

Drilling Tools



 **ILTOOLS**

a member of the heat-group

The Solution for Your Success

CONTENTS

INTRODUCTION	4
HAMMER UNIONS.....	5
L-T-FORM FITTINGS	6
SUBS, CROSSOVERS	7
ON-OFF CONNECTORS	8
SHOCK ABSORBERS.....	9
STABILIZERS.....	10
LIFTING BAIL.....	11
SLIP INSERTS	12
CUP TESTERS	13
CASING SCRAPER	14
CIRCULATING SUB.....	15
SAFETY JOINTS.....	16
NOTES.....	17

INTRODUCTION

LOG Oiltools develops and manufactures different tools and fittings used in drilling and workover.

The material grade and strength of the manufactured products meet the requirements of API and EN and other specific requirements of end users.

The quality of our tools are assured by our quality management system and by the modern manufacturing processes like forging, heat-treatments, surface hardening processes and CNC machining.

The company is equipped with all gauges needed for the machining and control of the machined threads in compliance with API standards and licensees.

LOG Oiltools Ltd. and its predecessors like LOG Co. and DKG Co. during the last 70 years produced thousands of different drilling and workover tools and used successfully in the oil-fields.

We would like to help you in your beneficial choice, with our new edition of drilling tools catalogue, to get the most suitable ones.

Sincerely yours,



Zsolt Vékási
managing director



ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFICAT ◆ СЕРТИФИКАТ ◆ 認 証 書 ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFICAT ◆ СЕРТИФИКАТ ◆ 認 証 書 ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFICAT ◆ СЕРТИФИКАТ ◆ 認 証 書 ◆



CERTIFICATE

The Certification Body
of TÜV SÜD Landesgesellschaft Österreich GmbH
certifies that



has established and applies
a Quality Management System for

**Engineering, Distribution, Assembling and Service for
Gas/Oil Exploration and Production Equipment**

An audit was performed, Report No. **153634**
Proof has been furnished that the requirements
according to

ISO 9001 : 2008

are fulfilled. The certificate is valid in conjunction
with the main-certificate until **2018-09-14**
Certificate Registration No. **Q1530434 / 07**

Knut Kiefer
Vienna, 2016-05-19



Certification Body
of TÜV SÜD Landesgesellschaft Österreich GmbH
Campus 21 Europaring A04301, A-2345 Businesspark Wien Süd, Austria

TUV®



HAMMER UNIONS

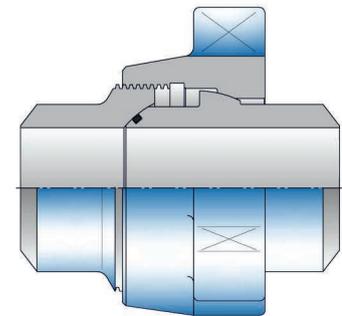
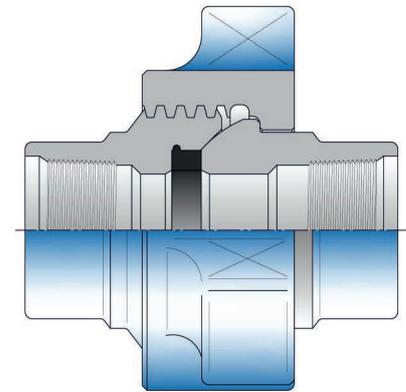
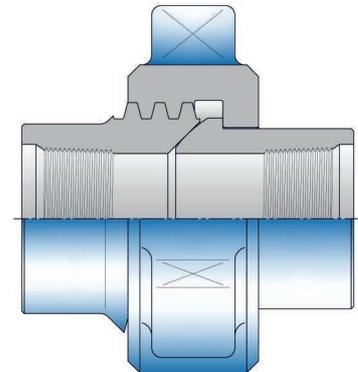
Hammer unions are used to couple the pipe lines which often need to be taken apart safely and quickly. Sealing is given by the fitting part of the connecting elements (cone and spherical surfaces). At higher pressures an O-ring (made of rubber) between the packing elements increases the safe and reliable functioning of the sealing.

Size: 1/2" - 4 1/2"
 Forms: 1003, 1502
 Pressure: 2000 to 10000 psi

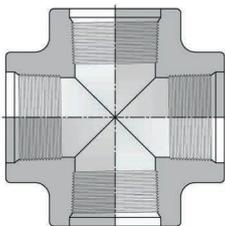
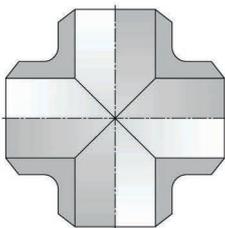
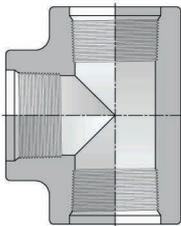
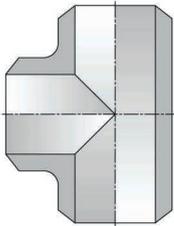
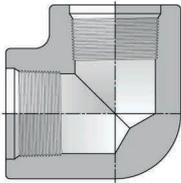
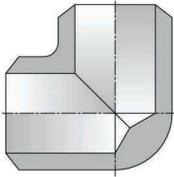
Connection: - box - box threaded
 - box - pin threaded
 - welding connection

Material:

- manufactured from quality steel meeting ASTM and/or AISI standards
- UNIONS working in H2S environment per NACE MR1075



L-T-FORM FITTINGS



The section pipes with welding box end can be built in the pipe line by means of a welding process. The line pipe fittings are element of high - pressure pipe lines. They can be used to transport water, steam, air and hydrocarbons (propane, butane, gas, oil etc.). Media can be gaseous or fluid.

Threaded fittings are made with LP threads.

Appearance: - T - form
 - L - form (elbow fitting)
 - cross-shaped fitting

Size: 1/4" - 4"

Pressure: up to 700 bar

Material:
 manufactured from quality steel meeting
 ASTM and/or AISI standards

SUBS, CROSSOVERS

LOG Oiltools offers a broad range of drill pipe subs, guide subs, tubing subs, extension subs, subs and crossovers. Subs are used for joining, extending and sealing the pipes in different types and dimensions for drillings and/or for production, manufactured with different thread types and design.

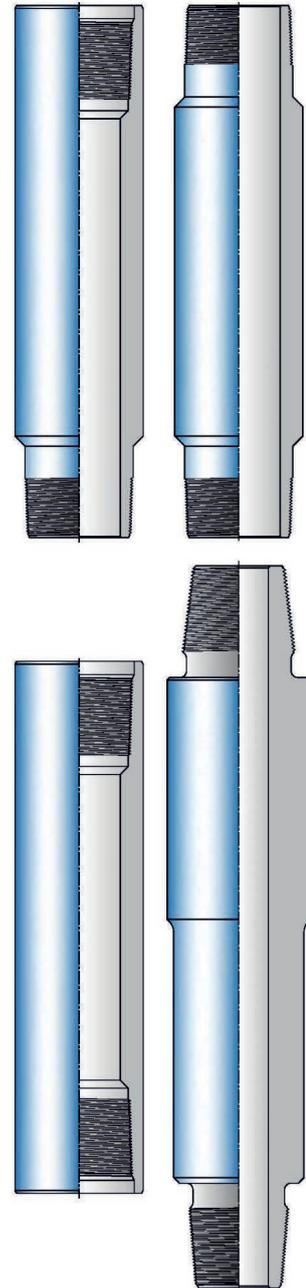
Dimensions: 1,05" - 9 5/8"

Groups: - pin x pin,
 - pin x box,
 - box x box

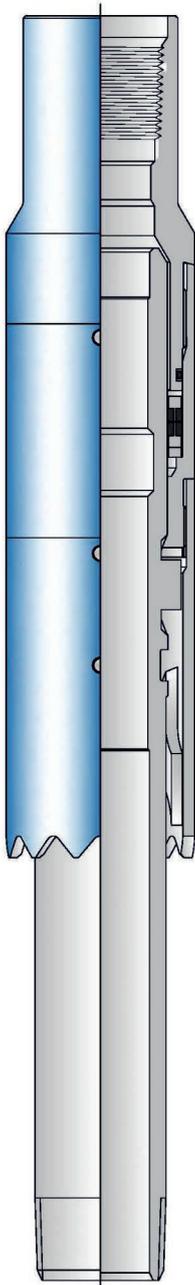
Constructions: - left hand thread
 - right hand thread
 - shouldered pin
 - shouldered box
 - with rubber or teflon ring

Available thread types:

- Non Upset tubing
- External Upset tubing
- Rod connection thread TG
- Regular - tool joint thread
- Full hole - tool joint thread
- Line Pipe thread
- Short casing pipe thread
- Long casing pipe thread
- ACME, Stub ACME threads
- Metric threads
- Butress thread
- Tenaris Hydril Blue threads
- Other premium threads



ON-OFF CONNECTORS



The On-Off Tool is a tubing disconnect device that has an internal blanking plug locking profile with seal bore for utilizing flow control equipment. The Overshot has a box looking up which connects to tubing string and a pin looking down off the Stinger which connects to the packer. The On-Off Tool has two basic components that comprise the Overshot. The Top Sub which contains two bonded rubber steel seals and the Jay Latch which has a J Slot configuration to locate and latch the On-Off Tool Stinger. The Jay Latch also has a wash over shoe configuration which allows cutting through debris. The Overshot automatically Jays up on Stinger when lowered into well.

Item is designed to isolate a lower zone or to disconnect the tubing without releasing or disturbing the packer.

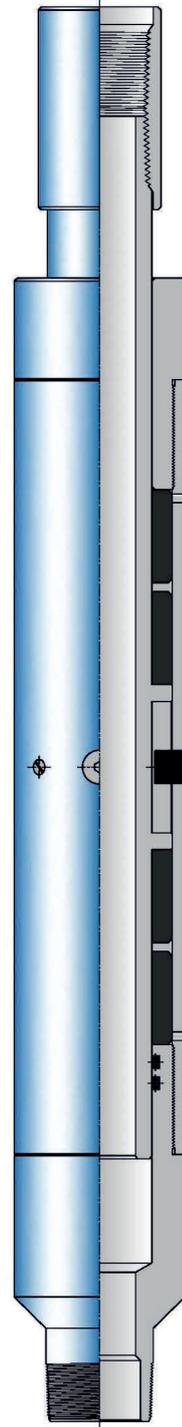
Construction:

- Standard Left Hand Release
- Automatic Jay Up
- Bonded Seals
- All Nipple Profiles Available for Stinger
- Full Open or Solid Stinger Available
- Wash over shoe on all Models

SHOCK ABSORBERS

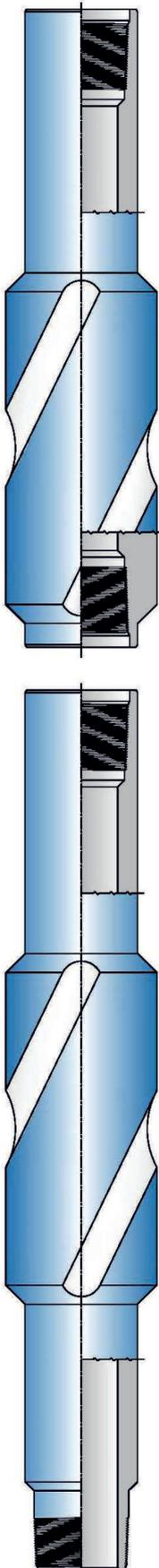
The Vertical Shock Absorber is designed to run between the Packer and TCP guns. The purpose of the VSA is to protect delicate electronic gauges and mechanical tools from the severe shocks associated with the detonation of the TCP guns.

The VSA protects electronic and mechanical pressure gauge. The tool is rigid until guns fire.



STABILIZERS

Integral Blade Stabilizer are one piece rotating stabilizer which can be placed near bit or up the drill string. It is a one piece construction manufactured from high strength alloy steel (nonmagnetic steel optional). It prevents differential sticking of the drillstring by stabilizing the BHA and keeping drill collars and drill pipes away from the borehole wall. This reduces vibration, drill pipe whirl, and furthermore, the stabilization maintains drilling trajectory whether drilling straight, horizontal, or directional wells.



LIFTING BAIL

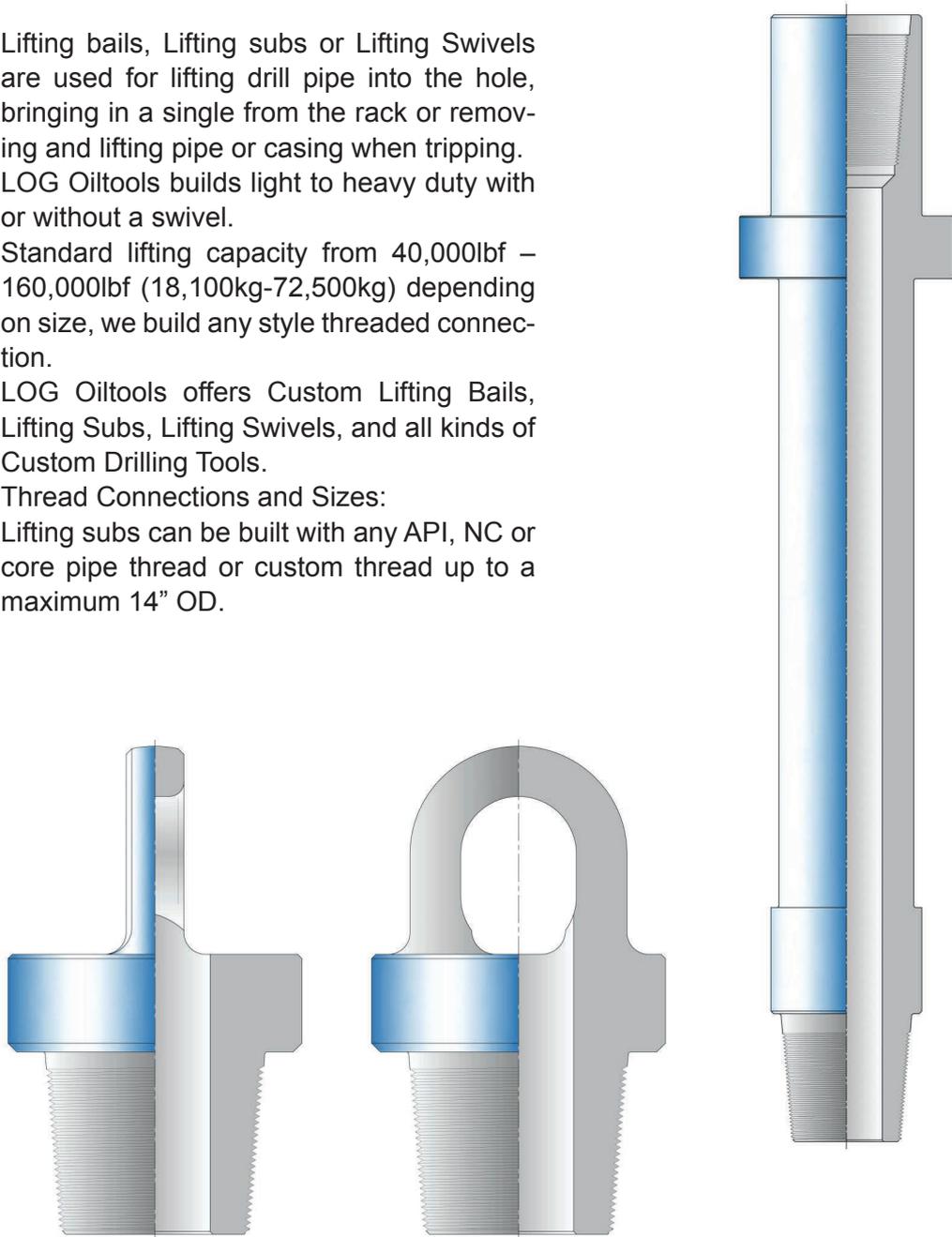
Lifting bails, Lifting subs or Lifting Swivels are used for lifting drill pipe into the hole, bringing in a single from the rack or removing and lifting pipe or casing when tripping. LOG Oiltools builds light to heavy duty with or without a swivel.

Standard lifting capacity from 40,000lbf – 160,000lbf (18,100kg-72,500kg) depending on size, we build any style threaded connection.

LOG Oiltools offers Custom Lifting Bails, Lifting Subs, Lifting Swivels, and all kinds of Custom Drilling Tools.

Thread Connections and Sizes:

Lifting subs can be built with any API, NC or core pipe thread or custom thread up to a maximum 14" OD.



SLIP INSERTS



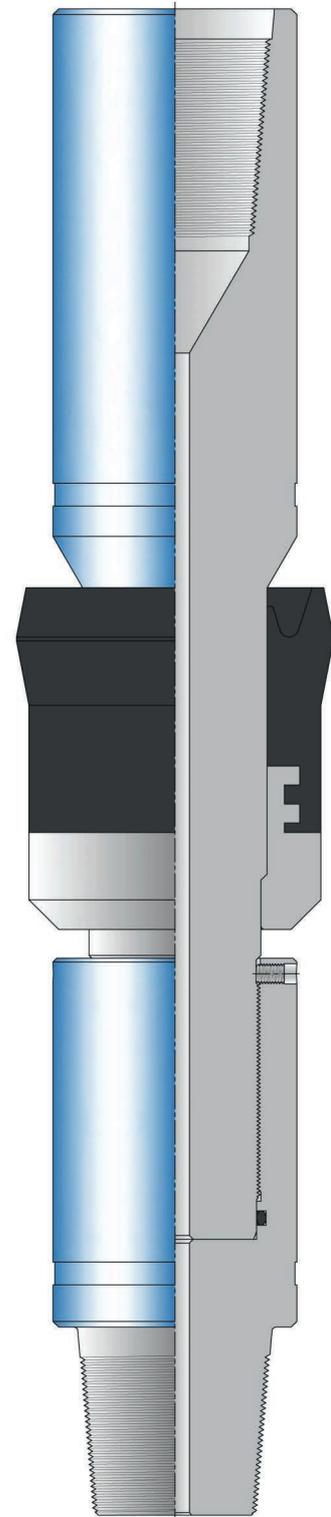
LOG Oiltools has valuable experience gained by many decades of die and insert specialization. LOG dies and inserts are accurately machined to exacting tolerances using state of the art CNC machinery. All dies and inserts are then heat treated to specific standards to provide the best resistance to wear even in the harshest environments. Consistent quality and proper fit are guaranteed by extensive testing and gauging programs utilized by LOG.

LOG Oiltools manufactures dies, inserts, and spare parts for a wide variety of oilfield handling tools, including:

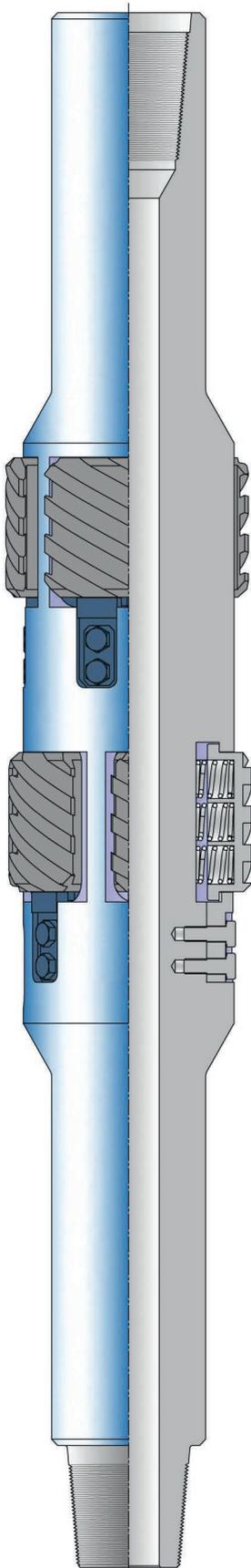
- Safety clamps
- Drill collar slips
- Casing slips
- Slip-type elevators
- Tubing elevators
- Tubing tongs

CUP TESTERS

Cup tester assemblies are designed to be attached to the drill string and then lowered into the casing beneath the wellhead to pressure test the blowout preventer stack and the wellhead. When the cup tester is lowered into the casing beneath the wellhead, pressure is applied to either a test pump, or by hoisting the cup after filling the hookup with water. The latter method is fast and accurate. The cup tester assemblies are rated to the API standard mill test pressure for casing sizes up to 10,000 psi. Cup tester has the sizes, pressure ratings and connections for every single one of your jobs. Cup tester assemblies come standard with internal flush (IF) connections. Other connections are available at an additional cost.



CASING SCRAPER



The Casing Scraper is used to remove mud or cement sheath, embedded bullets, perforation burrs, rust, mill scale, paraffin, and similar substances from the inside walls of the casing. The importance of keeping this vital “working surface” clean and smooth is readily apparent when it is realized that nearly all subsequent operations in the well are affected in one way or another by the condition of casing ID.

Operation

Standard connections on the Casing Scraper are Reg pin and box. These connections allow installation of the scraper in the drillstring between the drill bit and bit sub. The drill bit is installed below the scraper to serve as a guide and prevent plugging the circulation hole through the scraper. This tool arrangement also allows for both the drillout and sheath removal of any previous cement retainer operations.

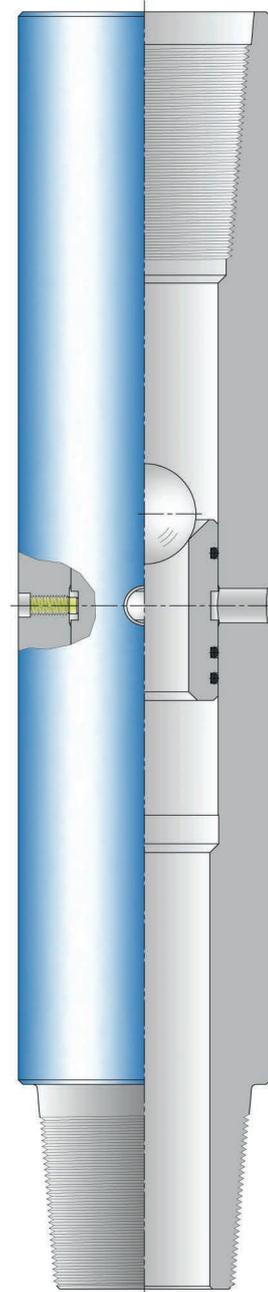
For maximum scraping efficiency, it has been found desirable to run the scraper completely through the restricted section without rotation, then pull back up and make a rotary run through the section. This cleans most of the scale, bullets, cement, and other extraneous materials off the casing wall. Rotating the tool as the string is lowered causes the scraping surfaces to shear off any remaining burrs or obstructions missed on the first pass with the scraper. The scraper is rerun to check for smoothness (especially if preparing to set a packer) before tripping out of the hole. If the weight indicator does not show any irregularities, the casing should be clean.

Features/Benefits

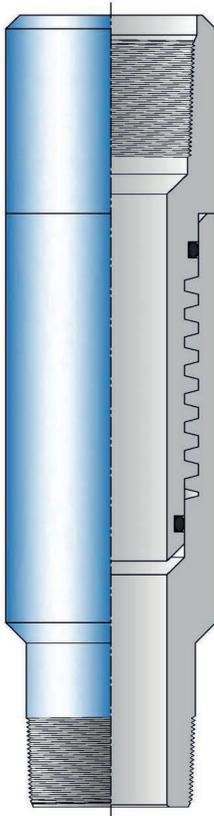
- Carburized scraping edges on the blades provide endurance and maximum service
- Cleaning can be accomplished by either rotation or reciprocation as a result of blade arrangement in the body that gives full 360° contact with the casing ID
- Each blade is cut with left-hand helical grooves to allow the tool to scrape down inside the casing

CIRCULATING SUB

The Drop Ball Circulating Sub is designed to run immediately above or below the BHA. Activation is accomplished by dropping the S.S. Ball from the surface and applying pump pressure. This causes the shear pins in the sub to shear, allowing the Sleeve to drop from its primary position to its secondary position, opening the two sub ports which divert the flow to the annulus.



SAFETY JOINTS



The Drill Pipe/Tubing Safety Joint is designed for the safe and dependable release from drilling, fishing, tubing, washover, or testing strings should they become stuck. The simple design of the Drill Pipe/Tubing Safety Joint has no release ring, which allows for quick disengagement procedures of the tool.

The Drill Pipe/Tubing Safety Joint comes in a variety of popular sizes for drill pipe/tubing strings. LOG Oiltools will also design and manufacture safety joints to meet a customer's specific need. The Drill Pipe/Tubing Safety Joint is made up of a box section and a pin section. Each Safety Joint is designed to withstand internal and external pressures through the use of O-ring seals above and below the threads.

The coarse thread design of the Drill Pipe/Tubing Safety Joint is resistant to wedging or loosening of the tool during operation. The Safety Joint's design allows for the transmission of torque in the left-hand or right-hand direction.

All product and brand names are registered marks of LOG Oiltools Ltd. Unless otherwise noted.
AFLAS® is a registered trademark of the Asahi Glass Co.,
Kalrez®, Teflon® and Viton® are registered trademarks of the DuPont Co.,
PEEK TM is a trademark of VICTREX®.
Ryton® is a registered trademark of Chevron Phillips.

3rd edition, 10/2010

Distributor / Sole Agent

Headquarter:

LOG OILTOOLS Kft. HUNGARY
H-8800 Nagykanizsa, Erdész u. 28.
Tel.: (+36 93) 537 140 • Fax: (+36 93) 537 142
E-mail: info@logoiltools.hu • <http://www.logoiltools.hu>

A member of the

The logo for Heat Group features the word "heat" in a bold, red, lowercase sans-serif font. Above the letters "ea" is a red, wavy graphic element resembling a flame or a stylized wave. Below "heat" is the word "GROUP" in a smaller, white, uppercase sans-serif font.

heat
GROUP