



## Hydraulic Bit Release - HBR

The Bull Dog Hydraulic Bit Release (HBR) is designed to provide a method of dropping off the bit or mill after drilling operations are complete. When combined with the Bull Dog Plugbuster Mill, it provides an economical option for drill outs.

## Features

- Eliminates tripping the tubing after drill out
- Full open I.D. of tool after release
- Oversize Piston for low pressure release
- Shear pressure easily adjusted by adding or subtracting shear screws.
- Becomes wireline entry guide upon release.
- The use of a hex torque drive eliminates the “castled fingers” or “notched collar” in use on other tools.
- Features short high pressure check valve. Standard Drill Pipe Float Valve versions available by special order.

## Specifications

Assembly No.	Top Connection	Bottom Connection	Max O.D. (inches)	Overall Length (feet)	Pressure to Shear Single Screw (psi)	Number of Shear Screws	Maximum Shear Pressure (psi)
33-0312A	2-3/8 EUE Box	2-3/8 EUE Pin	3.12	1.56	290	6	1740
33-0312B	2-3/8 EUE Box	2-3/8 Reg Box	3.12	1.56	290	6	1740
33-0375A	2-7/8 EUE Box	2-7/8 EUE Pin	3.75	1.65	460	6	2760
33-0375B	2-7/8 EUE Box	2-7/8 Reg Box	3.75	1.75	460	6	2760

*Note: Brass Shear Screws have a ±15% shear range. The values shown are for the nominal shear value. Higher shear pressures available with steel shear screws, contact your Bull Dog representative for additional information.*





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### Shear Screw Tables

#### Brass Screws

3-1/8 OD Hydraulic Bit Release - Brass Screws

No. of Screws	Shear Pressure per Screw - psi		
	Min	Nom	Max
1	246	289	332
2	492	578	664
3	738	867	996
4	984	1156	1328
5	1230	1445	1660
6	1476	1734	1992

#### Steel Screws

3-1/8 OD Hydraulic Bit Release - Steel Screws

No. of Screws	Shear Pressure per Screw - psi		
	Min	Nom	Max
1	353	376	398
2	706	751	796
3	1059	1127	1194
4	1412	1502	1592
5	1765	1878	1990
6	2118	2253	2388

3-3/4 OD Hydraulic Bit Release - Brass Screws

No. of Screws	Shear Pressure per Screw - psi		
	Min	Nom	Max
1	391	460	529
2	782	920	1058
3	1173	1380	1587
4	1564	1840	2116
5	1955	2300	2645
6	2346	2760	3174

3-3/4 OD Hydraulic Bit Release - Steel Screws

No. of Screws	Shear Pressure per Screw - psi		
	Min	Nom	Max
1	630	671	711
2	1260	1341	1422
3	1890	2012	2133
4	2520	2682	2844
5	3150	3353	3555
6	3780	4023	4266