



PRODUCT INDEX

Seal Bore Packer System Retrievable

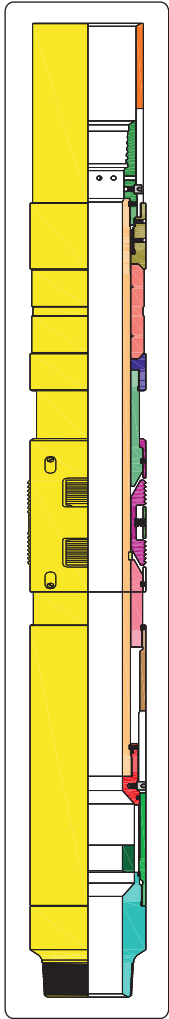
DESCRIPTION

Retrievable Hydraulic Seal Bore Packer (ERD)
Wire Line Adapter Kit
"BH" Hydraulic Setting Tool
"BR" Retrieving Tool
"BC-2 RAH" Retrievable Seal Bore Packer
"BH" Retrieving Tool
"PBR" Retrievable Seal Bore Packer
"BC" Retrieving Tool
"BP" Retrieving Tool
"PBR" Packer Bore Receptacle



SEAL BORE PACKER SYSTEM RETRIEVABLE

MODEL "BRSB" RETRIEVABLE HYDRAULIC SEAL BORE PACKER Product No. BI 646-88



DESCRIPTION:-

Model "BRSB" Retrievable Hydraulic Seal Bore Packer is a Retrievable Packer, Hydraulically set by pressure in the Tubing. It is run with BH Hydraulic Setting Tool and the retrieving is done independently from the Tubing, using a Retrieving Tool manipulated on a work string. This packer is ideally suited for highly deviated well both onshore and offshore.

APPLICATIONS :-

Model "BRSB" Retrievable Hydraulic Seal Bore Packer can be used in oil production wells or in water or gas injection wells. It is also called "ERD" Packer.

ADVANTAGES :-

Run and set with the Production Tubing.

Hydraulic setting eliminates the requirements for spacing out and opening and closing with the help of Sliding Sleeves for the displacement of fluids.

Effects on the tubing (compression and tension) are transmitted to slips- there is no shear ring which limits these stresses.

Retrieval independent of the Tubing using a Retrieving Tool. It can be left at the bottom of the well with a By-pass Blanking Plug in a Nipple to isolate the formation.

Opposed slips (without hold down) positioned

Available for standard, H₂S (or CO₂) Service, NACE MR 01-75.

OPERATION :-

RUNNING :

Check that the outside diameter corresponds to the weight of the tubing.

Lubricate the polished bore .

Install the test pins in the corresponding holes, hold them in place with an elastic band or adhesive strip.

Pressurize the assembly and make sure that there are no air pockets.

Remove test plugs and test pins.

Lower the Packer slowly to the required position. Be careful when entering Liners.

Install and land Tubing Hanger.

Test the Tubing by running a Standing Valve in a Nipple above the Packer.

Install the well head.

Displace the mud with a "completion" fluid in the annulus by introducing a lighter fluid such as diesel or gas oil into the tubing.

Run the Standing Valve into the Seating Nipple under the Packer. Remain attached to the Standing Valve

Apply a pressure to set the Packer - this Should be done without stopping pumping.

SETTING PROCEDURE :-

Pressure is applied on the bottom of the piston contained by O - ring which shear the Shear Screws.

The packings are then packed off.

The Shear Pins are sheared allowing the upper slips to come in contact with casing, followed by the Shear Pins shearing and allowing the lower slips to come in contact with the casing as well.

The pack-off is mechanically held in position by the body lock ring.

RETRIEVING PROCEDURE :-

Run the Retrieving Tool on the work string or the Tubing

Put set down weight on the Packer and turn to the right to engage the collet of the Retrieving Tool under the Supporting Sleeve of the Packer.

Once the screws have sheared the Support Sleeve move upwards freeing the support beneath the fingers of the collet. The collet flexes and detaches itself from the thread linking it to the base of the housing . By upward movement of the body of the Packer, the compression of the Packing Element is released and the Slips get retracted. The Setting Sleeve is supported by the Ring which rests on the top of the piston above the O-ring.

SPECIFICATION GUIDE FOR BRSB PACKER

CASING		TUBING	"BRSB" PACKER					
O.D.	WEIGHT	O.D.	SEAL BORE	OUT SIDE DIAMETER		THREAD DOWN	TYPICAL I.D. THRU SEALS*	
IN	LBS/FT	IN	IN	IN	MM	IN	IN	MM
5-1/2	17-20	2.688	2.690	4.552	115.620	AS ODERED		
7	23-29	3-1/2	4.000	5.955	151.2	4-1/2	2.992	75.99
	32-35	4-1/2	4.000	5.80	147.32	AS ODERED	2.992	75.99
9-5/8	40-47	3-1/2	4.000	8.425	214.0	4-1/2	2.992	75.99
		4-1/2	4.875			5-1/2	3.958	100.53

* I.D. will vary with tubing weight.



SEAL BORE PACKER SYSTEM RETRIEVABLE

WIRE LINE ADAPTER KIT Product Nos. BI 438-09

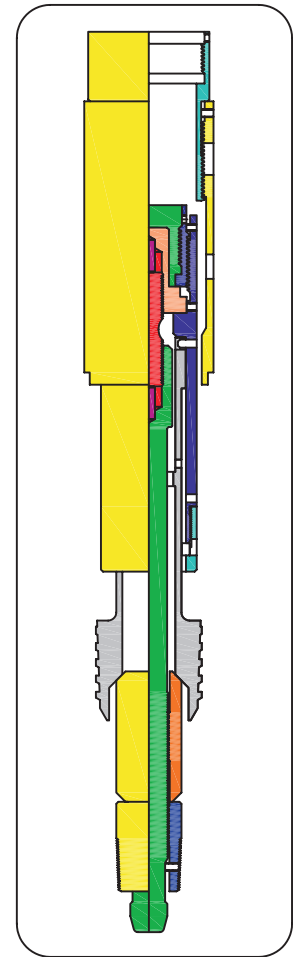
MODEL "B" WIRE LINE ADAPTER KIT FOR MODELS "B-F-1", "B-FA-1", "B-FB-1" AND "B-FAB-1", "MDP" & "BRBS" RETAINER PRODUCTION PACKERS Product Nos. BI 438-09

ITEM NO.	Part Name	No. Req'd	22-23,24-23 F/Use with #10 WLP5A	22-23,24-23 F/Use with #10 WLP5A	32B-FA-30	43-30 45-30 47-30	45-36 47-36	83-40 85-40 87-40	83B-FA-47
1	Adapter Sleeve	1	BI 02-05720-00		BI 02-05755	BI 02-05683-00	BI 02-05686-00	BI 02-05606-00	BI 02-05608-00
2	Hex. Soc. Set. Screw	Ref. +	---			BI WW-G51B-0B0 (5/16-18 x 5/16)		BI WW-G51B-0S0 (5/16-18 x 3/4)	
3	Adapter Sleeve Bushing	1	---			BI 01-53812-00		BI 01-53820-00	
4	Hex. Soc. Set. Screw	Ref. +	BI WW-G518-080 (1/4-20 x 1/4)			BI WW-G60B-080 (10-32 x 1/4)		BI WW-G51B-0D0 (5/16-18 x 3/8)	
5	Adjusting Nut	1	BI 02-05716-00	BI 02-05717-00	BI 01-37230-00	BI 01-38022-00		BI 01-36819-00	
6	Hex. Soc. Set. Screw	Ref. +	---			BI WW-G51B-0B0 (5/16-18 x 5/16)			
7	Adapter Bushing	1	BI 01-45430-00			BI 01-25394-00			
8	Stud Bushing	1	BI 01-41352-00				BI 01-25393-00		
9	Hex. Soc. Set. Screw	Ref. +	---			BI WW-G60B-0H0 (5/16-18 x 1/2)			
10	Release Stud	1	BI 01-35672-00				BI 01-34152-00		
11	Body	1	---			BI 01-31752-00			
12	Mandrel	1	BI 01-37205-00				BI 01-25386-00		
13	Split Ring Ret.	1	---			BI 01-32624-00			
14	Split Ring Seg.	2 Seg	---			BI 01-32623-00			
15	Release Sleeve	1	BI 01-33000-00		BI 01-32625-00	BI 01-39582-00	BI 01-25389-00	BI 01-35834-00	BI 01-73660-00
16	Mandrel Guide	1	BI 01-73704-00			BI 01-32291-00			
17	Lock Bushing	1	BI 01-43457-00			BI 01-25387-00			
18	Hex. Soc. Set. Screw	Ref. +	BI WW-G60B-060 (10-32 x 3/16)			BI WW-G51B-0D0 (5/16-18 x 3/8)		BI WW-G51B-080 (5/16-18 x 1/4)	
19	Gage Ring	1	BI 01-24723-00		BI 01-32628-00	BI 01-39905-00	BI 01-25396-00	BI 01-37905-00	BI 01-44437-00
20	Tension Mandrel Lock Spring	1	BI 01-35707-00						

+ Item furnished with respective parts.
Δ Or BI 01-25394-00 and BI 01-47293-00

ITEM NO.	Part Name	No. Req'd	85B-FA-47 87B-FA-47	89-40 91-40	89-44 91-44	89B-FA-52 91B-FA-52	192-60	194-60	194B-FA-75
1	Adapter Sleeve	1	BI 02-05612-00	BI 02-05619-00	BI 02-05619-00	BI 02-05616-00	BI 02-08302-00	BI 01-86900-00	BI 01-85674-00
2	Hex. Soc. Set. Screw	Ref. +	---			BI WW-G51B-0S0 (5/16-18 x 3/4)			
3	Adapter Sleeve Bushing	1	---			BI 01-53820-00			
4	Hex. Soc. Set. Screw	Ref. +	---			BI WW-G51B-0D0 (5/16-18 x 3/8)			
5	Adjusting Nut	1	---			BI 01-36819-00			
6	Hex. Soc. Set. Screw	Ref. +	---			BI WW-G51B-0B0 (5/16-18 x 5/16)			
7	Adapter Bushing	1	---			BI 01-25394-00			
8	Stud Bushing	1	---			BI 01-25393-00			
9	Hex. Soc. Set. Screw	Ref. +	---			BI WW-G60B-0H0 (5/16-18 x 1/2)			
10	Release Stud	1	---			BI 01-34152-00			
11	Body	1	---			BI 01-31752-00			
12	Mandrel	1	---			BI 01-25386-00			
13	Split Ring Ret.	1	---			BI 01-32624-00			
14	Split Ring Seg.	2 Seg	---			BI 01-32623-00			
15	Release Sleeve	1	BI 01-73660-00	BI 01-35834-00	BI 01-44586-00	BI 01-86351-00	BI 01-44561-00		BI 01-85673-00
16	Mandrel Guide	1	---			BI 01-32291-00			BI 01-85672-00
17	Lock Bushing	1	---			BI 01-25387-00			
18	Hex. Soc. Set. Screw	Ref. +	---			BI WW-G51B-080 (5/16-18 x 1/4)			
19	Gage Ring	1	BI 01-44437-00	BI 01-37905-00	BI 01-44895-00	BI 01-86352-00	BI 01-44585-00		BI 01-85913-00
20	Tension Mandrel Lock Spring	1	---						

+ Item furnished with respective parts.
Δ Or BI 01-25394-00 and BI 01-47293-00



Wire Line Adapter Kit
Product No. BI 438-09



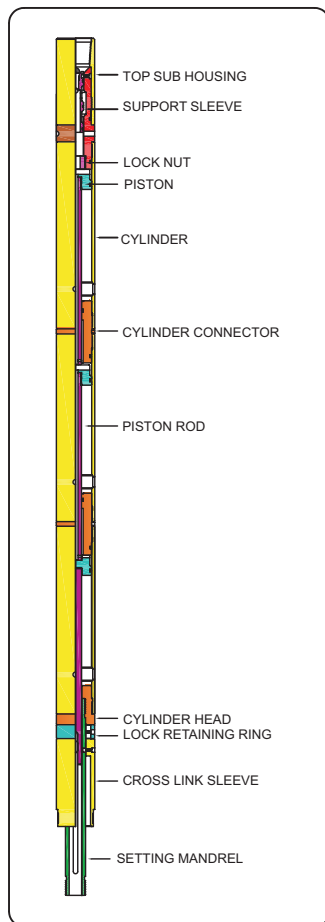
SEAL BORE PACKER SYSTEM RETRIEVABLE

MODEL "BH" HYDRAULIC SETTING TOOL FOR MODEL "BD" PERMANENT PACKER AND RETRIEVABLE HYDRAULIC SEAL BORE PACKER Product No.:- BI 414-71

DESCRIPTION:-

The model "BH" Hydraulic Setting Tool is used to set MODEL BD Permanent Packer and Model "BRSB" Retrievable Hydraulic Seal Bore Packer.

The Packer is run in the model "B" Wire Line Adapter Kit, attached to the model "BH" Hydraulic setting tool on the drill pipe and lower to setting depth. The tubing fills automatically as it is run in, though a ported top sub in the setting assembly. The ports also permit circulation at any time. A 1 7/16" Brass Ball is pumped down to seat in the hydraulic setting tool. Approximately 1500 psi is applied to set the packer slips. Following which the pressure is released and / or tension applied to shear the release stud of the Wire line Adapter Kit. The Hydraulic Setting Tool along with wire line adapter kit can then be retrieved leaving the packer set in hole.



Hydraulic Setting Tool
Product No. BI 414-71

MODEL "BR" RETRIEVING TOOL Product No. BI 646-71

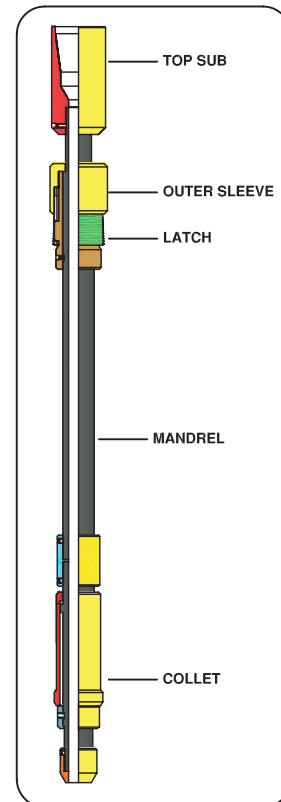
DESCRIPTION:-

The model "BR" Retrieving Tool is used for retrieving MODEL "BRSB" Retrievable Hydraulic Seal Bore Packer.

The latch of the Retrieving Tool is engaged in the Top Box Thread of the Seal Bore Packer.

Which is a left hand sq. thread. Put Set down weight 3000-5000 Lbs on the Packer and turn to the right to engage the collet of the Retrieving Tool under the supporting sleeve of the Packer.

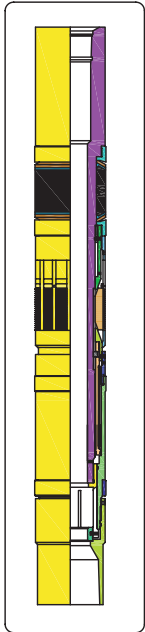
PULL! In principle the Packer should release with a pull of 5-10 tons. Once the screws have sheared the support sleeve moves upwards freeing the support beneath the finger of the collet. The latter can then flex and detach itself from the thread linking it to the base of the Housing. On upward movement of the body of the packer the compression of the packing element are Released and the slips retracted. The Setting Sleeve is supported by the Ring, which rests on the top of the Piston above the O-ring.



"BR" Retrieving Tool
Product No. BI 646-71



MODEL “BC-2RAH” RETRIEVABLE SEAL BORE PACKER



BC-2RAH Packer All Sizes Product No. BI 509-07

Introduction

The BOTIL BC-2RAH packer is a fully retrievable, high performance retainer production packer. Although originally designed for premium gravel pack applications, they may also be used as standard completion packers in high pressure and/or high temperature wells where premium retrievable retainer production packers are required.

The Model BC-2RAH Packer is fully compatible with standard BOTIL sealing accessories including retrievable and/or expandable plugs.

Features/Benefits

- One trip installation.
- No tubing manipulation required. The setting mechanism is actuated hydraulically with pump pressure alone at any depth. The tubing can be displaced and the packer set after the well is flanged up.
- Single, self-energizing cup-forming packing element for repeated low and high differential reversals. Nitrile packing elements are standard.
- Bi-directional, case hardened slips are suitable for all grades of casing. The slips are protected by the slip cage during run-in.
- Packers may be run in tandem with BOTIL model KC-22 Anchor Tubing Seal Nipple
- A left hand thread is provided in the body head of the packer. This accepts standard packer accessories and also provides a means of positioning the retrieving tool.
- The releasing mechanism for the packer is not affected by differential pressure or tail pipe weight.
- Short overall length facilitating easy running/retrieving through doglegs and tight spots.

SPECIFICATION GUIDE

Size	Casing Size	Weight Range (PPF)	Preferred Range of Casing ID's		Gauge Ring O.D(in)	Lower Bore(in)	Upper Bore	Min. Bore Thu Seal	Seal Assembly Size	Retrieving Tool Size			
			Min. (in)	Max. (in)									
84A4 – 40 x 32	7	29-35	5.879	6.189	5.812	3.250	4.000	3.250	80DA40	80-40x32			
84A4 – 47 x 38					5.820								
84B – 47 x 38			6.184	6.366	6.000	3.875	4.750	3.875 OR 4.000	81FA-47 OR 82FA-47				
194A2 – 47 x 38	9 5/8	47-53.5	8.379	8.681	8.319	4.000				3.875	192-47	190-47x38	
194A2 – 47 x 40							190-47x40						
194A2 – 60 x 47					4.750	6.000	4.750	190-60	190-60X47				
194A4-60 X47										40-47	8.525	8.835	8.465
194B-47 X40					43.5-53.5	8.535	8.755	8.375	4.000	4.750	3.875	192-47	190-47X40
194B-60 X 47					43.5-58.4	8.435	8.755	8.275	4.750	6.000	4.750	190-60	190-60X47



MODEL "BC-2RAH" SEAL BORE PACKER

BOTIL MODEL "BH" RETRIEVING TOOL

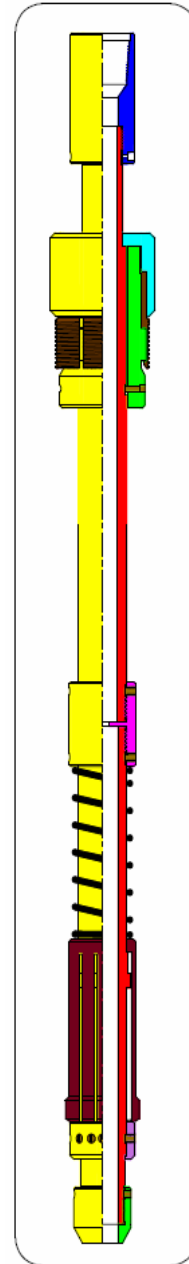
Product No. BI 646-73

DESCRIPTION & APPLICATION

The BOTIL model "BH" Retrieving Tool is used to retrieve BOTIL MODEL "BC-2RAH" Retrievable Hydraulic Seal Bore Packer by applying straight pick-up load.

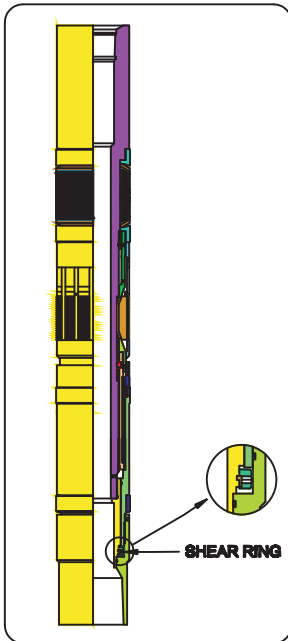
The Latch of the Retrieving Tool is engaged in the Top Box thread of the seal bore packer, which is a left hand sq. thread.

The spring loaded Collet provides easy engagement of Collet to Support Ring of Packer. Emergency release feature is provided for emergency retrieval of Drill string along with Retrieving Tool in case of Packer stuck up.





MODEL “PBR” RETRIEVABLE SEAL BORE PACKER



“PBR” PACKER Product No. BI 509-08

Introduction
The BOTIL “PBR” packer is a fully retrievable, high performance retainer production packer. Although originally designed for premium gravel pack applications, it may also be used as standard completion packer in high pressure and/or high temperature wells where premium retrievable retainer production packer is required. The Model “PBR” Packer is fully compatible with standard BOTIL sealing accessories including retrievable and/or expandable plugs.

The BOTIL Model “PBR” has the advantage over BOTIL Model “BC-2RAH” Packer since it has benefit of a Shear Ring provided in the Body of the Packer enabling the Packer to be retrieved by straight pull using a Retrieving Tool of short length.

Features/Benefits

- One trip installation.
- No tubing manipulation required. The setting mechanism is actuated hydraulically with pump pressure alone at any depth, and The tubing can be displaced and the packer set after the well is flanged up.
- Single, self-energizing cup-forming packing element for repeated low and high differential reversals. Nitrile packing elements are standard.
- Bi-directional, case hardened slips are suitable for all grades of casing. The slips are protected by the slip cage during run-in.
- Tubing may be run with Locator Tubing Seal Assembly pinned in PBR (Packer Bore Receptacle). PBR will be connected to Packer through Anchor Tubing Seal Nipple.
- Packers may be run with BOTIL model KC-22 Anchor Tubing Seal Nipple above the Packer.
- A left hand thread is provided in the body head of the packer. This accepts standard packer accessories and also provides a means of positioning the retrieving tool.
- Packer is design for Straight Pull retrievable applications
- Short overall length facilitating easy running/retrieving through doglegs and tight spots.
- Short length of Retrieving Tool required to retrieve the Packer

SPECIFICATION GUIDE

Size	Casing Size	Weight Range (PPF)	Preferred Range of Casing ID's		Gauge Ring O.D(in)	Lower Bore(in)	Upper Bore	Min. Bore Thru Seal	Seal Assembly Size	Retrieving Tool Size
			Min. (in)	Max. (in)						
84A4 – 40 x 32	7	29-35	5.879	6.189	5.812	3.250	4.000	3.250	80DA40	80-40x32
84A4 – 47 x 38					5.820					
84B – 47 x 38		23-29	6.184	6.366	6.000		3.875	4.750	3.875 OR 4.000	
84B-40 x 32						4.000	3.250	80DA40	80-40X32	
194A2 – 47 x 38	9 5/8	47-53.5	8.379	8.681	8.319	4.000	4.750	3.875	192-47	190-47x38
194A2 – 47 x 40										
194A2 – 60 x 47						4.750	6.000	4.750	192-60	190-60X47
194A4-60 X47		40-47	8.525	8.835	8.465	3.250	4.000	3.250	80DA40	80-40x32
194B-40 x 32										
194B-47 X40		43.5-53.5	8.535	8.755	8.375	4.000	4.750	3.875	192-47	190-47X40
194B-60x47	9 5/8	43.5-53.5	8.535	8.755	8.375	4.780 (4.750drift)	6.000	4.780 (4.750drift)	192-60	190-60X47
194B2-60 x 47	9 5/8	47 – 58.4	8.435	8.681	8.275	4.750	6.000	4.750	192-60	190-60x47



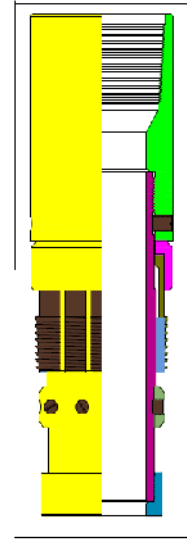
MODEL "PBR" RETRIEVABLE SEAL BORE PACKER

BOTIL MODEL "BC" RETRIEVING TOOL

Product No. BI 609-08

DESCRIPTION & APPLICATION

To retrieve PBR Packer on drill pipe or Tubing connect BOTIL Model "BC" Retrieving Tool with drill pipe. Model "BC" Retrieving Tool has Left Hand Square Thread on Latch which easily snaps into PBR Packer Left Hand Square Threads. By applying straight pull up Shear Ring of "PBR" Packer shears and Body moves up. Upward movement of Packer Body causes the packing element and slip system to retract and the Packer comes into the retrieving position.

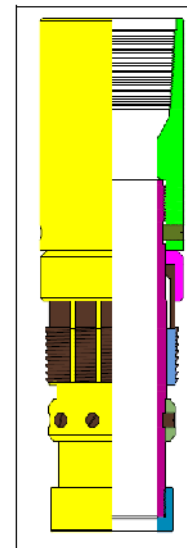


BOTIL Model "BP" Retrieving Tool

Product No. BI 610-01

DESCRIPTION/APPLICATION

Botil Model "BP" Retrieving Tool is used to retrieve PBR (Packer Bore Receptacle) with Anchor Tubing Seal Nipple or used to retrieve PBR (Packer Bore Receptacle), Anchor Tubing Seal Nipple and PBR Packer in one Trip.





MODEL "PBR" RETRIEVABLE SEAL BORE PACKER

BOTIL MODEL "PBR" PACKER BORE RECEPTACLE Product No. BI 510-01

DESCRIPTION & APPLICATION

The Botil Retrievable Packer Bore Receptacle (PBR), may be used where extreme tubing movement is anticipated because of temperature and pressure changes during treatment or production. The PBR is designed to be run above and anchored into the LEFT HAND square threads of Retainer Production Packer or Liner Hanger.

