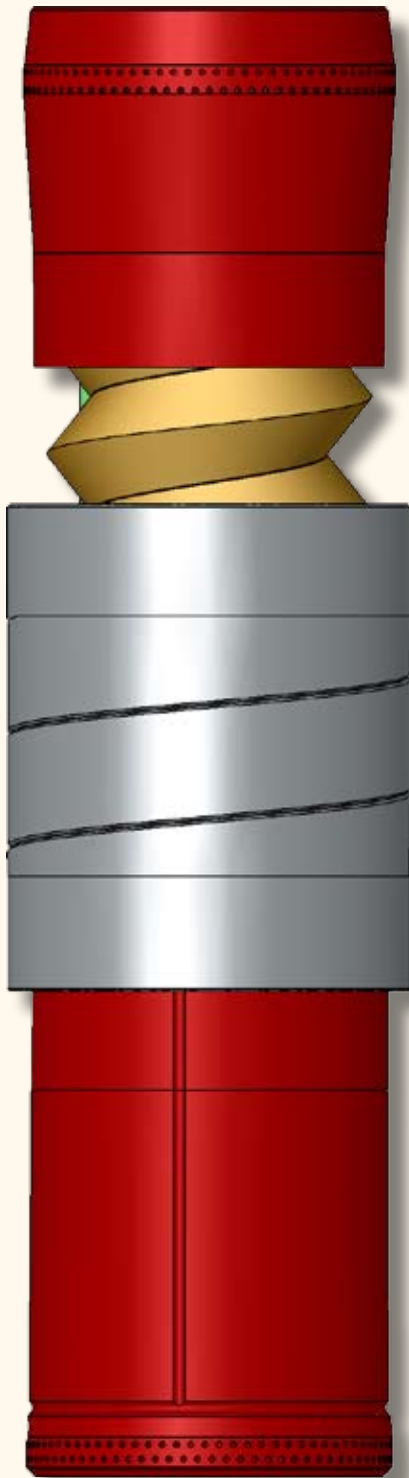




Pump Down Displacement Plug - PDDP

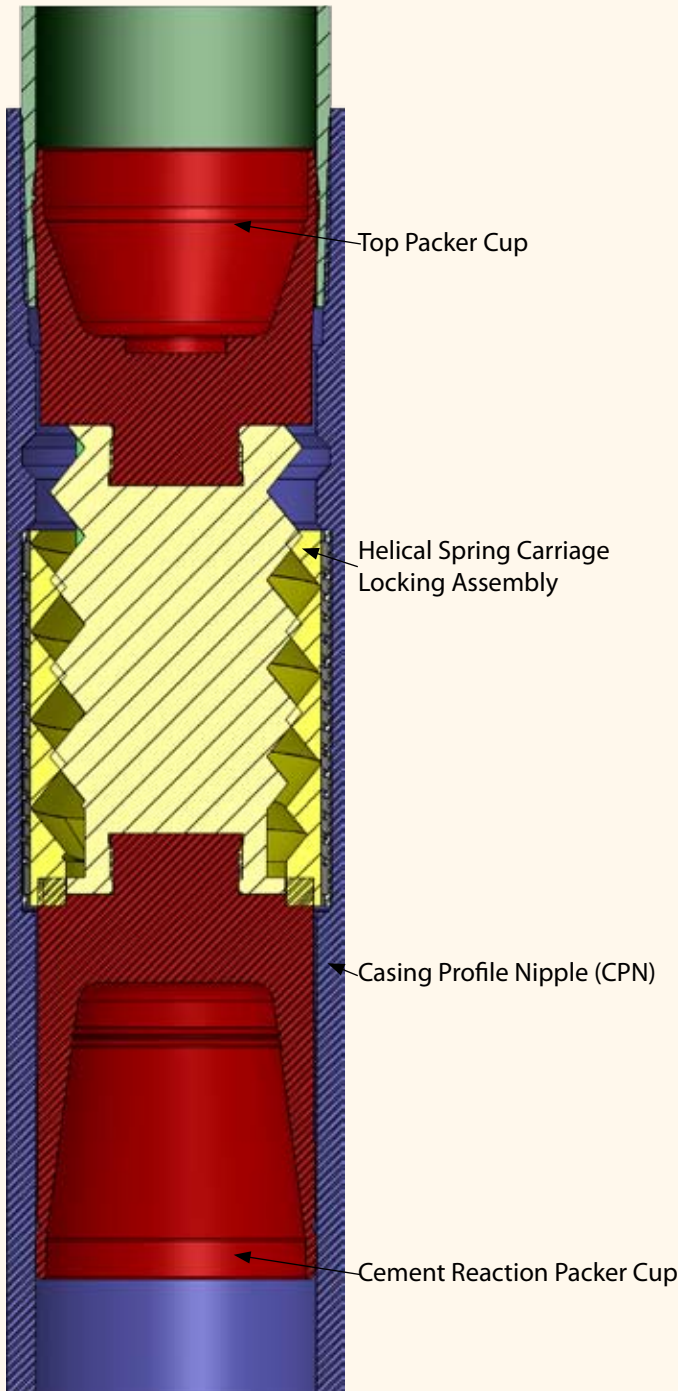
BULLETIN 73000e



The Pump Down Displacement Plug (PDDP) is a cementing accessory designed for use with TESCO's CASING DRILLING® and Casing Running solutions.

APPPLICATION & ADVANTAGES

- Manufactured from composite materials, TESCO's PDDP is specifically designed to offer performance and assurance in your cementing operations when used with TESCO'S CASING DRILLING® and CDS™ based Casing Running solutions.
- Launched at surface the PDDP is deployed by pumping down the casing and conveying the tool where it lands and seats in the TESCO Casing Profile Nipple (CPN). The PDDP is conveyed at normal cementing pump rates resulting in no additional cost in rig time or adjustments to cementing procedures.
- A part of the casing string with TESCO's CASING DRILLING® solution, the CPN can also be run if difficulty in getting pipe to the casing point is anticipated, as it allows a suite of CASING DRILLING® tools to be picked up and run if needed.
- The PDDP latches in the CPN with a positive, self-locking mechanism providing landing and placement assurance without the risk of over or under displacement associated with computing volumetric jobs. The PDDP latches where it's supposed to!
- When latched in the CPN the PDDP is able to withstand high back pressure (varies with casing and PDDP size) and provides a reliable method of preventing U-tubing of cement.
- The PDDP is inherently drillable with either fixed cutter or roller bits and is easily drilled up, allowing drilling to advance to the next casing point.



DESIGN & FEATURES

- The PDDP transports through the casing at normal pumping rates with low drag and low differential pressure across the tool. A unique helical steel carriage mechanically locks into the landing nipple recess by a trigger mechanism and expanding spring action of the coil carriage assembly. When landed, the steel carriage fits completely into the CPN recess and will not interfere with drill out.
- The bottom cup is designed to be self-anchoring providing redundant resistance to bottom pressure and sharing load of the locking carriage. Top and bottom cups have wear protection incorporated into the seal lips mitigating against excess wear during pump down.
- Proof of the PDDP landing in the CPN is evidenced by a pressure bump as the tool latches. Once landed and latched, standpipe pressure can be bled off with confidence.
- The PDDP components are built of erosion resistant composite plastics compatible with water and oil base fluids and suitable for drill out with PDC or roller cone bits.
- The PDDP can be retrieved (before landing) with TESCO's wireline conveyed spear tool.

TECHNICAL SPECIFICATIONS

Performance ratings 7" (177.8mm) PDDP

Backpressure: 3,000psi (20 684kPa)
 Temperature: 212°F (100°C)
 Drillable: PDC Bit/Mill tooth bit

AVAILABLE SIZES

Pipe Size (in)	Pipe Size (mm)	Available
4 1/2	114.3	✓
5 1/2	139.7	✓
7	177.8	✓
7 5/8	193.7	✓
8 5/8	219.1	✓
9 5/8	244.5	✓
10 3/4	273.1	✓
11 3/4	298.5	✓
13 3/8	339.7	✓

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