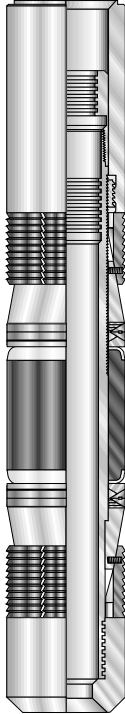
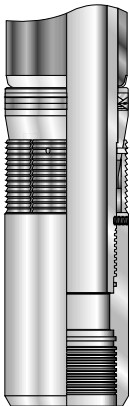


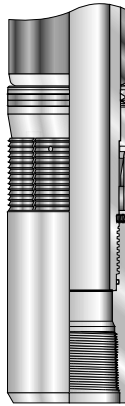
Gold Seal Packoff with Zero Tolerance Back-Up Rings



SS Millable Packer with Re-Entry Guide



SS Millable Packer with Bottom Retainer for Seal-Bore Extension



SS Millable Packer with Bottom Retainer for Mill-Out Extension

SS and SS-BB (Big Bore) Packers for Multiple Selective Completions

Product: SS and SS-BB Packers

Type: Permanent

Set: Mechanical, Hydraulic or Wireline

The SS Millable Production Packer is a full-bore, opposed-slip permanent packer available in a variety of bore sizes. TIW recommends the SS Packers for multiple selective completions where one or more zones are to be produced at a later date. It is an efficient packer in single-zone completions, formation testing, acidizing, pressuring operations, waterflooding, thermal flooding and other service operations.

All types of the SS Packers feature machined steel slips that are held in place by shear screws to prevent premature setting while running-in.

Exclusive Gold Seal Packoffs with Zero Tolerance Back-Up Rings

TIW's exclusive Gold Seal Packoff with Zero Tolerance Back-Up Rings features the field proven Gold Seal Packoff Rings along with the new Zero Tolerance Back-Up system. Gold Seal Packoffs are contoured to encase the packoff element to protect it from damage during run-in. Manufactured from a specially designed soft metal, the Gold Seal Packoff rings expand readily under normal setting pressures to match the contour of the casing wall and securely enclose the packoff elements. In addition to the Gold Seal Back-Up Rings, two interlocking metal rings are forced against the casing during setting, forming an additional extrusion barrier above and below the packoff element.

For versatility, TIW has designed the SS Packers for mechanical, hydraulic or wireline setting. By using the TIW Packer Adapter Kit with its fluid bypass design, operators can save rig time during a wireline setting.

TIW also manufactures SS Packers that will hold at 650°F. They are available on special order.

The SS-BB "Big Bore" Production Packer differs from the SS Packer in that it has a larger I.D. through the packer for greater production capacity.

Advantages

- The O.D. is lean and streamlined.
- On wireline-set models of the SS and SS-BB Packers, TIW's wireline setting adapter features an exclusive internal bypass that carries the packer to setting position in considerably less time than even the fastest competitive packer.
- Unique Gold Seal Packoff Rings protect the packoff rubber so that it is in perfect condition when it arrives at the setting point. They prevent extrusion under heat and pressure, so the seal is maintained under extreme downhole conditions.
- Two sets of opposed slips effectively hold the packing element in compression when set, making it resistant to movement from either direction and independent of tubing weights or pulls, or pressure differentials.
- Both sets of slips are set positively and do not depend on comparatively weak springs to "urge" the slip elements into engagement.
- It can be milled and retrieved in one trip, usually in less than an hour, by use of conventional tools designed for this purpose. Only the upper slips have to be milled up to retrieve the remainder of the packer, and these slips are contained in the uppermost part of the packer assembly.
- The TIW Seal Nipple provides a floating or a fixed tubing-to-packer seal when seated in the packer bore.