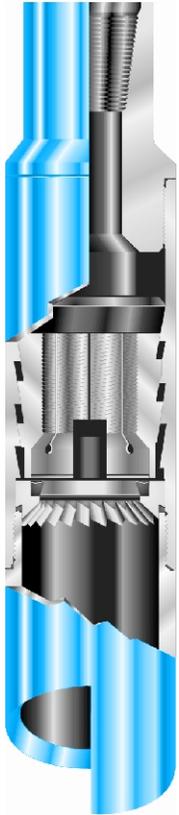
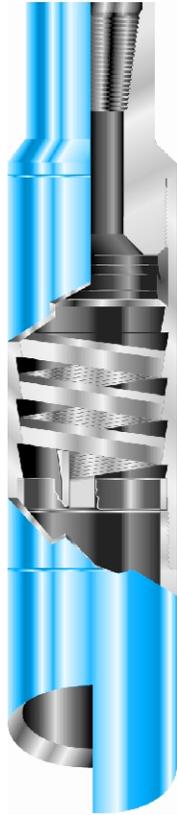


Fishing Tools

Fishing Tools



Series 150 Overshot with Basket Grapple



Series 150 Overshot with Spiral Grapple



Itco-Type Releasing Spear with Bull Nose Nut



Itco-Type Releasing Spear with Sub Type Nut

National Oilwell Varco has manufactured the world's most dependable and comprehensive family of fishing tools for more than 75 years. In 2000, National Oilwell Varco acquired the Bowen® product family. Each tool in the line of equipment manufactured by National Oilwell Varco is engineered and designed to perform a specific operation. Since several fishing tools are generally installed in a fishing string, each tool is engineered to enhance and complement the performance of the others to provide the most efficient solution to the full range of fishing needs. National Oilwell Varco has spent decades refining our product designs, resulting in a broad selection of fishing tools that have become industry standards. Innovative engineering, advanced technology, and experienced manufacturing make National Oilwell Varco fishing tools a more efficient and cost-effective solution for a wide range of applications.

ENGINEERING SERVICES:

National Oilwell Varco provides customized solutions to your specific application. When a special tool is required, our experienced engineering staff is available to evaluate your application and provide a customized cost-effective solution.

SERIES 150 OVERSHOT:

National Oilwell Varco's Series 150 Releasing and Circulating Overshot is the strongest tool available to externally engage, pack-off, and pull a fish. The basic simplicity and rugged construction with which it is designed have made it the standard of all external catch fishing tools. The overshot is composed of three outside parts: the top sub, bowl, and guide. The basic overshot may be dressed with either of two sets of internal parts, depending on whether the fish to be caught is near maximum size for the particular overshot. The most common accessories used for the Series 150 Overshot are extension subs, oversize guides, wall hook guides, milling shoes, and lock rings.

ITCO-TYPE RELEASING SPEAR:

Itco-Type Releasing Spears provide a dependable, inexpensive, and simple means of engaging a fish internally. These spears assure positive engagement, easy release from the fish when desired, and easy re-engagement after the spear has been released.

The Itco-Type Releasing Spear consists of a mandrel, grapple, release ring, and nut. The mandrel may be obtained in either a flush type or a shoulder type. Mandrel top connections are furnished to order.

The Nut can be obtained as a plain bullnose guide or with a pin connection for the attachment of other tools below the spear.

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 **NATIONAL OILWELL VARCO**

Fishing Tools



Super II Fishing Jar



Super II Intensifier



Lubricated Bumper Sub

SUPER II FISHING JAR:

National Oilwell Varco's Super II Fishing Jar is a straight-pull operated jar, which employs a patented combination of proven principles of hydraulics and mechanics. This jar is simple to assemble and its unique design allows for easy operation. No setting or adjusting is required before going into the hole, or after the fish has been engaged. The Super II Fishing Jar is designed to permit the operator to easily and simply control the intensity of the jarring blow within a wide range, from very light impact to a blow of very high impact. The unique impact control of the jar is made possible by the meeting action of the patented cone assembly.

SUPER II INTENSIFIER:

The Super II Intensifier is run in conjunction with the Super or Super II Fishing Jar. Its function is to supply intensified impacts during jarring operations.

The Super II Intensifier incorporates two new features that greatly improve its performance and dependability. Its design allows for a constant working oil volume during operation. The second feature is the design for thermal compensation. This patented design allows oil to move into an area in the tool when elevated temperatures cause the oil to expand. When the temperature is lowered the oil automatically returns to the oil chamber in the tool.

This unique system assures full stroke length at rated load, and eliminates the danger of over-pressure due to thermal expansion of the fluid, while also compensating for any minor leakage, which may occur.

LUBRICATED BUMPER SUB:

National Oilwell Varco Lubricated Fishing Bumper Subs are engineered to withstand sustained bumping action in severe fishing and deep workover operations.

The tools permit a 10-inch to 18-inch vertical stroke, either upward or downward, that is always available whether rotating or not. Tools with strokes greater than 18 inches up to 60 inches are available on request at extra cost.

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