.000	1.250	1.500	1.625
Fishneck	1.000	1.188	1.375	1.375
Connection	5/8"-11	15/16"-10	15/16"-10	15/16"-10

SPECIFICATIONS				
	1.750	2.000	2.250	2.500
Fishneck	1.750	1.750	1.750	1.750
Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10

DUMP BAILER

ASSEMBLY DESCRIPTION

A Dump Bailer is used to place small amounts of cement slurry, or similar material in a well bore. The Dump Bailer holds the contents in the Barrel. When the Dump Bailer is jarred, the Shear Pin is sheared, which then turns a plunger. The plunger then shears a rupture disk and the barrel releases the contents into the well bore.





DUMP BAILER

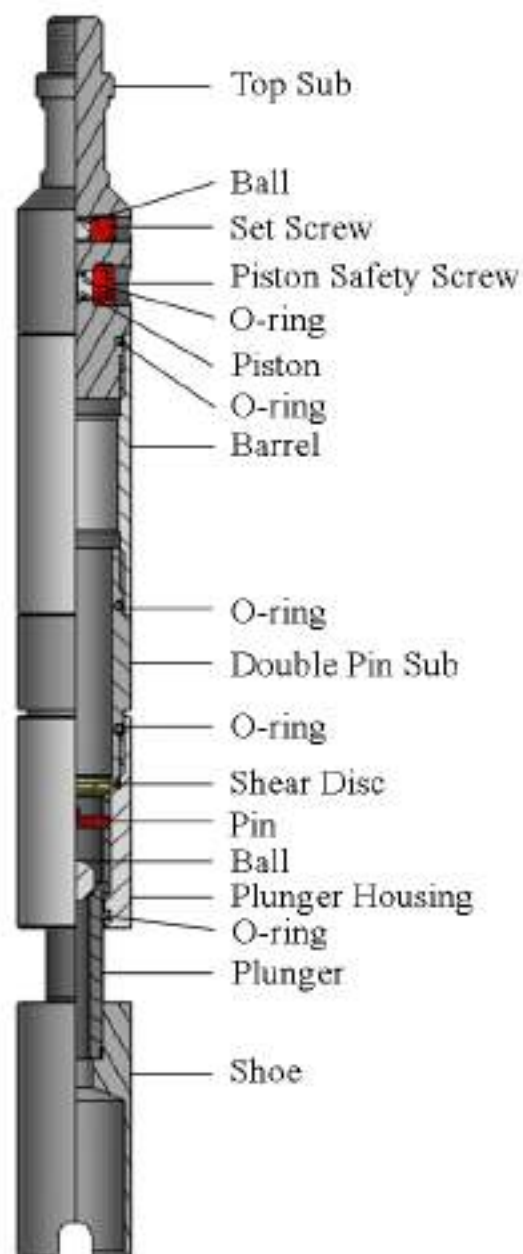
SPECIFICATIONS			
	1.625	1.750	2.250
Fishneck	1.375	1.750	1.750
Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10

SPECIFICATIONS			
	2.875	3.250	
Fishneck	1.750	2.313	
Connection	1-1/16"-10	1-1/16"-10	

HYDROSTATIC BAILER

ASSEMBLY DESCRIPTION

The Hydrostatic Bailer is designed to be used when a pump action bailer fails to remove the sand or debris surrounding a subsurface device. The Hydrostatic Bailer consists of a chamber that has been loaded and sealed at atmospheric pressure. When the bailer reaches the top of the sand, downward jarring shears a pin, causing bottom hole pressure to surge into the chamber, forcing the bailer piston upward. When pressure in the chamber equalizes the memory pressure gauge or other equipment, a ball check closes to retain the sand and debris in the chamber.





HYDROSTATIC BAILER

SPECIFICATIONS			
	1.250	1.375	1.500
Fishneck	1.188	1.188	1.375
Connection	15/16"-10	15/16"-10	15/16"-10

SPECIFICATIONS			
	1.625	1.750	2.000
Fishneck	1.375	1.375	1.375
Connection	15/16"-10	15/16"-10	15/16"-10

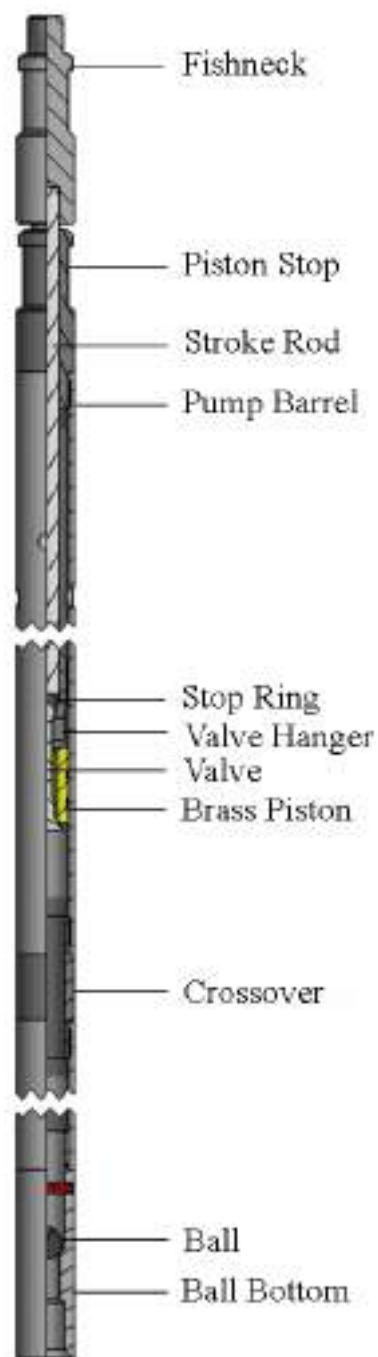
SPECIFICATIONS			
	2.188	2.500	2.750
Fishneck	1.375	1.750	1.750
Connection	15/16"-10	1-1/16"-10	1-1/16"-10

SPECIFICATIONS			
	3.000	4.000	
Fishneck	1.750	2.313	
Connection	1-1/16"-10	1-1/16"-10	

MAXWELL-STYLE BAILER

ASSEMBLY DESCRIPTION

The Maxwell-Style Bailer is a pump action bailer designed to remove debris and sand in the tubing string through using upward jarring motion. Kodiak's has different lengths of Pump Barrels as well as load barrels to suit different bailing needs. The Maxwell- Style Bailer utilizes a Brass Piston component to bail the debris and sand from the well bore.





MAXWELL-STYLE BAILER

SPECIFICATIONS				
	0.750	1.000	1.250	1.500
Fishneck	0.688	1.000	1.188	1.188
Connection	5/8"-11	5/8"-11	15/16"-10	15/16"-10

SPECIFICATIONS				
	1.625	1.750	2.000	2.250
Fishneck	1.375	1.375	1.375	1.375
Connection	15/16"-10	15/16"-10	15/16"-10	15/16"-10

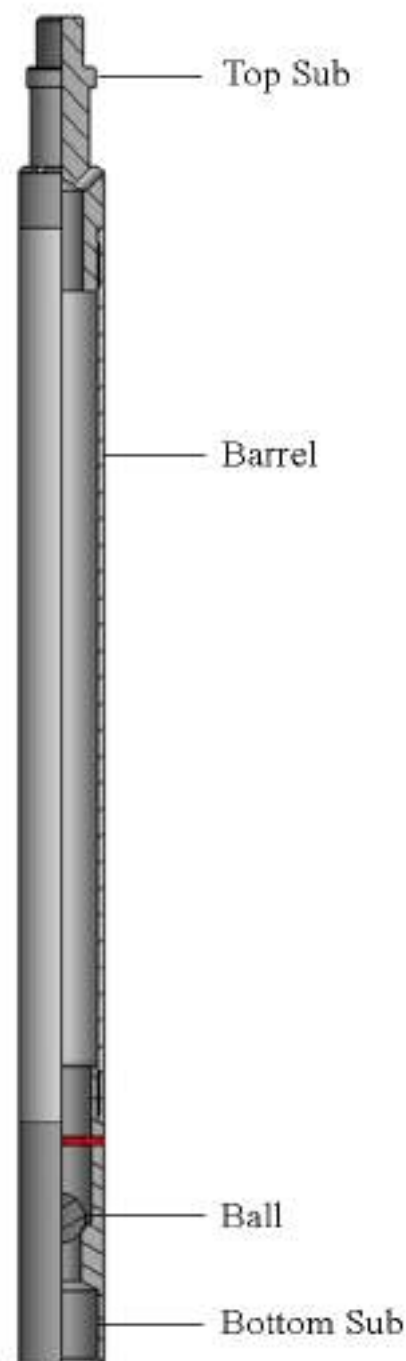
SPECIFICATIONS				
	2.500	2.625	2.750	3.000
Fishneck	1.750	1.750	1.750	1.750
Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10

SPECIFICATIONS				
	3.125	3.250	3.750	
Fishneck	1.750	1.750	1.750	
Connection	1-1/16"-10	1-1/16"-10	1-1/16"-10	

SAMPLE BAILER

ASSEMBLY DESCRIPTION

The Sample Bailer functions the same way as a Drive-Down Bailer (page L4) with a much shorter barrel (typically 18"). It is commonly attached to a Tubing End Locator (page L16) to take samples from the well bottom. It is able to retrieve large samples by opening the Flapper or Ball Bottom sub, allowing the mixture to enter the barrel. The Sample Bailer then closes as it is drawn back to the surface.





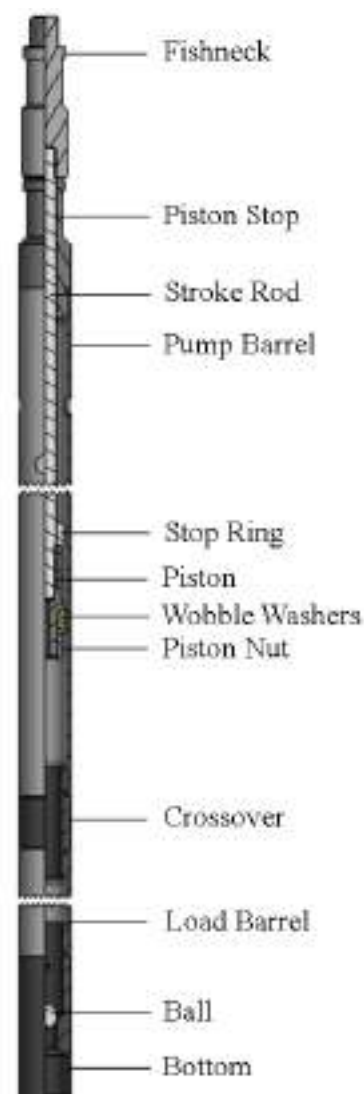
SAMPLE BAILER

SPECIFICATIONS				
	1.000	1.250	1.500	1.750
Fishneck	1.000	1.188	1.188	1.375
Connection	5/8"-11	15/16"-10	15/16"-10	15/16"-10

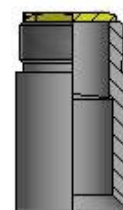
SAND BAILER / PUMP BAILER

ASSEMBLY DESCRIPTION

The Sand Bailer / Pump Bailer is a 2 piece pump action bailer, designed to remove sand and small debris in the tubing string through the upward stroking motion of the pump section. Debris is sucked into the Load Barrel as the assembly is jarred up. The main distinguishing component of the Sand Bailer / Pump Bailer is its Wobble Washer.



Chisel Bottom



Flapper Bottom



SAND BAILER / PUMP BAILER

SPECIFICATIONS				
	1.000	1.250	1.375	1.500
Fishneck	0.875	1.188	1.188	1.188
Connection	5/8"-11	15/16"-10	15/16"-10	15/16"-10

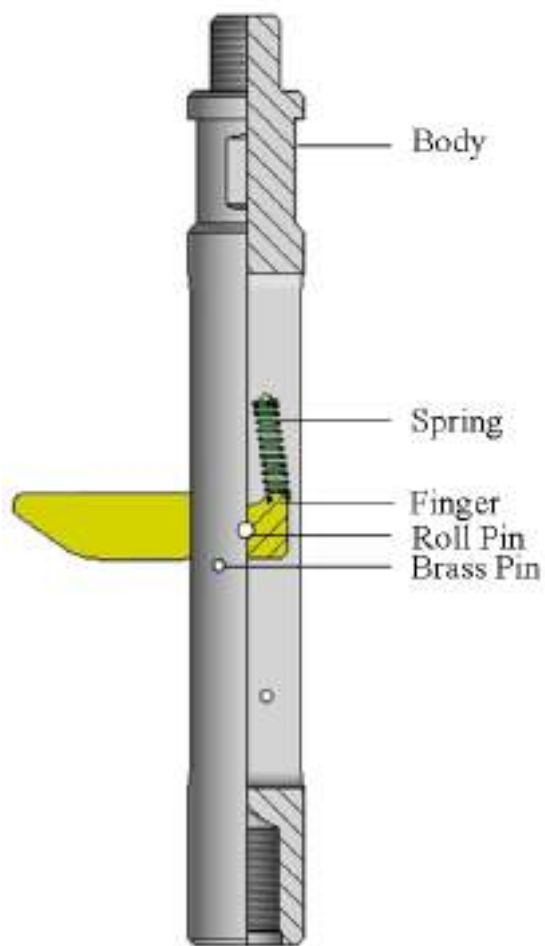
SPECIFICATIONS				
	1.625	1.750	2.000	2.125
Fishneck	1.375	1.375	1.375	1.375
Connection	15/16"-10	15/16"-10	15/16"-10	15/16"-10

SPECIFICATIONS				
	2.250	2.500	3.000	3.250
Fishneck	1.375	1.750	1.750	1.750
Connection	15/16"-10	1-1/16"-10	1-1/16"-10	1-1/16"-10

TUBING END LOCATOR

ASSEMBLY DESCRIPTION

The Tubing End Locator is used to determine the depth of the tubing using a spring-loaded Finger. The finger catches the end of the tubing when pulled upward, registering as a reading on the weight indicator. Shear the pin by jarring upward on the assembly, and the finger should retract back inside the tool so that retrieval is possible.



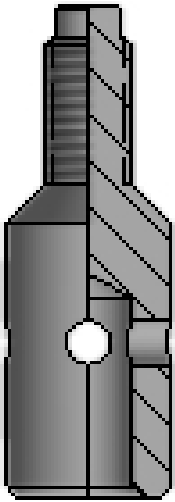


TUBING END LOCATOR

SPECIFICATIONS			
	1.250	1.500	1.750
Fishneck	1.188	1.188	1.375
Connections	15/16"-10	15/16"-10	15/16"-10
Length	10.625	10.625	10.438
Shear Pin	3/16" X 1-1/4"	3/16" X 1-1/4"	3/16" X 1-3/4"

SPECIFICATIONS			
	2.000	2.500	3.000
Fishneck	1.375	1.375	1.375
Connections	15/16"-10	15/16"-10	15/16"-10
Length	10.438	10.438	10.438
Shear Pin	3/16" X 1-3/4"	3/16" X 1-3/4"	3/16" X 1-3/4"

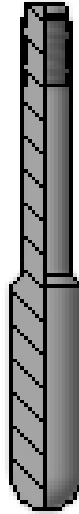
PRONG SPECIFICATIONS



Kodiak's DK
Running Prong



Kodiak's DK
Pulling Prong



Kodiak's
P Prong



Kodiak's
R/
Kodiak's
X
Running
Prong



Kodiak's
R/
Kodiak's
X
Pulling
Prong



PRONG SPECIFICATIONS

SPECIFICATIONS						
Nominal Size	Mandrel	Equalizing Sub	Prong	O.D.	Length	Thread
2.000	S	B	P-100	1/2"	21-3/8"	1/2"-13
		D	P-100	1/2"	21-3/8"	1/2"-13
		H	P-479	21/32"	21-3/8"	1/2"-13
	T	B	P-100	1/2"	21-3/8"	1/2"-13
		D	P-100	1/2"	21-3/8"	1/2"-13
		H	P-479	21/32"	21-3/8"	1/2"-13
	B	B	P-102	1/2"	20-3/4"	1/2"-13
		D	P-102	1/2"	20-3/4"	1/2"-13
		H	P-474	21/32"	19-3/16"	1/2"-13
	W	B	P-501	1/2"	22-7/8"	1/2"-13
		D	P-501	1/2"	22-7/8"	1/2"-13
		H	P-474	21/32"	19-3/16"	1/2"-13
	N	B	P-146	1/2"	16-7/8"	1/2"-13
		D	P-146	1/2"	16-7/8"	1/2"-13
		H	P-479	1/2"	16-7/8"	1/2"-13
	X	B Running	P-100	1/2"	9-5/8"	1/2"-13
		D Running	P-100	1/2"	9-5/8"	1/2"-13
		B Pulling	P-100	1/2"	16-1/2"	1/2"-13
		D Pulling	P-100	1/2"	16-1/2"	1/2"-13
		H Running	P-479	21/32"	9-5/8"	1/2"-13
		H Pulling	P-479	21/32"	16-1/2"	1/2"-13
	D-Collar Lock	B	P-100	1/2"	17-1/2"	1/2"-13
		D	P-100	1/2"	17-1/2"	1/2"-13
		H	P-479	21/32"	17-1/2"	1/2"-13



PRONG SPECIFICATIONS

SPECIFICATIONS						
Nominal Size	Mandrel	Equalizing Sub	Prong	O.D.	Length	Thread
2.500	S	B	P-242	11/16"	22-1/2"	1/2"-13
		D	P-242	11/16"	22-1/2"	1/2"-13
		H	P-145	27/32"	22-1/2"	1/2"-13
	T	B	P-242	11/16"	22-1/2"	1/2"-13
		D	P-242	11/16"	22-1/2"	1/2"-13
		H	P-145	27/32"	22-1/2"	1/2"-13
	B	B	P-104	11/16"	21-5/8"	1/2"-13
		D	P-104	11/16"	21-5/8"	1/2"-13
		H	P-150	27/32"	20-3/8"	1/2"-13
	W	B	P-242	11/16"	21-1/2"	1/2"-13
		D	P-242	11/16"	21-1/2"	1/2"-13
		H	P-480	27/32"	21-3/4"	1/2"-13
	N	B	P-610	11/16"	15-1/4"	1/2"-13
		D	P-610	11/16"	15-1/4"	1/2"-13
		H	P-400	27/32"	14-3/32"	1/2"-13
	X	B Running	P-242	11/16"	7-1/2"	5/8"-11
		D Running	P-242	11/16"	7-1/2"	5/8"-11
		B Pulling	P-242	11/16"	17-1/2"	5/8"-11
		D Pulling	P-242	11/16"	17-1/2"	5/8"-11
		H Running	P-480	27/32"	7-1/2"	5/8"-11
		H Pulling	P-480	27/32"	17-1/2"	5/8"-11
	D-Collar Lock	B	P-242	11/16"	20"	1/2"-13
		D	P-242	11/16"	20"	1/2"-13
		H	P-480	27/32"	20"	1/2"-13



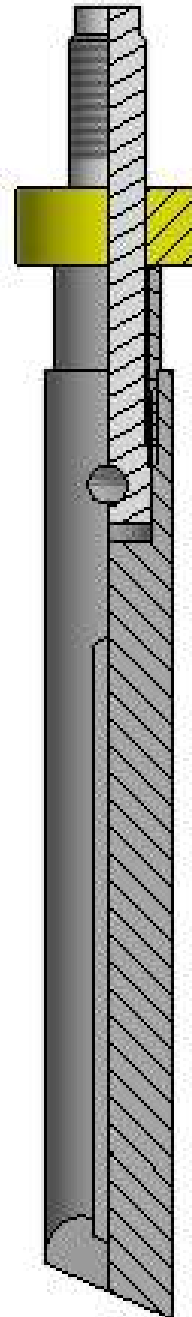
PRONG SPECIFICATIONS

SPECIFICATIONS						
Nominal Size	Mandrel	Equalizing Sub	Prong	O.D.	Length	Thread
3.000	S	B	P-141	1-1/8"	23-3/8"	5/8"-11
		D	P-141	1-1/8"	23-3/8"	5/8"-11
		H	P-481	1-15/32"	22-3/8"	5/8"-11
	T	B	P-141	1-1/8"	23-3/8"	5/8"-11
		D	P-141	1-1/8"	23-3/8"	5/8"-11
		H	P-481	1-15/32"	22-3/8"	5/8"-11
	B	B	P-148	1-1/8"	21-13/16"	5/8"-11
		D	P-148	1-1/8"	21-13/16"	5/8"-11
		H	P-476	1-1/8"	21-13/16"	5/8"-11
	W	B	P-141	1-1/8"	23-3/8"	5/8"-11
		D	P-141	1-1/8"	23-3/8"	5/8"-11
		H	P-481	1-15/32"	23-3/8"	5/8"-11
	N	B	P-141	1-1/8"	15"	5/8"-11
		D	P-141	1-1/8"	15"	5/8"-11
		H	P-572	1-15/32"	15"	5/8"-11
	X	B Running	P-141	1-1/8"	8"	3/4"-10
		D Running	P-141	1-1/8"	8"	3/4"-10
		B Pulling	P-141	1-1/8"	19"	5/8"-11
		D Pulling	P-141	1-1/8"	19"	5/8"-11
		H Running	P-572	1-15/32"	8"	3/4"-10
		H Pulling	P-572	1-15/32"	19"	5/8"-11
	D-Collar Lock	B	P-141	1-1/8"	19"	5/8"-11
		D	P-141	1-1/8"	19"	5/8"-11
		H	P-572	1-15/32"	19"	5/8"-11

A PROBE

ASSEMBLY DESCRIPTION

The A Probe is a wireline manipulated device that is used to retract the four locking dogs on a Kodiak's S Lock (page N35) in order to remove it from a Kodiak's S Landing Nipple.





A PROBE

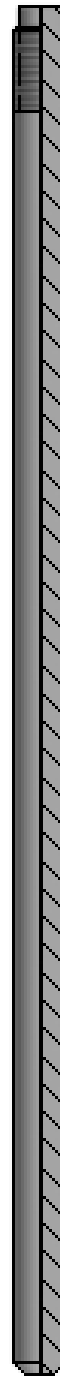
SPECIFICATIONS			
	1.500	2.000	2.500
Pin Connection	3/8"-16	1/2"-13	1/2"-13
Bottom Connection	7/16"-14	1/2"-13	1/2"-13
Maximum O.D.	0.724	0.832	1.137
Length	7.469	9.063	9.063

SPECIFICATIONS			
	3.000	4.500	
Pin Connection	5/8"-11	1-1/4"-12	
Bottom Connection	5/8"-11	5/8"-11	
Maximum O.D.	1.387	2.031	
Length	10.656	12.438	

A PRONG

ASSEMBLY DESCRIPTION

The A Prong is used to set and pull various Baker Style Equipment (page N1), especially flow control equipment. Please specify the length required when ordering the A Prong, as Kodiak's manufactures A Prongs to meet customer requirements.





A PRONG

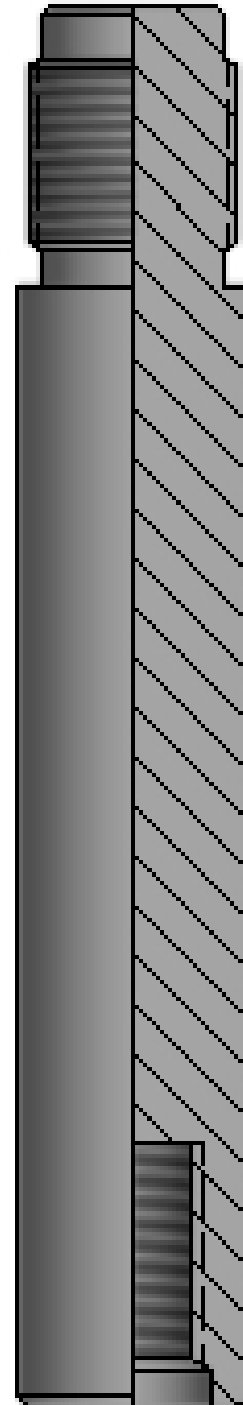
SPECIFICATIONS			
	2.000	2.500	3.000
Connection	1/2"-13	1/2"-13	5/8"-11
Maximum O.D.	0.500	0.500	0.625

A SHANK

ASSEMBLY DESCRIPTION

The A Shank can be run by the C-1 Running Tool (page I5) or any other internally threaded running tool. It is used to collapse the downward facing dogs on selective Kodiak's S Locks (page N35), Kodiak's W Locks (page N37), and Kodiak's Z Locks (page N40).

The A Shank may also be used as a connection between the running tool and an A Prong (page N4).





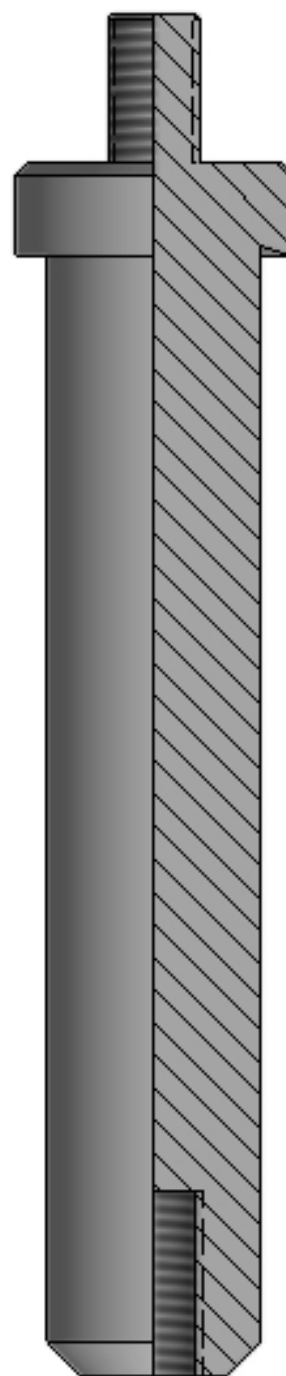
A SHANK

SPECIFICATIONS				
	1.500	2.000	2.500	3.000
Pin Connection	5/8"-11	3/4"-16	1"-14	1"-14
Bottom Connection	7/16"-14	1/2"-13	1/2"-13	5/8"-11
Maximum O.D.	0.698	0.832	1.161	1.411
Length	4.750	5.000	4.688	5.313

B PROBE

ASSEMBLY DESCRIPTION

The B Probe is a wireline manipulated device that is used to close the two locking dogs on a Kodiak's W Lock (page N37) or Kodiak's Z Lock (page N40) in order to remove it from the Landing Nipple (page B1).





B PROBE

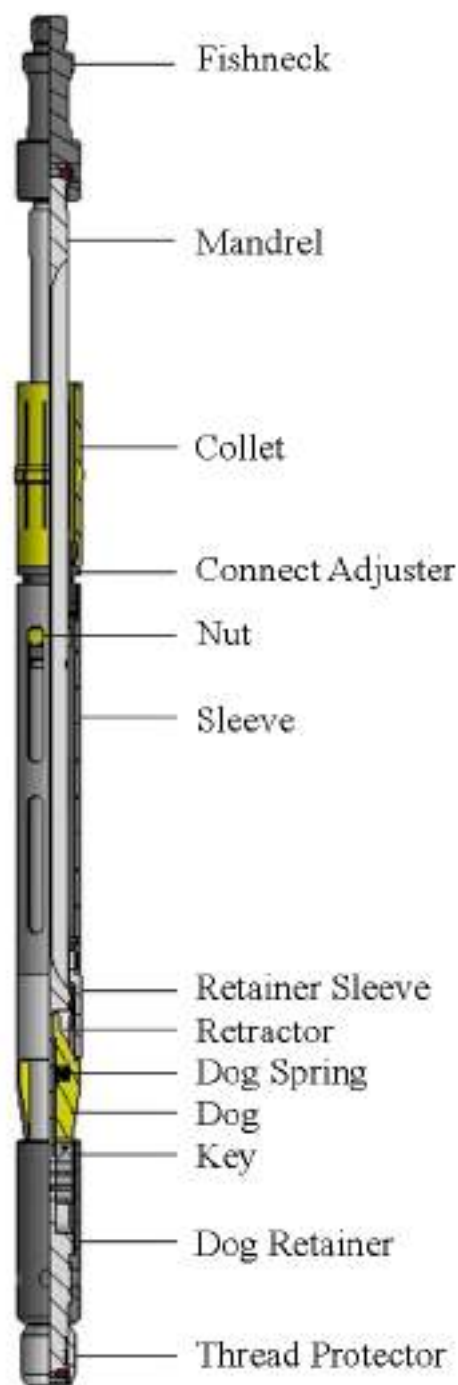
SPECIFICATIONS			
	1.250	1.500	2.000
Pin Connection	3/8"-16	1/2"-13	1/2"-13
Bottom Connection	1/4"-20	7/16"-14	1/2"-13
Maximum O.D.	0.496	0.698	0.832
Length	6.281	6.281	7.094

SPECIFICATIONS			
	2.500	3.000	4.500
Pin Connection	1/2"-13	5/8"-11	1-1/4"-12
Bottom Thread	1/2"-13	5/8"-11	5/8"-11
Maximum O.D.	1.137	1.387	2.031
Length	7.219	7.750	8.500

D-2 SHIFTING TOOL

ASSEMBLY DESCRIPTION

The D-2 Shifting Tool is used to provide a safe, selective, and controlled method of opening and closing TL Circulating Sleeves.





D-2 SHIFTING TOOL

SPECIFICATIONS			
	1.780	1.810	1.870
Fishneck	1.375	1.375	1.375
Collet Diameter	1.807	1.843	1.906
Length	38.250	38.250	38.250

SPECIFICATIONS			
	2.250	2.310	2.750
Fishneck	1.750	1.750	2.313
Collet Diameter	2.281	2.343	2.781
Length	39.375	39.375	39.437

SPECIFICATIONS			
	2.810	3.680	3.810
Fishneck	2.313	2.313	2.313
Collet Diameter	2.843	3.743	3.867
Length	39.437	43.000	43.000

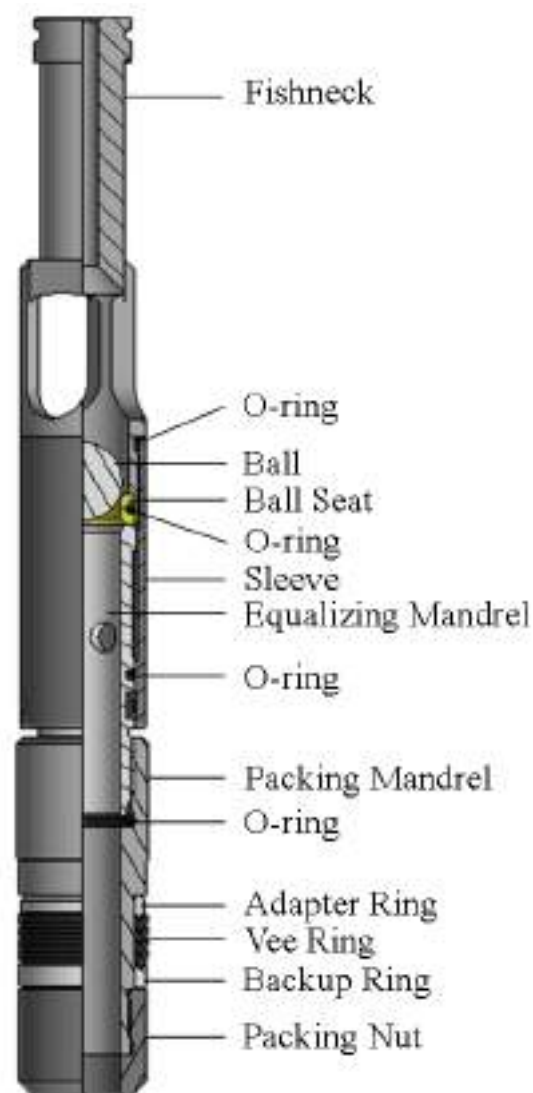
FB-2 EQUALIZING CHECK VALVE

ASSEMBLY DESCRIPTION

The FB-2 Equalizing Check Valve prevents fluid flow from above the tool, yet still allows fluid flow from below the tool. The FB-2 Equalizing Check Valve will sit in the No-Go of a TF profile, which prevents downward movement.

A Kodiak's S Pulling Tool (page J29) or a JD Pulling Tool (page J13) can be used to pull and set the FB-2 Equalizing Check Valve.

A Kodiak's C-1 Running Tool (page I4) or a JD Pulling Tool (page J13) can be used to run and set the tool.





FB-2 EQUALIZING CHECK VALVE

SPECIFICATIONS				
	1.780	1.810	1.870	2.250
Fishneck	1.375	1.375	1.375	1.750
No-Go O.D.	1.802	1.865	1.906	2.302
Length	15.680	15.680	15.680	17.370
Running Tool	C1RT-02000-01	C1RT-02000-01	C1RT-02000-01	C1RT-02500-01
Pulling Tool	SBPT-02000-01 JDCBT-02000-01	SBPT-02000-01 JDCBT-02000-01	SBPT-02000-01 JDCBT-02000-01	SBPT-02500-01 JDCBT-02500-01

SPECIFICATIONS				
	2.310	2.560	2.750	2.810
Fishneck	1.750	2.313	2.313	2.313
No-Go O.D.	2.365	2.550	2.802	2.865
Length	17.370	18.375	18.810	18.810
Running Tool	C1RT-02500-01	C1RT-02500-01	C1RT-03000-01	C1RT-03000-01
Pulling Tool	SBPT-02500-01 JDCBT-02500-01	SBPT-02500-01 JDCBT-02500-01	SBPT-03000-01 JDCBT-03000-01	SBPT-03000-01 JDCBT-03000-01

SPECIFICATIONS				
	3.688	3.750	3.813	4.125
Fishneck	3.125	3.125	3.125	3.125
No-Go O.D.	3.740	3.802	3.875	4.187
Length	18.750	18.750	18.750	17.430
Running Tool	C1RT-04000-01	C1RT-04000-01	C1RT-04000-01	C1RT-04000-01
Pulling Tool	SBPT-04000-01 JDCBT-04000-01	SBPT-04000-01 JDCBT-04000-01	SBPT-04000-01 JDCBT-04000-01	SBPT-04000-01 JDCBT-04000-01

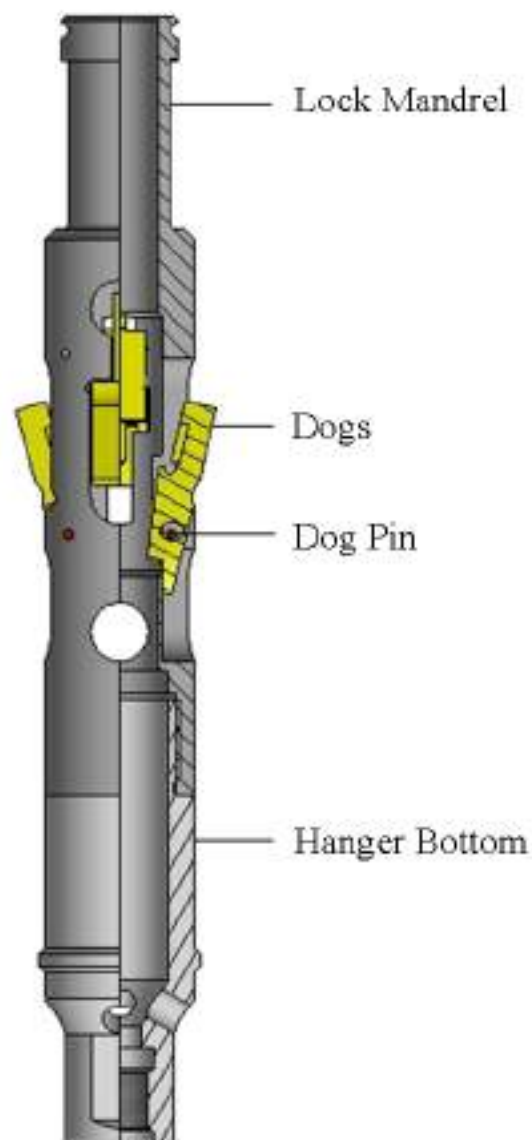
FSB BOMB HANGER

ASSEMBLY DESCRIPTION

The FSB Bomb Hanger performs the same functions as the FWB Bomb Hanger, utilizing a Kodiak's S Lock (page N35).

A Kodiak's S Pulling Tool (page J29) or a JD Pulling Tool (page J13) can be used to pull and set the FSB Bomb Hanger.

A Kodiak's C-1 Running Tool (page I4) or a JD Pulling Tool (page J13) can be used to run and set the tool.





FSB BOMB HANGER

SPECIFICATIONS				
	1.780	1.810	1.875	2.250
Fishneck	1.375	1.375	1.375	1.750
Maximum O.D.	1.771	1.802	1.865	2.240
Length	13.136	13.136	13.136	14.207
Running Tool	C1RT-02000-01	C1RT-02000-01	C1RT-02000-01	C1RT-02500-01
Pulling Tool	SBPT-02000-01 JDCBT-02000-01	SBPT-02000-01 JDCBT-02000-01	SBPT-02000-01 JDCBT-02000-01	SBPT-02500-01 JDCBT-02500-01

SPECIFICATIONS				
	2.310	2.750	2.810	
Fishneck	1.750	2.313	2.313	
Maximum O.D.	2.302	2.740	2.802	
Length	14.207	14.627	14.627	
Running Tool	C1RT-02500-01	C1RT-03000-01	C1RT-03000-01	
Pulling Tool	SBPT-02500-01 JDCBT-02500-01	SBPT-03000-01 JDCBT-03000-01	SBPT-03000-01 JDCBT-03000-01	

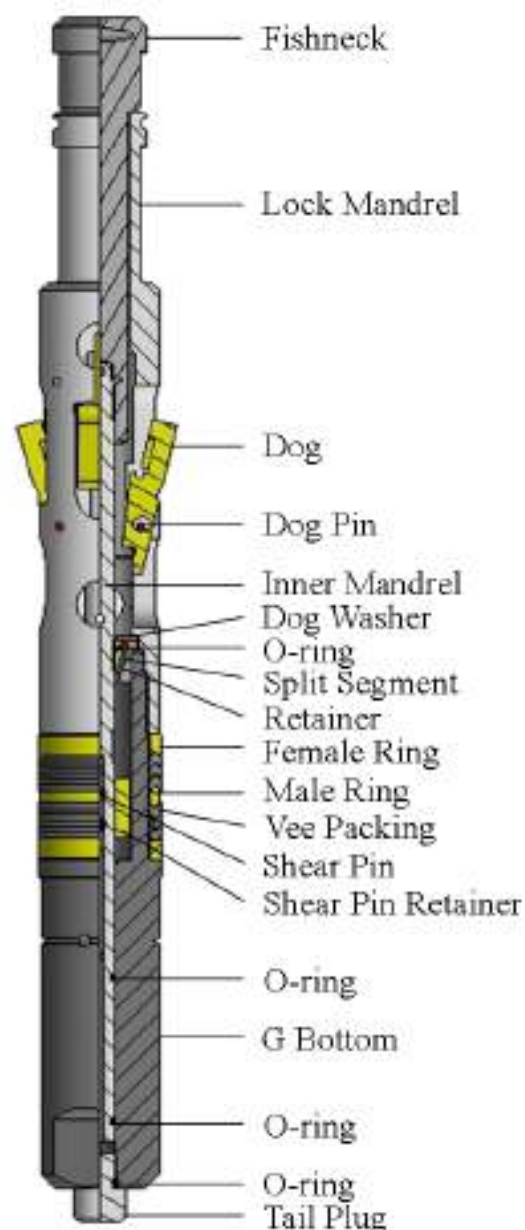
FSG BLANKING PLUG

ASSEMBLY DESCRIPTION

The FSG Blanking Plug allows fluid to by-pass through the side ports when running in the well. It contains 2 sets of Dogs, one set in the upward position, and one set in the downward position, to lock in place against pressure.

A Kodiak's S Pulling Tool (page J29) or a JD Pulling Tool (page J13) can be used to pull and set the FSG Blanking Plug.

A Kodiak's C-1 Running Tool (page I4) or a JD Pulling Tool (page J13) can be used to run and set the tool.





FSG BLANKING PLUG

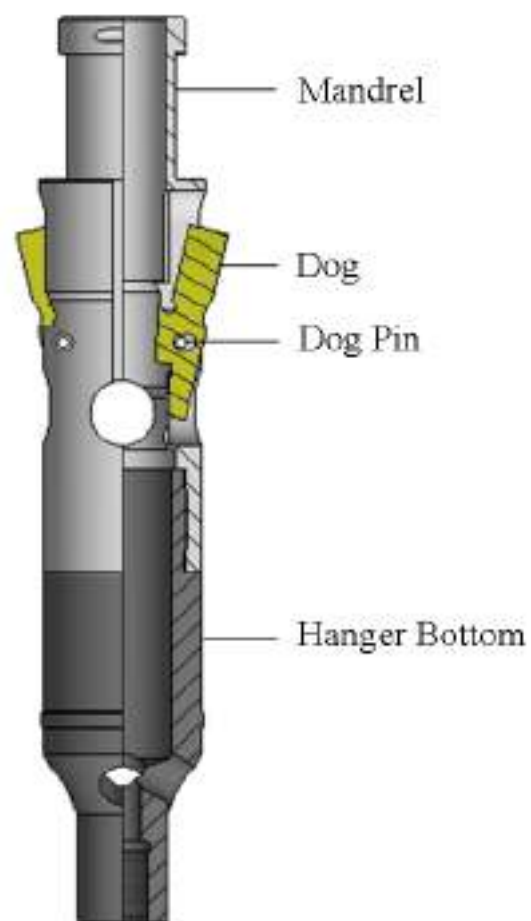
SPECIFICATIONS				
	1.500	1.780	1.810	1.870
Fishneck	1.188	1.375	1.375	1.375
Maximum O.D.	1.490	1.771	1.802	1.865
Length	14.600	17.220	17.220	17.220
Running Tool	C1RT-01500-01	C1RT-02000-01	C1RT-02000-01	C1RT-02000-01
Pulling Tool	SBPT-01500-01	SBPT-02000-01	SBPT-02000-01	SBPT-02000-01
Pulling Prong	BBPO-01500-01	BBPO-02000-01	BBPO-02000-01	BBPO-02000-01

SPECIFICATIONS				
	2.250	2.310	2.750	2.810
Fishneck	1.750	1.750	2.313	2.313
Maximum O.D.	2.240	2.302	2.740	2.802
Length	17.759	17.759	18.906	18.906
Running Tool	C1RT-02500-01	C1RT-02500-01	C1RT-03000-01	C1RT-03000-01
Pulling Tool	SBPT-02500-01	SBPT-02500-01	SBPT-03000-01	SBPT-03000-01
Pulling Prong	BBPO-02500-01	BBPO-02500-01	BBPO-03000-01	BBPO-03000-01

FWB BOMB HANGER

ASSEMBLY DESCRIPTION

The FWB Bomb Hanger is used to land and lock downhole measuring instruments in TF Profiles.





FWB BOMB HANGER

SPECIFICATIONS				
	1.500	1.780	1.810	1.870
Fishneck	1.188	1.375	1.375	1.375
No-Go O.D.	1.490	1.802	1.865	1.906
Length	11.516	11.516	11.516	11.516
Running Tool	C1RT-01500-01	C1RT-02000-01	C1RT-02000-01	C1RT-02000-01
Pulling Tool	SBPT-01500-01	SBPT-02000-01	SBPT-02000-01	SBPT-02000-01
Pulling Prong	BBPO-01500-04	BBPO-02000-04	BBPO-02000-04	BBPO-02000-04

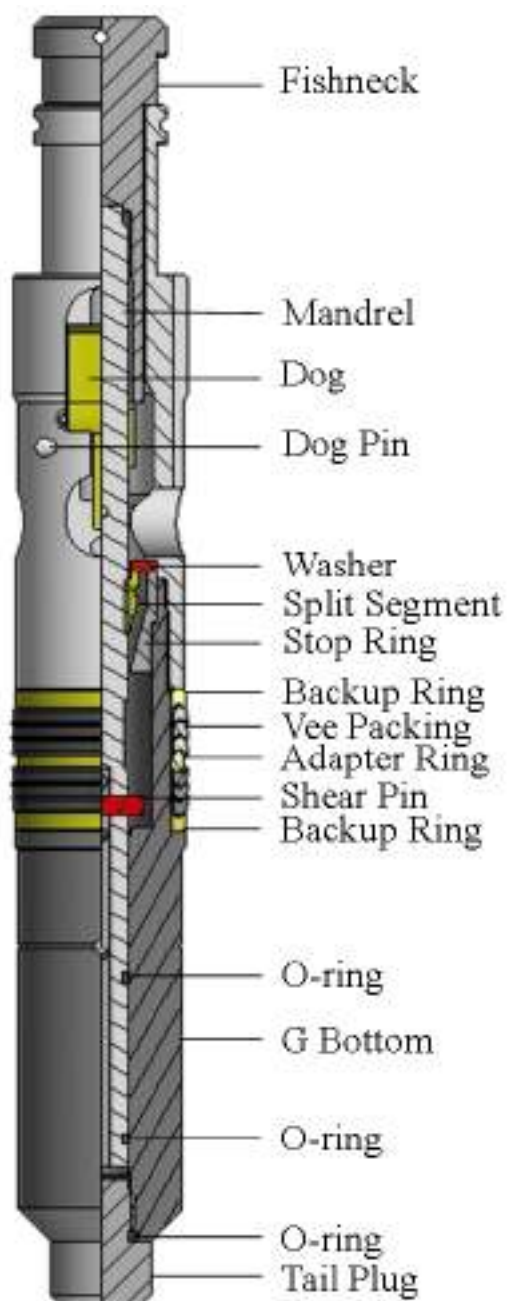
SPECIFICATIONS				
	2.250	2.310	2.560	2.750
Fishneck	1.750	1.750	1.750	2.313
No-Go O.D.	2.302	2.365	2.625	2.802
Length	12.517	12.517	13.320	12.407
Running Tool	C1RT-02500-01	C1RT-02500-01	C1RT-02500-01	C1RT-03000-01
Pulling Tool	SBPT-02500-01	SBPT-02500-01	SBPT-02500-01	SBPT-03000-01
Pulling Prong	BBPO-02000-04	BBPO-02500-04	BBPO-02560-04	BBPO-03000-04

SPECIFICATIONS				
	2.810	3.688	3.750	3.810
Fishneck	2.313	3.125	3.125	3.125
No-Go O.D.	2.865	3.740	3.802	3.864
Length	12.407	14.102	14.102	14.102
Running Tool	C1RT-03000-01	C1RT-04000-01	C1RT-04000-01	C1RT-04000-01
Pulling Tool	SBPT-03000-01	SBPT-04000-01	SBPT-04000-01	SBPT-04000-01
Pulling Prong	BBPO-03000-04	BBPO-04000-04	BBPO-04000-04	BBPO-04000-04

FWG BLANKING PLUG

ASSEMBLY DESCRIPTION

The FWG Blanking Plug will be set and locked in the F Profile. Once it has been properly locked it will allow fluid to bypass through its side ports. This will allow pressure to be held in either direction. The FWG Blanking Plug can be equalized and pulled with standard wireline tools.





FWG BLANKING PLUG

SPECIFICATIONS				
	1.430	1.500	1.560	1.620
Fishneck	1.188	1.188	1.188	1.188
No-Go O.D.	1.490	1.550	1.615	1.675
Lock O.D.	1.375	1.375	1.375	1.375
Length	14.690	14.500	14.500	15.600
Running Tool	C1RT-01500-01	C1RT-01500-01	C1RT-01500-01	C1RT-01500-01
Pulling Tool	SBPT-01500-01	SBPT-01500-01	SBPT-01500-01	SBPT-01500-01
Pulling Prong	BBPO-01500-04	BBPO-01500-04	BBPO-01500-04	BBPO-01500-04

SPECIFICATIONS				
	1.780	1.810	1.870	2.250
Fishneck	1.375	1.375	1.375	1.750
No-Go O.D.	1.865	1.865	1.906	2.302
Lock O.D.	1.703	1.703	1.703	2.156
Length	15.600	15.600	15.600	16.060
Running Tool	C1RT-02000-01	C1RT-02000-01	C1RT-02000-01	C1RT-02500-01
Pulling Tool	SBPT-02000-01	SBPT-02000-01	SBPT-02000-01	SBPT-02500-01
Pulling Prong	BBPO-02000-04	BBPO-02000-04	BBPO-02000-04	BBPO-02000-04



FWG BLANKING PLUG

SPECIFICATIONS				
	2.310	2.560	2.750	2.810
Fishneck	1.750	1.750	2.313	2.313
No-Go O.D.	2.365	2.625	2.802	2.865
Lock O.D.	2.156	2.437	2.656	2.656
Length	16.060	16.600	17.710	17.710
Running Tool	C1RT-02500-01	C1RT-02500-01	C1RT-03000-01	C1RT-03000-01
Pulling Tool	SBPT-02500-01	SBPT-02500-01	SBPT-03000-01	SBPT-03000-01
Pulling Prong	BBPO-02500-04	BBPO-02500-04	BBPO-03000-04	BBPO-03000-04

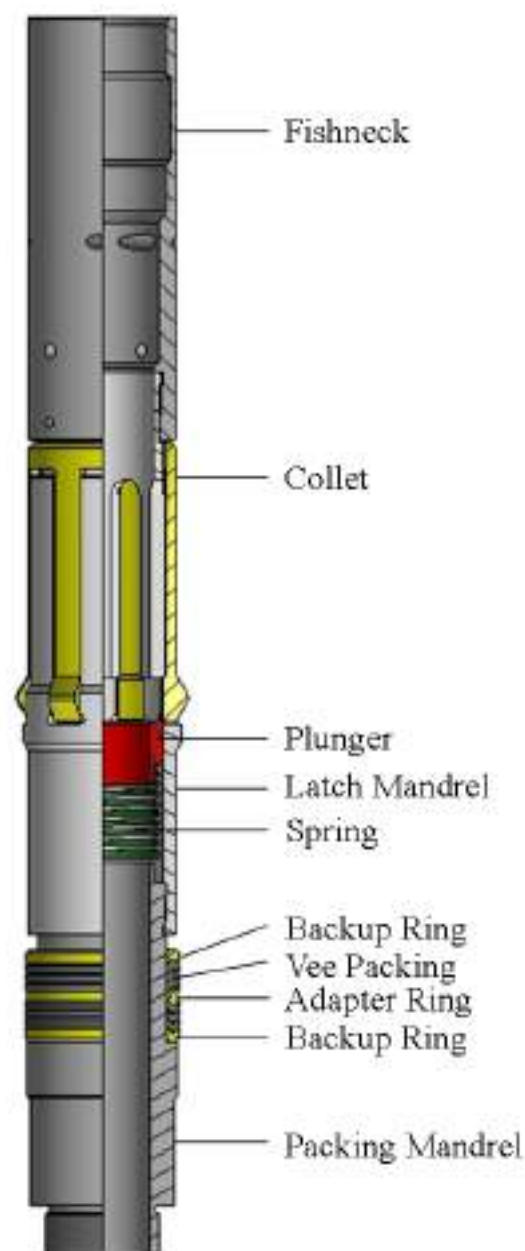
SPECIFICATIONS				
	3.688	3.750	3.810	
Fishneck	3.125	3.125	3.125	
No-Go O.D.	3.740	3.802	3.862	
Lock O.D.	2.750	2.750	2.78	
Length	19.250	19.250	19.250	
Running Tool	C1RT-04000-01	C1RT-04000-01	C1RT-04000-01	
Pulling Tool	SBPT-04000-01	SBPT-04000-01	SBPT-04000-01	
Pulling Prong	BBPO-04000-04	BBPO-04000-04	BBPO-04000-04	

M / F LOCK

ASSEMBLY DESCRIPTION

The F Lock with packing gland is a top No-Go lock used in TF type profiles. The F Lock has a No-Go shoulder to prevent downward movement and collet type locking fingers to prevent upward movement.

The I.D. of the lock has a relatively smooth, uninterrupted flow path and is excellent for high volume completions. When the packing gland and packing unit assembly is made up, the item becomes an M Lock.





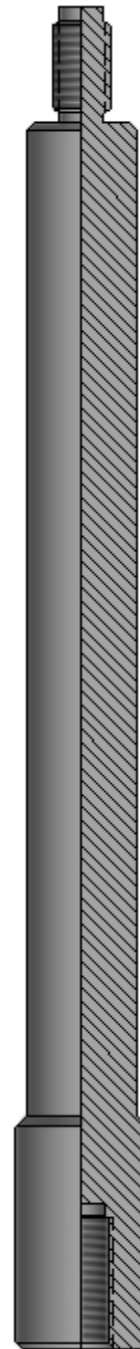
M / F LOCK

SPECIFICATIONS				
	2.750	2.810	3.688	3.810
Fishneck	2.310	2.310	3.120	3.120
No-Go O.D.	2.802	2.872	3.737	3.835
Lock O.D.	2.715	2.715	3.625	3.625
Latch I.D.	1.850	1.850	2.750	2.750
Overall Length	23.125	23.125	23.125	23.125
Lock Ring I.D.	1.750	1.750	2.625	2.625
Packing I.D.	1.500	1.500	2.625	2.625

N-1 PROBE

ASSEMBLY DESCRIPTION

The N-1 Probe is used to pull and retrieve Baker Style Equipment (page N1), specifically the N, G, L, or R Locks (page A9).





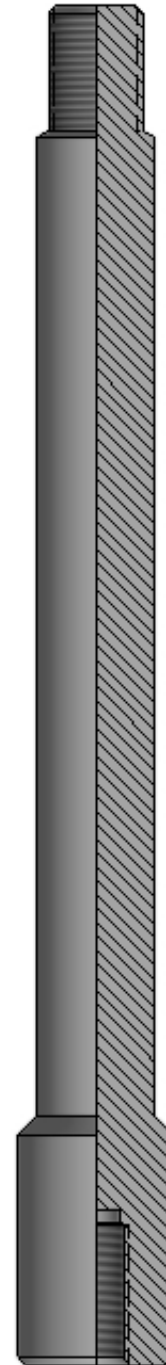
N-1 PROBE

SPECIFICATIONS		
	2.000	2.500
Connections	1/2"-13	1/2"-13
Maximum O.D.	0.938	1.235
Length	11.500	11.188

N-1 SHANK

ASSEMBLY DESCRIPTION

The N-1 Shank is used to run and set Baker Style Equipment (page N1), specifically the N, G, L, or R Locks (page A9).





N-1 SHANK

SPECIFICATIONS		
	2.000	2.500
Pin Connection	3/4"-16	1"-14
Box Connection	1/2"-13	1/2"-13
Maximum O.D.	0.938	1.235
Overall Length	10.875	10.813

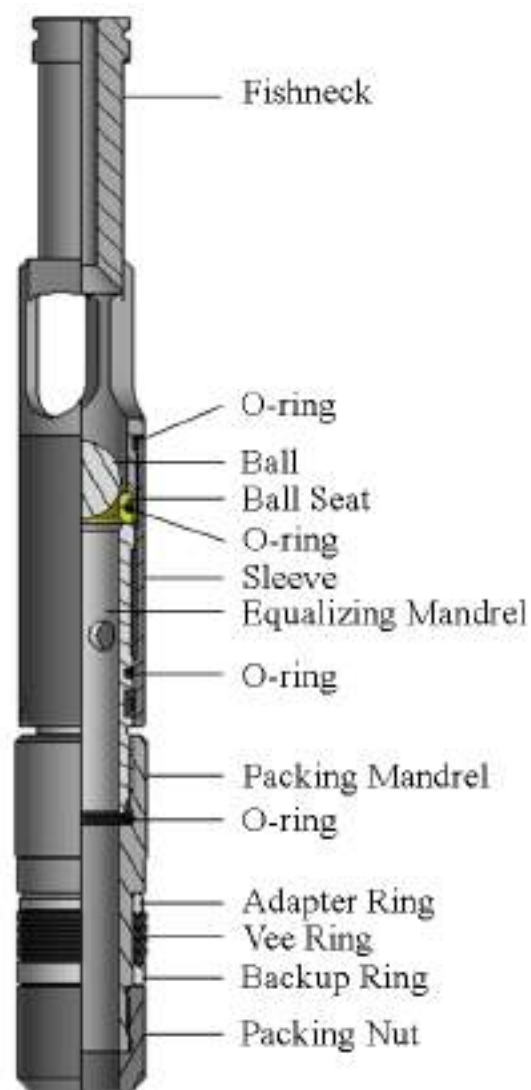
RB-2 EQUALIZING CHECK VALVE

ASSEMBLY DESCRIPTION

The RB-2 Equalizing Check Valve is similar to the FB-2 Equalizing Check Valve (page N12). The RB-2 Packing Mandrel does not have a No-Go. The O.D. of the mandrel sits in the profile.

A Kodiak's S Pulling Tool (page J29) or a JD Pulling Tool (page J13) can be used to pull and set the RB-2 Equalizing Check Valve.

A Kodiak's C-1 Running Tool (page I4) or a JD Pulling Tool (page J13) can be used to run and set the tool.





RB-2 EQUALIZING CHECK VALVE

SPECIFICATIONS				
	1.780	1.810	1.870	2.250
Fishneck	1.375	1.375	1.375	1.750
No-Go O.D.	1.771	1.802	1.865	2.240
Length	15.680	15.680	15.680	17.375
Running Tool	C1RT-02000-01	C1RT-02000-01	C1RT-02000-01	C1RT-02500-01
Pulling Tool	SBPT-02000-01 JDCBT-02000-01	SBPT-02000-01 JDCBT-02000-01	SBPT-02000-01 JDCBT-02000-01	SBPT-02500-01 JDCBT-02500-01

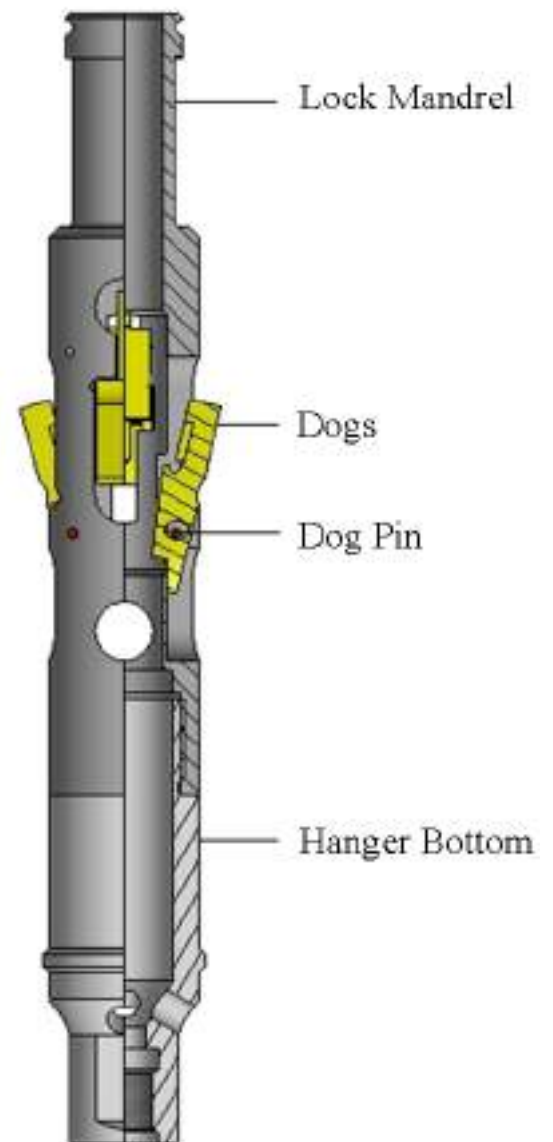
SPECIFICATIONS				
	2.310	2.560	2.750	2.810
Fishneck	1.750	2.313	2.313	2.313
No-Go O.D.	2.302	2.550	2.740	2.802
Length	17.375	18.375	18.813	18.813
Running Tool	C1RT-02500-01	C1RT-02500-01	C1RT-03000-01	C1RT-03000-01
Pulling Tool	SBPT-02500-01 JDCBT-02500-01	SBPT-02500-01 JDCBT-02500-01	SBPT-03000-01 JDCBT-03000-01	SBPT-03000-01 JDCBT-03000-01

SPECIFICATIONS				
	3.688	3.750	3.810	
Fishneck	3.125	3.125	3.125	
No-Go O.D.	3.678	3.740	3.802	
Length	18.500	18.620	18.660	
Running Tool	C1RT-04000-01	C1RT-04000-01	C1RT-04000-01	
Pulling Tool	SBPT-04000-01 JDCBT-04000-01	SBPT-04000-01 JDCBT-04000-01	SBPT-04000-01 JDCBT-04000-01	

RZB BOMB HANGER

ASSEMBLY DESCRIPTION

The RZB Bomb Hanger works in similar fashion to the FSB Bomb Hanger (page N14), utilizing a Z Lock (page N40).





RZB BOMB HANGER

SPECIFICATIONS				
	1.500	1.780	1.810	1.870
Fishneck	1.188	1.375	1.375	1.375
No-Go O.D.	1.490	1.802	1.865	1.906
Length	11.516	11.516	11.516	11.516
Running Tool	C1RT-01500-01	C1RT-02000-01	C1RT-02000-01	C1RT-02000-01
Pulling Tool	SBPT-01500-01	SBPT-02000-01	SBPT-02000-01	SBPT-02000-01
Pulling Prong	BBPO-01500-04	BBPO-02000-04	BBPO-02000-04	BBPO-02000-04

SPECIFICATIONS				
	2.250	2.310	2.560	2.750
Fishneck	1.750	1.750	1.750	2.313
No-Go O.D.	2.302	2.365	2.625	2.802
Length	12.517	12.517	13.320	12.407
Running Tool	C1RT-02500-01	C1RT-02500-01	C1RT-02500-01	C1RT-03000-01
Pulling Tool	SBPT-02500-01	SBPT-02500-01	SBPT-02500-01	SBPT-03000-01
Pulling Prong	BBPO-02000-04	BBPO-02500-04	BBPO-02560-04	BBPO-03000-04

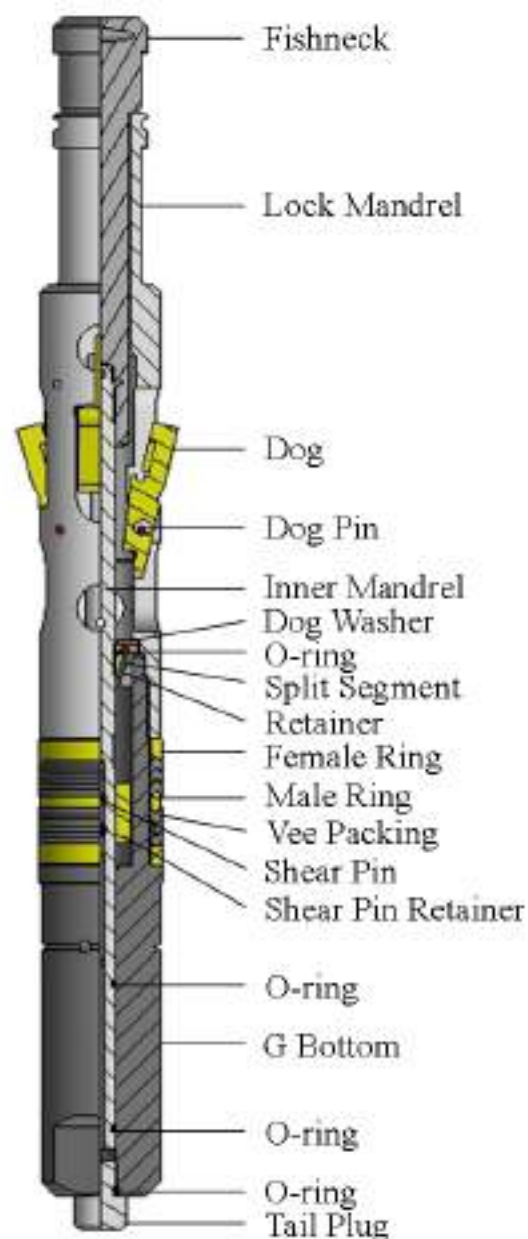
SPECIFICATIONS				
	2.810	3.688	3.750	3.810
Fishneck	2.313	3.125	3.125	3.125
No-Go O.D.	2.865	3.740	3.802	3.864
Length	12.407	14.102	14.102	14.102
Running Tool	C1RT-03000-01	C1RT-04000-01	C1RT-04000-01	C1RT-04000-01
Pulling Tool	SBPT-03000-01	SBPT-04000-01	SBPT-04000-01	SBPT-04000-01
Pulling Prong	BBPO-03000-04	BBPO-04000-04	BBPO-04000-04	BBPO-04000-04

RZG BLANKING PLUG

ASSEMBLY DESCRIPTION

The RZG Blanking Plug works in the same way as the FWG Blanking Plug (page N20) however the RZG Blanking Plug does not feature a No-Go on the lock. Instead, the No-Go is located on the G Bottom.

The RZG Blanking Plug will be set and locked in the F Profile. Once it has been properly locked it will allow fluid to bypass through its side ports. This will allow pressure to be held in either direction. The RZG Blanking Plug can be equalized and pulled with standard wireline tools.





RZG BLANKING PLUG

SPECIFICATIONS				
	1.500	1.560	1.780	1.810
Fishneck	1.188	1.188	1.375	1.375
No-Go O.D.	1.490	1.552	1.771	1.802
Length	14.690	14.560	15.600	15.600

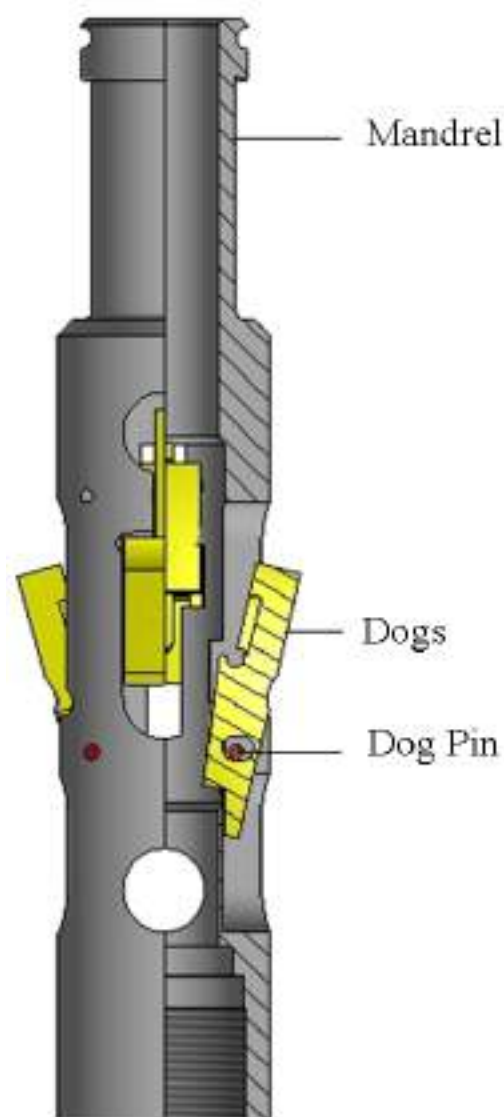
SPECIFICATIONS				
	1.870	2.250	2.310	2.750
Fishneck	1.375	1.750	1.750	2.313
No-Go O.D.	1.865	2.240	2.240	2.740
Length	15.600	16.600	16.600	16.690

SPECIFICATIONS				
	2.810	3.688	3.750	3.810
Fishneck	2.313	3.125	3.125	3.125
No-Go O.D.	2.802	3.678	3.740	3.802
Length	16.690	19.470	19.470	19.470

S LOCK (TYPE B)

ASSEMBLY DESCRIPTION

The Kodiak's S Lock has four locking Dogs. Two of these Dogs face upward and prevent the assembly from moving upward. The other two Dogs face downward and prevent downward movement without needing a No-Go shoulder.





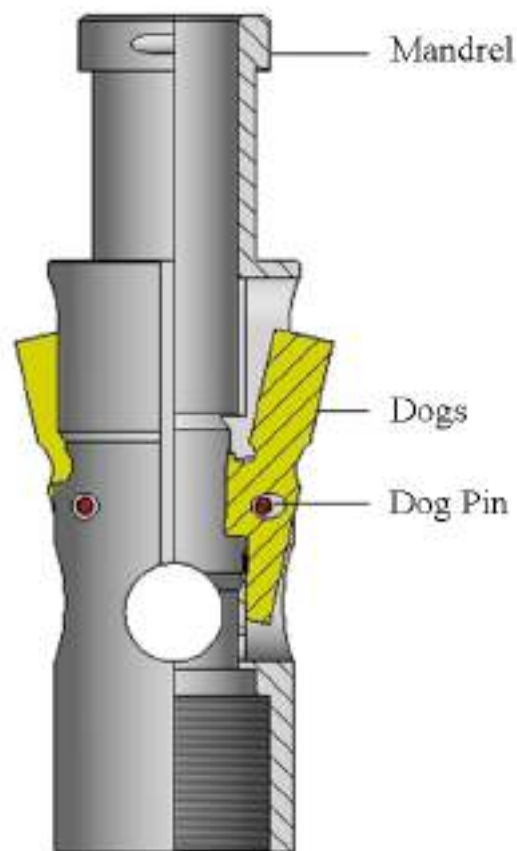
S LOCK (TYPE B)

SPECIFICATIONS			
	2.375	2.875	3.500
Fishneck	1.375	1.750	2.313
Maximum O.D.	1.750	2.188	2.688
Length	9.125	9.375	10.468
Running Tool	C1RT-02000-01	C1RT-02500-01	C1RT-03000-01
Pulling Tool	SBPT-02000-01	SBPT-02500-01	SBPT-03000-01
Pulling Prong	BBPO-02000-01	BBPO-02500-01	BBPO-03000-01
Running Shank	ASBT-02000-01	ASBT-02500-01	ASBT-03000-01

W LOCK (TYPE B)

ASSEMBLY DESCRIPTION

The Kodiak's W Lock is used with Kodiak's F Landing Nipples. The Kodiak's W Lock has a top No-Go to prevent downward movement. The Dogs on the W Lock are upward facing and prevent the assembly from moving upward.





W LOCK (TYPE B)

SPECIFICATIONS				
	1.430	1.500	1.625	1.780
Fishneck	1.188	1.188	1.188	1.375
No-Go O.D.	1.490	1.550	1.615	1.802
Lock O.D.	1.416	1.531	1.531	1.750
Length	6.440	6.440	6.440	7.500
Running Tool	C1RT-01500-01	C1RT-01500-01	C1RT-01500-01	C1RT-02000-01
Pulling Tool	SBPT-01500-01	SBPT-01500-01	SBPT-01500-01	SBPT-02000-01
Pulling Probe	BBPO-01500-01	BBPO-01500-01	BBPO-01500-01	BBPO-02000-01

SPECIFICATIONS				
	1.810	1.870	2.250	2.310
Fishneck	1.375	1.375	1.750	1.750
No-Go O.D.	1.865	1.905	2.302	2.365
Lock O.D.	1.750	1.750	2.188	2.188
Length	7.500	7.500	7.690	7.690
Running Tool	C1RT-02000-01	C1RT-02000-01	C1RT-02500-01	C1RT-02500-01
Pulling Tool	SBPT-02000-01	SBPT-02000-01	SBPT-02500-01	SBPT-02500-01
Pulling Probe	BBPO-02000-01	BBPO-02000-01	BBPO-02500-01	BBPO-02500-01



W LOCK (TYPE B)

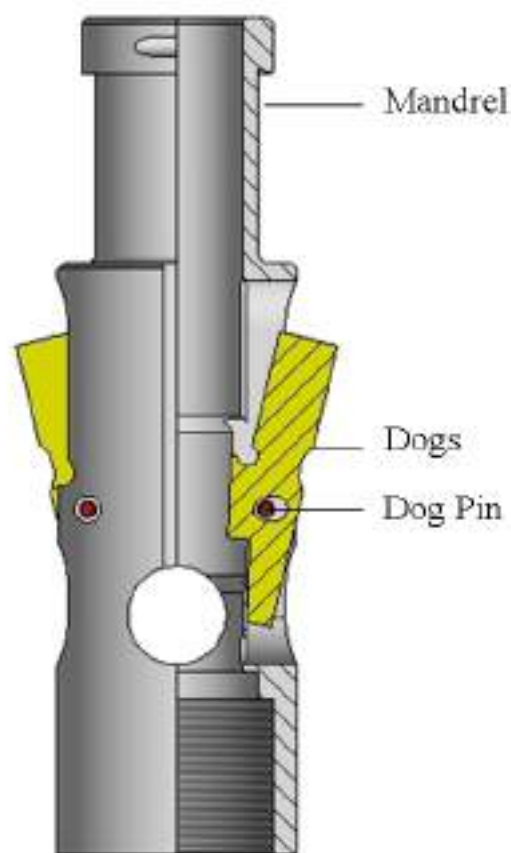
SPECIFICATIONS			
	2.560	2.750	2.810
Fishneck	1.750	2.313	2.313
No-Go O.D.	2.625	2.802	2.865
Lock O.D.	2.500	2.688	2.688
Length	8.250	8.250	8.250
Running Tool	C1RT-02500-01	C1RT-03000-01	C1RT-03000-01
Pulling Tool	SBPT-02500-01	SBPT-03000-01	SBPT-03000-01
Pulling Probe	BBPO-02560-04	BBPO-03000-01	BBPO-03000-01

SPECIFICATIONS			
	3.688	3.750	3.810
Fishneck	3.125	3.125	3.125
No-Go O.D.	3.740	3.802	3.862
Lock O.D.	3.560	3.560	3.560
Length	9.950	9.950	9.950
Running Tool	C1RT-04000-01	C1RT-04000-01	C1RT-04000-01
Pulling Tool	SBPT-04000-01	SBPT-04000-01	SBPT-04000-01
Pulling Probe	BBPO-04000-01	BBPO-04000-01	BBPO-04000-01

Z LOCK

ASSEMBLY DESCRIPTION

The Kodiak's Z Lock is used with Kodiak's R Landing Nipples (page B4). The Kodiak's Z Lock has upward facing Dogs to prevent upward movement. The No-Gos shoulder is located on the downhole accessory and No-Go's in the bottom No-Go of the Kodiak's R Landing Nipple (page B4) prevent downward movement.





Z LOCK

SPECIFICATIONS				
	1.780	1.810	1.875	2.250
Fishneck	1.375	1.375	1.375	1.750
Maximum O.D.	1.750	1.750	1.750	2.188
Length	7.500	7.500	7.500	7.690
Running Tool	C1RT-02000-01	C1RT-02000-01	C1RT-02000-01	C1RT-02500-01
Pulling Tool	SBPT-02000-01	SBPT-02000-01	SBPT-02000-01	SBPT-02500-01

SPECIFICATIONS				
	2.310	2.750	2.810	3.680
Fishneck	1.750	2.313	2.313	3.125
Maximum O.D.	2.188	2.688	2.688	3.562
Length	7.690	8.250	8.250	9.930
Running Tool	C1RT-02500-01	C1RT-03000-01	C1RT-03000-01	C1RT-04000-01
Pulling Tool	SBPT-02500-01	SBPT-03000-01	SBPT-03000-01	SBPT-04000-01

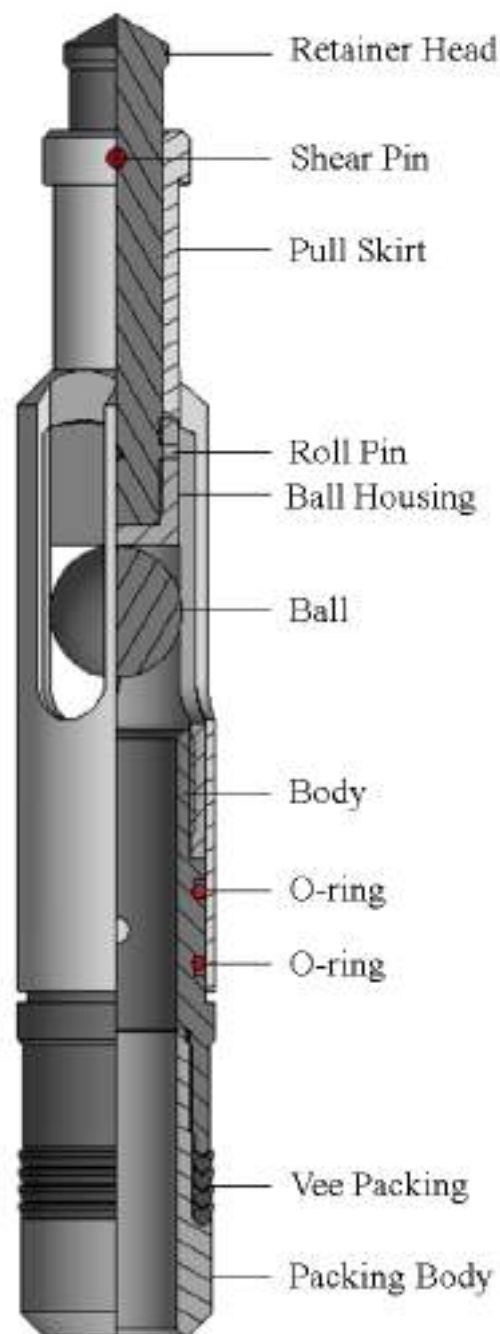
SPECIFICATIONS				
	3.750	3.810		
Fishneck	3.125	3.125		
Maximum O.D.	3.562	3.562		
Length	9.930	9.930		
Running Tool	C1RT-04000-01	C1RT-04000-01		
Pulling Tool	SBPT-04000-01	SBPT-04000-01		

A STANDING VALVE

ASSEMBLY DESCRIPTION

The A Standing Valve is a ball and seat style assembly that is used to hold pressure.

The A Standing Valve is for use in gas lift wells in order to contain the fluid in the tubing during an injection cycle.





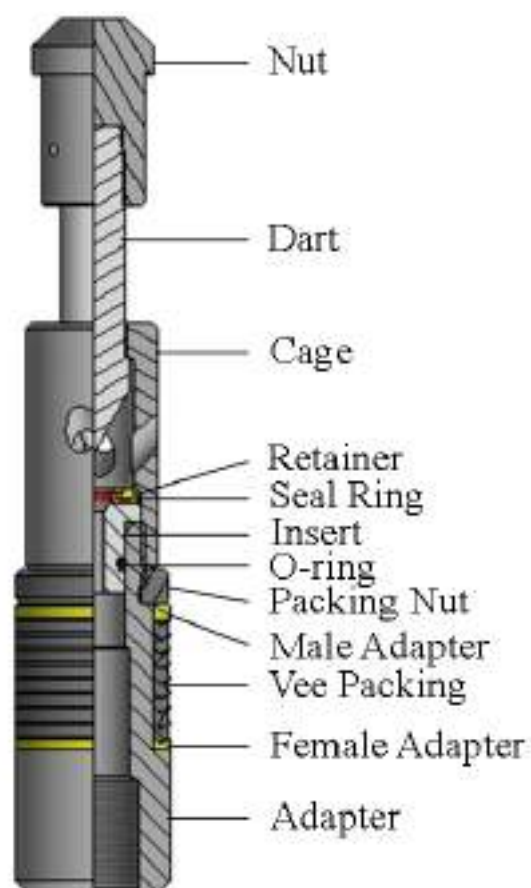
A STANDING VALVE

SPECIFICATIONS			
	1.500	2.000	2.500
Fishneck	0.875	1.375	1.375
No-Go O.D.	1.480	1.860	2.295
Length	10.750	12.625	12.875
Shear Pin	3/16" X 7/8"	3/16" X 1-3/8"	3/16" X 1-3/8"
Ball	3/4"	1-1/4"	1-1/2"
Flow Area	0.071	0.233	0.282

N TEST TOOL

ASSEMBLY DESCRIPTION

The N Test Tool is used to pressure test the tubing above the Landing Nipple (page B1). The tool is designed to hold pressure in the tubing.





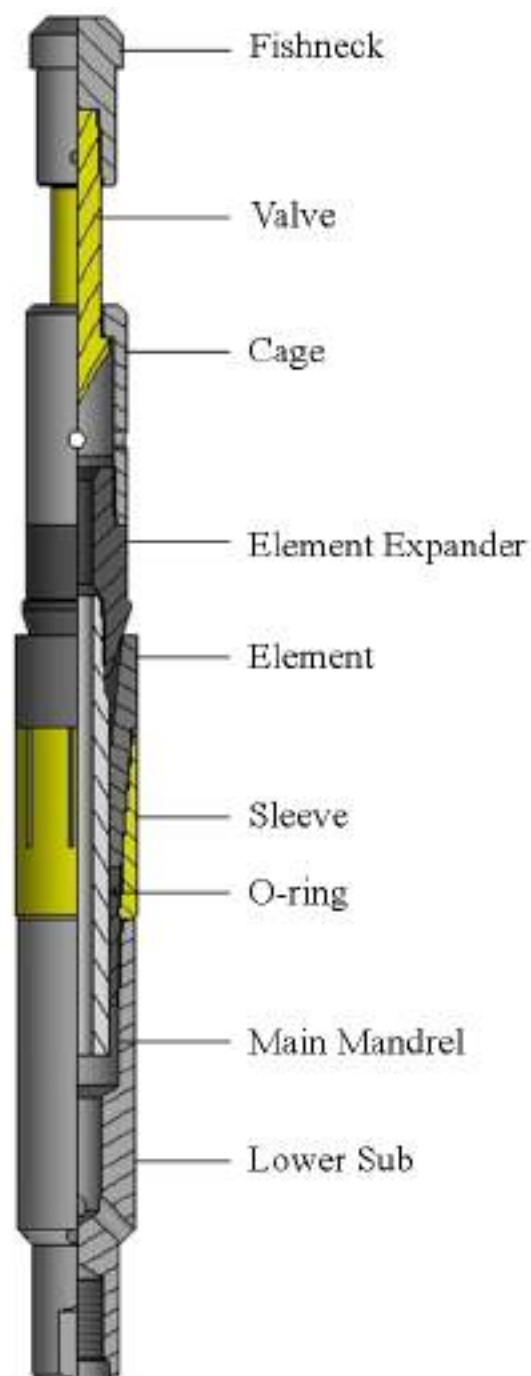
N TEST TOOL

SPECIFICATIONS			
	2.000	2.500	3.000
Fishneck	1.375	1.375	2.313
Connection	1-1/8"-12	1-11/32"-14	1-7/8"-12
No-Go O.D.	1.865	2.300	2.865
Length	10.281	9.969	11.000
Roll Pin	1/8" X 1-3/16"	1/8" X 1-3/16"	1/8" X 2"

W CIRCULATING PLUG

ASSEMBLY DESCRIPTION

The W Circulating Plug is a removable check valve that can be installed below a tubing perforation. It may also be used to test tubing from above.





W CIRCULATING PLUG

SPECIFICATIONS			
	1.750	2.000	2.500
Pulling Flange O.D.	1.000	1.375	1.375
Maximum O.D.	1.547	1.859	2.297

X SELECTIVE TEST TOOL

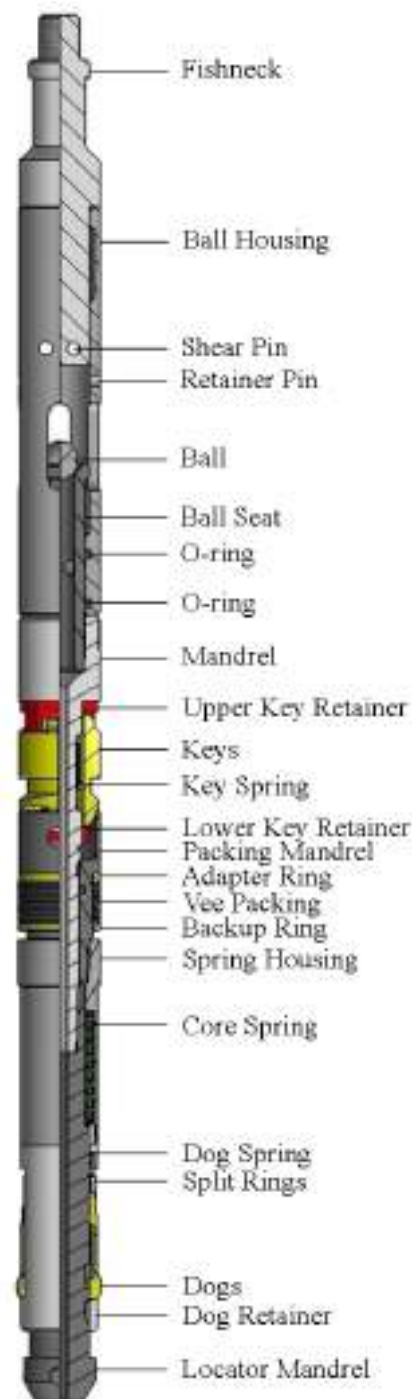
ASSEMBLY DESCRIPTION

The X Selective Test Tool is used to pressure test the tubing above the Landing Nipple (page B1) in which it is set. The Locator Mandrel on this tool allows the operator the flexibility to locate, land and pressure test the tubing from any desired X Landing Nipple (page B6) within the tubing string.

If it becomes necessary to leave the test tool downhole, upward jarring will shear two pins that connect the Fishneck to the Ball Housing. This will allow the tool string to return to the surface. An internal fishneck on the ball housing of the test tool will allow the test tool to be retrieved with a GS Pulling Tool (page J9).

The X Selective Test Tool tests tubing, locates leaks, or sets hydraulic set packers. When the Keys are retracted in a selective position, the tool is run to a point below the desired Landing Nipple (page B1). Jarring up the X Selective Test Tool will then pick up the Keys to trip to a non-selective position.

Pressure may then be applied from above.





X SELECTIVE TEST TOOL

SPECIFICATIONS			
	2.000	2.500	3.000
Fishneck	1.375	1.375	1.750
Connections		1" L.P.	1" L.P.
Maximum O.D. (Keys Retracted)	1.870	2.305	2.740
Maximum O.D. (Keys Expanded)	2.194	2.620	3.190
Length	22.406	24.219	25.984
Roll Pin	1/8" X 1-3/16"	1/8" X 1-3/16"	1/8" X 2"