



## **BDAF” BDHF” TOP NO-GO LOCK MANDREL**

The “**BDAF**” and “**BDHF**” **Lock Mandrel** assemblies are top no-go style locks. With a no-go shoulder located just below the locking dogs, these locks will land and lock flow control devices in the “BDAF” and “BDHF” type top no-go seating nipples.

Lock Mandrel selection should be compatible with the size and model designation (based on designed pressure rating) of the selected Seating Nipple.

### **FEATURES/BENEFITS**

- Simple and rugged construction
- Large pressure bearing locking dogs eliminating no-go shoulder swaging
- Locking mechanism is located above the seating elements, therefore no O-rings are required
- Smooth bore through the lock does not subject the operating mechanism to corrosion or sticking by foreign materials
- Running tool gives a positive indication that the lock is set in the nipple and that the locking operation is complete
- All locks are good for H<sub>2</sub>S/CO<sub>2</sub> service at 300°F (148.8°C) with standard seals
- The lock and running tool are compatible with normal wireline equipment and procedures.

### **ACCESSORIES**

- “BDA” Running Tool
- “BDD” Probe Extension
- “BDGS” Pulling Tool

### **ORDERING EXAMPLE:**

Size 2.750” Model “BDAF” Top No-Go Lock Mandrel for H<sub>2</sub>S/CO<sub>2</sub> Service

Model	Pressure		Identification Grooves
	Above	Below	
BDAR	10,000 psi	10,000 psi	1
BDHR	10,000 psi	15,000 psi	2

For dimensional data and additional information, please contact our BDWS Sales representative. Material available other than 9CR-1MO.



**BDAF Top No Go  
Lock Mandrel**





# Black Diamond WELL SERVICES

Specification Guide											Pressure Rating
Tubing Dimensions							Nipple Dimension				
OD		Weight Lbs/Ft	ID		Drift		Seal Bore Min		Top No Go Max		
Inch	mm		Inch	mm	Inch	mm	Inch	mm	Inch	mm	
1.600	40.64	2.33	1.380	35.05	1.286	32.66	1.250	31.75	*		A
1.900	48.26	2.76	1.610	40.89	1.516	38.50	1.500	38.10	1.550	39.62	A
2.375	60.33	4.60	1.995	50.67	1.901	48.28	1.875	47.63	*		A
		5.30	1.939	49.25	1.845	46.86	1.781	45.23	1.835	46.61	H
		5.95	1.867	47.42	1.773	45.03	1.710	43.43	1.765	44.83	
		7.70	1.703	43.25	1.609	40.86	1.500	38.10	1.595	36.78	
2.875	73.03	6.40	2.441	62.00	2.347	59.61	2.313	58.75	*		A
							2.250	58.75	2.305	58.55	
		7.90	2.323	59.00	2.229	56.61	2.188	55.57	2.225	56.52	H
		8.60	2.259	57.37	2.165	54.99	2.125	53.97	2.160	54.86	
							2.062	52.37	2.115	53.72	
		9.50	2.195	55.75	2.101	53.36	2.000	50.80	2.080	52.83	
		11.00	2.065	52.45	1.972	50.08	1.875	47.62	1.935	49.15	
							1.812	46.02	1.865	47.37	



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Specification Guide											Pressure Rating Letter
Tubing Dimensions							Nipple Dimension				
OD		Weight Lbs/Ft	ID		Drift		Seal Bore Min ID		Top No Go Max OD		
Inch	mm		Inch	mm	Inch	mm	Inch	mm	Inch	mm	
3.500	88.90	9.30	2.992	76.00	2.867	72.82	2.813	71.45	2.865	47.37	A
			2.750	69.85	2.625	66.67	2.562	65.07	2.805	71.25	
		12.70	2.548	64.71	2.423	61.54	2.313	58.75	2.390	60.71	H
		17.05	2.440	61.97	2.315	58.80	2.188	55.58	2.225	56.52	
4.000	101.60	11.00	3.476	88.29	3.351	85.12	3.313	84.15	*		A
		11.60	3.428	87.07	3.303	83.90	3.250	82.55	*		
		13.40	3.340	84.84	3.215	81.66	3.125	79.38	3.200	81.28	
		16.50	3.140	79.76	3.015	76.58	2.813	71.45	2.865	72.77	
4.500	114.30	11.60	4.000	101.60	3.875	98.42	3.813	96.85	3.870	98.30	A
		12.75	3.958	100.53	3.833	97.35	3.813	96.85	*		
							3.750	95.25	3.805	96.65	
		13.50	3.920	99.57	3.795	96.39	3.750	95.25	*		
							3.688	93.67	3.740	95.00	
		16.90	3.724	94.59	3.679	93.44	3.437	87.29	3.500	88.90	
		18.80	3.640	92.46	3.515	89.82	3.437	87.30	3.500	88.90	
		21.60	3.500	88.90	3.375	85.73	3.313	84.15	3.375	85.73	
3.250	82.55						3.305	89.95			
5.000	127.00	11.50	4.560	115.82	4.435	112.65	4.313	109.55	4.390	111.51	A
							4.250	107.95	4.305	109.35	
		15.00	4.408	111.96	4.283	108.79	4.250	107.95	*		
							4.125	104.78	4.200	106.68	
		18.00	4.276	108.61	4.151	105.43	4.000	104.78	*		
							4.000	101.60	4.090	103.89	
		20.80	4.156	105.56	4.031	102.38	3.875	101.60	*		
							3.813	98.43	3.950	100.33	
		23.60	4.044	102.71	3.919	99.54	3.750	96.85	3.870	98.30	
							3.750	95.25	3.805	96.65	
5.500	139.70	15.50	4.950	125.73	4.825	122.55	4.750	120.65	4.820	122.43	A
		17.00	4.892	124.25	4.767	121.08	4.750	120.65	*		
							4.562	115.87	4.650	118.11	
		20.00	4.778	121.36	4.653	118.18	4.562	115.87	4.650	118.11	
		23.00	4.670	118.61	4.545	115.44	4.312	109.52	4.390	111.51	
		26.00	4.548	115.51	4.423	112.34	4.312	109.52	4.390	111.51	
		28.40	4.440	112.77	4.315	109.60	4.312	109.52	*		
4.250	107.95						4.305	109.35			
7.000	177.80	35.00	6.004	152.50	5.879	149.33	5.750	146.50	5.840	148.34	A
		29.00	6.184	157.07	6.059	153.90	6.000	152.40	6.058	153.87	A

\*The top no-go is not advisable for this weight of tubing because of drift constraints.  
If top no-go is needed, drop down one seal bore size.