



“BDAR” “BDHR” Bottom No-Go Lock Mandrel

The “**BDAR**” and “**BDHR**” **Lock Mandrel** assemblies are bottom no-go style locks. These locks have a no-go shoulder either on the packing mandrel or, in cases where packing is not required, it is located on the flow control accessory. These locks will land and lock flow control devices only in the “BDAR” and “BDHR” bottom no-go seating nipples.

Lock 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 H₂S/CO₂ 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 “BDAR” Bottom No-Go Lock Mandrel for H₂S/CO₂ 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.



**“BDAR”
Bottom No Go
Lock Mandrel**



Black Diamond WELL SERVICES

Specification Guide											Pressure Rating Letter
Tubing Dimensions							Nipple Dimension				
OD		Weight Lbs/Ft	ID		Drift		Seal Bore Min ID		Top Nogo Max OD		
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	1.160	29.46	A
1.900	48.26	2.76	1.610	40.89	1.516	38.50	1.500	38.10	1.148	29.16	A
2.375	60.33	4.60	1.995	50.67	1.901	48.28	1.875	47.63	1.822	46.28	A
		5.30	1.939	49.25	1.845	46.86	1.781	45.23	1.728	43.89	H
		5.95	1.867	47.42	1.773	45.03	1.710	43.43	1.640	41.66	
		7.70	1.703	43.25	1.609	40.86	1.500	38.10	1.448	36.78	
2.875	73.03	6.40	2.441	62.00	2.347	59.61	2.313	58.75	2.257	57.33	A
							2.250	58.75	2.197	55.80	
		7.90	2.323	59.00	2.229	56.61	2.188	55.57	2.098	59.29	H
									2.125	53.97	
		8.60	2.259	57.37	2.165	54.99	2.062	52.37	2.005	50.93	
									9.50	2.195	
11.00	2.065	52.45	1.972	50.08	1.875	47.62	1.822	46.28			
					1.812	46.02	1.760	44.70			



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Specification Guide											Pres- sure 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	2.760	70.10	A	
			2.750	69.85	2.625	66.67	2.750	69.85	2.660	67.56		
		12.70	2.750	69.85	2.625	66.67	2.562	65.07	2.472	62.79	H	
		15.80	2.548	64.71	2.423	61.54	2.313	58.75	2.230	56.64		
		17.05	2.440	61.97	2.315	58.80	2.188	55.58	2.098	53.29		
4.000	101.60	11.00	3.476	88.29	3.351	85.12	3.313	84.15	3.256	82.70	A	
		11.60	3.428	87.07	3.303	83.90	3.250	82.55	3.160	80.26		
		13.40	3.340	84.84	3.215	81.66	3.125	79.38	3.072	78.03		
		16.50	3.140	79.76	3.015	76.58	2.813	71.45	2.780	70.10		
4.500	114.30	11.60	4.000	101.60	3.875	98.42	3.813	96.85	3.759	95.48	A	
		12.75	3.958	100.53	3.833	97.35	3.813	96.85	3.759	95.48		
								3.750	95.25	3.695		93.85
		13.50	3.920	99.57	3.795	96.39	3.750	95.25	3.695	93.85		
		16.90	3.724	94.59	3.679	93.44	3.437	87.29	3.347	85.01		
		18.80	3.640	92.46	3.515	89.82	3.437	87.30	3.347	85.01		
		21.60	3.500	88.90	3.375	85.73	3.313	84.15	3.256	82.70		
						3.250	82.55	3.160	80.26			
5.000	127.00	11.50	4.560	115.82	4.435	112.65	4.313	109.55	4.255	108.08	A	
								4.250	107.95	4.135		105.03
		15.00	4.408	111.96	4.283	108.79	4.250	107.95	4.135	105.03		
								4.125	104.78	4.035		102.49
		18.00	4.276	108.61	4.151	105.43	4.000	104.78	4.035	102.49		
								4.000	101.60	3.900		99.06
		20.80	4.156	105.56	4.031	102.38	3.875	101.60	3.900	99.06		
						3.813	98.43	*				
		23.60	4.044	102.71	3.919	99.54	3.750	96.85	3.759	95.48		
							3.750	95.25	3.695	93.85		
5.500	139.70	15.50	4.950	125.73	4.825	122.55	4.750	120.65	4.660	118.36	A	
								4.750	120.65	4.660		118.36
		17.00	4.892	124.25	4.767	121.08	4.562	115.87	4.470	113.54		
								4.562	115.87	4.470		113.54
		20.00	4.778	121.36	4.653	118.18	4.562	115.87	4.470	113.54		
								4.312	109.52	4.255		108.08
23.00	4.670	118.61	4.545	115.44	4.312	109.52	4.255	108.08				
						4.312	109.52	4.255	108.08			
26.00	4.548	115.51	4.423	112.34	4.312	109.52	4.255	108.08				
						4.312	109.52	4.255	108.08			
28.40	4.440	112.77	4.315	109.60	4.250	107.95	4.135	105.03				
7.000	177.80	35.00	6.004	152.50	5.879	149.33	5.750	146.50	5.625	142.88	A	
		29.00	6.184	157.07	6.059	153.90	6.000	152.40	N/A		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.