

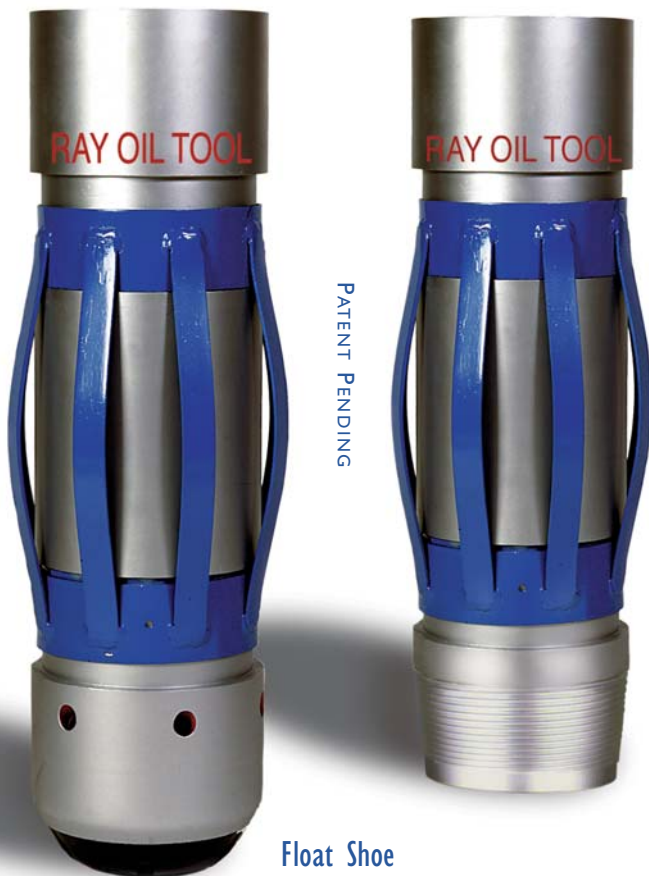
The Bi-Centered “Up-Jet” Float Shoe & Collar

The Bi-Centered Float shoe
has the unique “**Tornado**”
Up-Jet System

that has

been most successful with the ROTCO
patented Solid Centralized Float Shoe.

NEW



Float Shoe

Float Collar

The **RAY OIL TOOL COMPANY**
Bi-Centered Float Equipment is centralized with an
integral bow spring centralizer that fully recesses
for close tolerance passage and flexes out in the
larger wellbore below.

The API approved flexible bow centralizers can be
recessed to below the outside diameter of the
float equipment for easy passage through subsea
wellheads, close tolerance casing internal
diameters, and later flexes out for centralization in
underreamed or bi-center drilled wellbores. In
these most difficult conditions, this combination
with the ROTCO “Up-Jet” Float shoe institutes
the best possibility for “**No Squeeze**” results.

Centralized “Tornado” Up-Jet Action



STAND-OFF “THE CENTRALIZATION SPECIALIST”

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