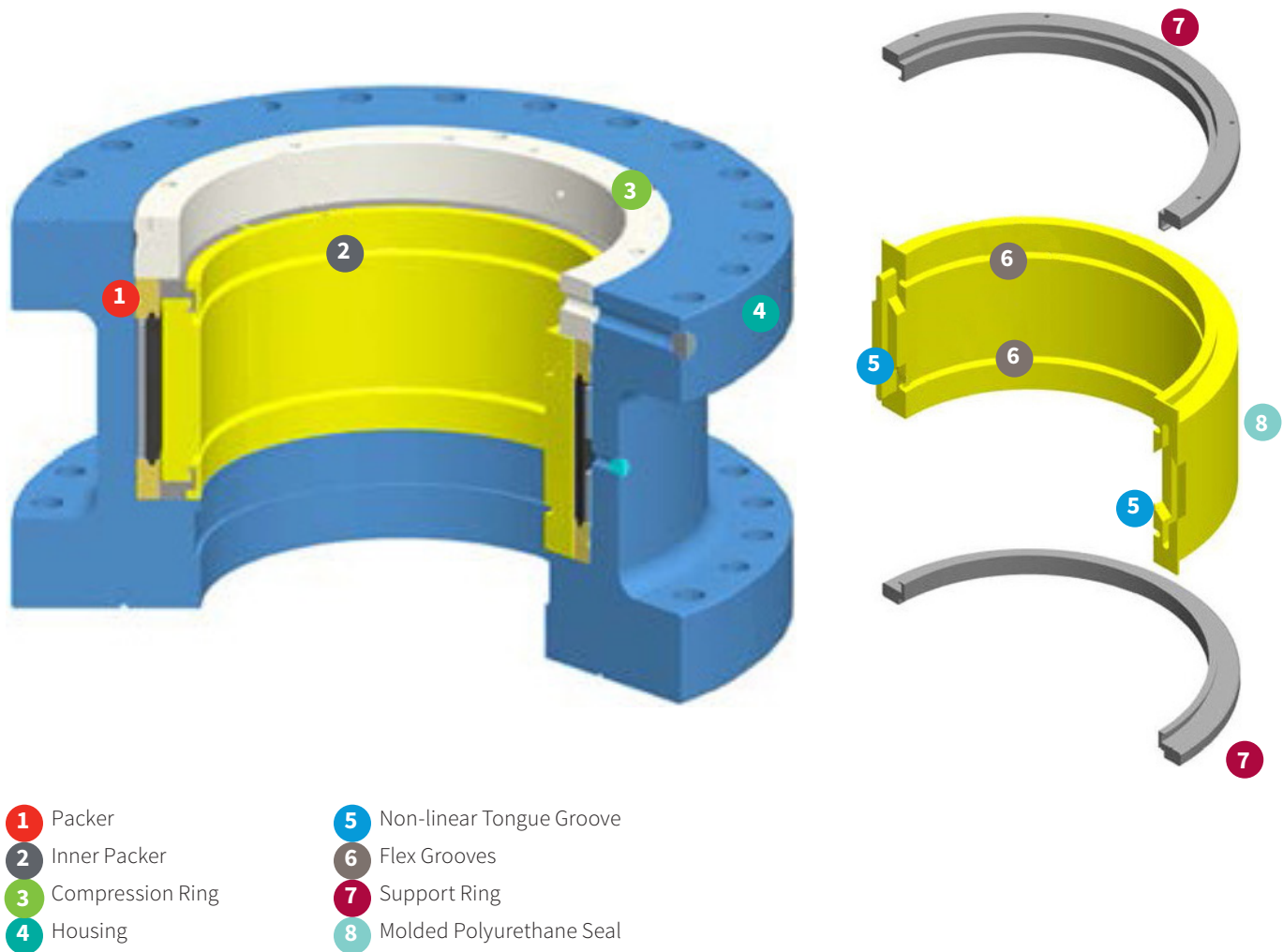


Telescopic Joint Inner Packer

Hydraulic packers have been used in the field successfully for years but with recent environmental demands requiring zero leakage, the traditional packer's sealing material wear life was drastically reduced from six months to less than one month, depending on differential pressure and sea conditions.

After extensive testing to find an improved elastomeric compound, National Oilwell Varco chose a vibrathane compound based on its tear strength, resilience, tensile strength, temperature operating range along with its chemical compatibility and has released the new telescoping joint packer seal set.



Features:

- High strength, high wear
- Non-linear tongue and groove geometry
- The flex groove provides increased inward flexing at any operating pressure
- Completely interchangeable with existing packers
- Polyurethane and steel construction
- Approximately 4x the wear life of the standard inner packer

Benefits:

- Increased wear life at higher operating pressures with zero leakage
- Easy sealing at the split interface
- Installation without having to disassemble the telescoping joint
- Better mechanical properties vs. previous XNBR rubber construction
- Less downtime

Testing:

- Passed API 16F and Tested at 5000 cycles at 500psi wellbore with a 10ft stroke
- Separate packer tested at 5000 cycles at 1000psi wellbore with 10 ft stroke

Parts information:

- Telescoping Joint Inner Packer Seal Set part # 10690851-001
- With NOV's Lubrication Kit part # 20087151, the wear life of the Telescoping Joint Inner Packer can be significantly extended