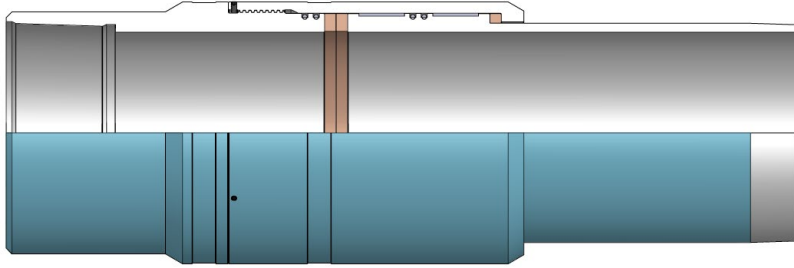


Swivel Pup Dynamic



Core Design manufacture and design several different types of swivels, both to be used above ground and below ground. The Swivel Pup Dynamic (SPD) is a swivel that is intended to be employed below ground in the wellbore.

The SPD is intended to be used in wells that have build sections. The SPD would be installed in the areas of large bend radius or a severe dog leg in the build section. Typically, the SPD is installed in the casing string to be cemented in place, directly above the area of concern. The purpose of the SPD is to allow the rotation of all the casing above its location in the string. This will place less stresses to connections or casing in this critical area of the build section if it would be rotated. Often, the torque required to turn the casing string within these severe bends can exceed the maximum torque or even yield of the connection. When these high torque values are reached, the rotation of the entire string must stop. By using the SPD, the high torque values created from the casing residing in the critical bend area will be eliminated, allowing the casing above to still be rotated.

The design of the SPD uses Bronze wear plates that provide continuous rotation while reciprocation the casing string, referred to a dynamic load. The SPD also contains seals to continue to provide a gas tight seal during and after tool movements.

Rotation and reciprocation of the casing liner being cemented into place does provide better cement bonds. The Core Design Cement Head are run in conjunction with the SPD casing string when cementing the liner in place.

APPLICATION:

- Horizontal or vertical wells.
- To be used in casing strings during cementing jobs.
- To separate rotation of an entire casing string at a chosen location.
- To be used where severe bends in build sections can cause damage to liners.

FEATURES:

- Thrust bearing system to handle prolonged high dynamic loads.
- Can be rotated and reciprocated simultaneously.
- Strength characteristics same as matting casing string.

BENEFITS:

- Allow separation of rotation within a casing string.
- Reduce torsional loads to a casing string during cementing.
- Increase cement bonds using casing movements.



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3908 - 71 Avenue | Leduc, Alberta T9E 0R8 | (780) 986-4049 | coredesignltd.com

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