

## HYDRAULIC SET LINER PACKER

Liner hanger packers combine a liner top packer with a liner hanger. Unlike typical weight set packers, this tool's packing element is set when the hanger is hung.

Liner hanger packers are normally used for screen or slotted liners and can also be used for scab liners.

In this function, the liner hanger packer is used as the bottom packer and a weight set packer is used as the top packer. One or more joints of pipe between the two packers effectively straddles a damaged section of casing or perforations.

Uncemented scab liners do not permanently restrict the casing ID since the packers can be retrieved by running a solid nut retrieving tool on a work string and picking up to release the packers and the liner.

### FEATURES

- Packer bodies are manufactured from casing to the same specification as the liner L-80 and P-110, using standard casing grades. Other grades are available on request.
- Hydraulic cylinders are manufactured from materials matching or exceeding yield strength of the liner hanger.
- Hydraulic pistons incorporate debris wiper seals for reliable performance.
- This tool can be used as a tension packer when run inverted.
- Slips are manufactured to Rockwell C scale hardness of 55 to 60 for use in the highest grade casing strings.
- A lock ring ensures the packing element remains set.



## MDF - MDFBB PERMANENT PACKER

The MDF and MDFBB Permanent Production Packers are high performance completion packers for the most demanding well conditions.

The MDFBB features a longer bore than the MDF for use with larger diameter production tubing.

### Both packers feature:

- a seal bore mandrel
- opposed full circle slips and cones
- a packing element assembly with a back-up system for maximum pressure integrity

These features provide a standard operating envelope of 10,000 psi pressure rating, in most sizes, at 350° F. A setting sleeve and optional bottom guides complete the packer assembly.

### Bottom guides are threaded to the mandrel for including accessories such as:

- seal bore extensions
- millout extensions
- tail pipe assemblies to the completion

A full line of completion accessories are available for both the MDF and the MDFBB packers. Optional elastomers and materials for flow wetted parts ensure compatibility with wellbore fluids.

Setting on wireline, coil tubing, or tubing work string adds operational versatility.

### FEATURES

- 10,000 psi pressure rating at 350° F is standard in most sizes.
- Full circle, opposed slips minimize induced loads in supporting casing.
- Seal bore ID in packer mandrel for optimum seal performance.
- Slimline design for fast, easy running.
- Optional bottom guides for quick addition of millout extension, seal bore extensions, and other accessories.



MDF



MDFBB