

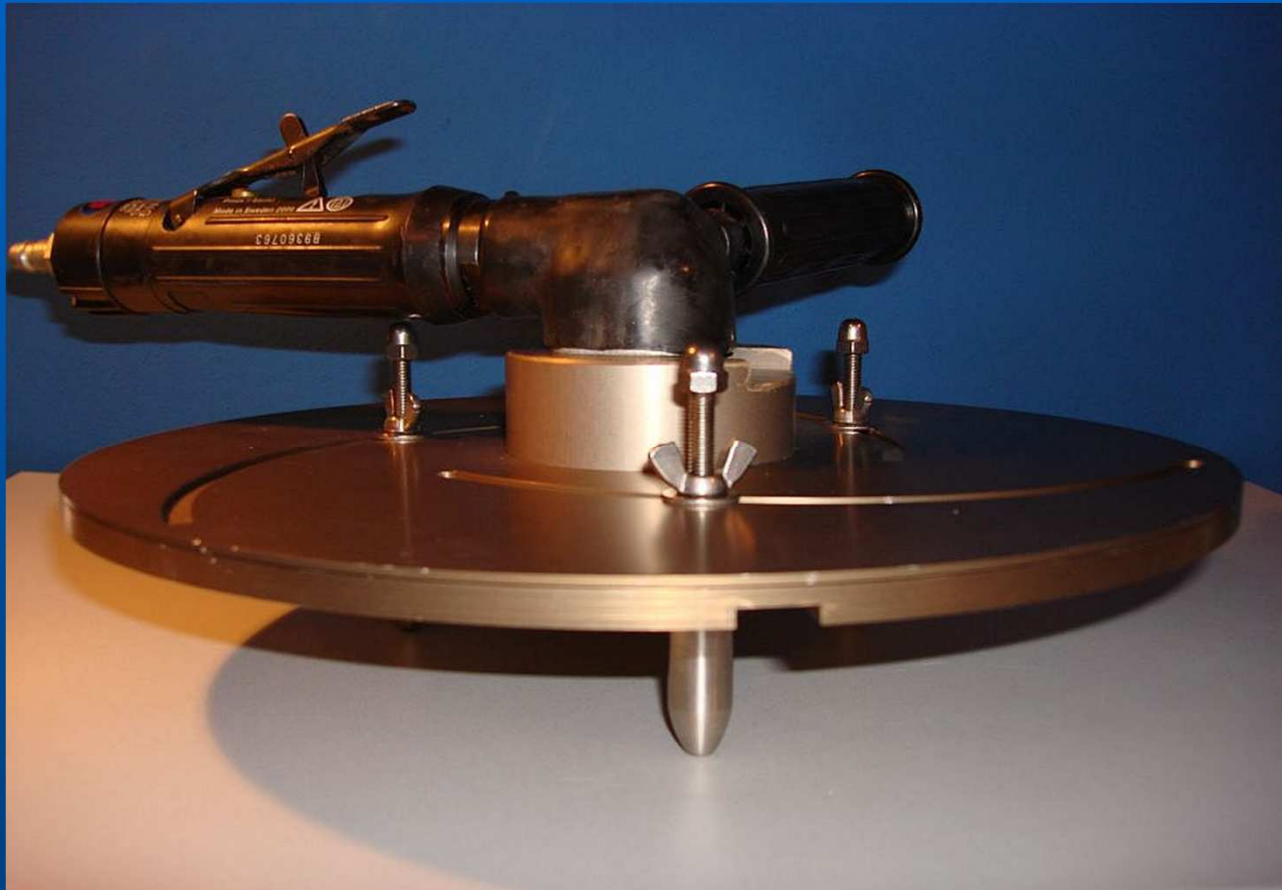
**JANUS OILFIELD TECHNOLOGY s.r.l.**

**The Company that  
developed and patented  
the **DOPE DIFFUSER****

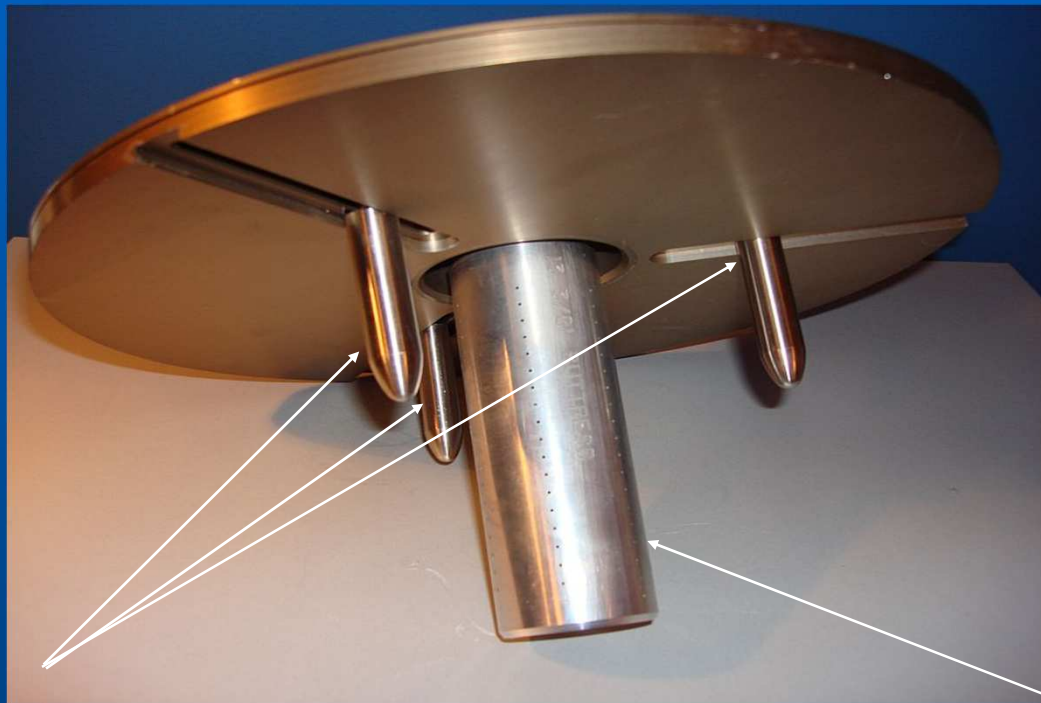
# THE DOPE DIFFUSER



# TOOL SPREAD



# TOOL SPREAD



Guide pins

Diffusing  
element

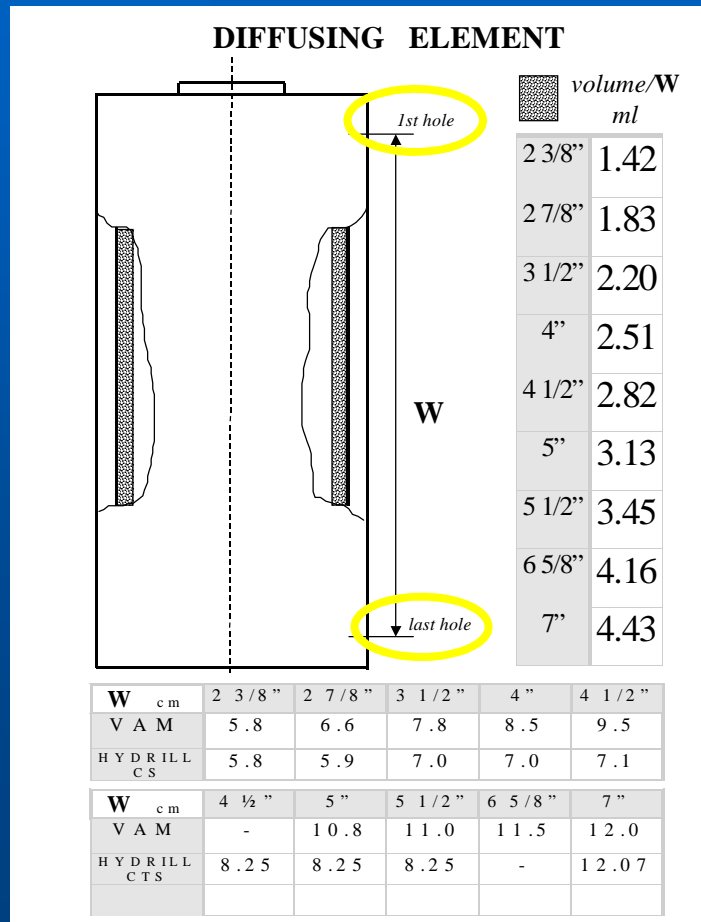
# TOOL SPREAD

Tool Spread Tubing  
and Drill Pipe

Tool Spread Casing



# Diffusing Elements for all thread Types and Size



# Description

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- The **Dope Diffuser** is used in running completion to obtain an even distribution of a weighed quantity of the **COMPOUND** on the threads
- It is also particularly suitable for the drillpipe, giving unquestioned logistic and economic advantages

# OPERATION

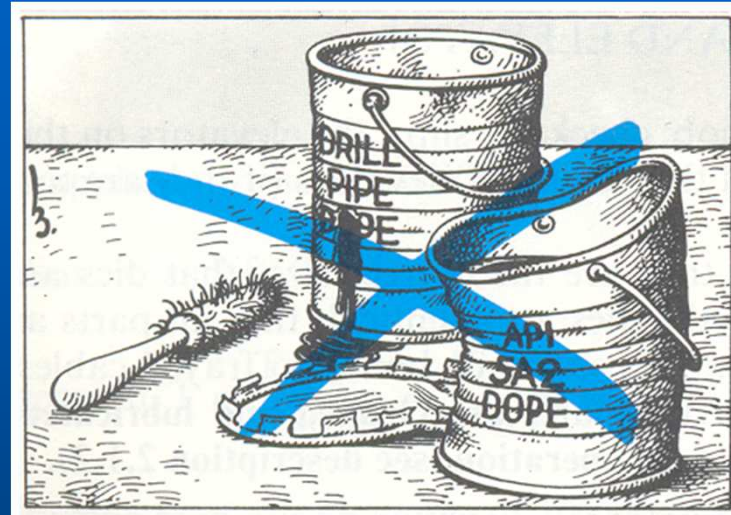
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- Once the Tool Spread is positioned in the box only a few seconds are needed for even calibrated distribution of the **compound** on the surface of the threads



# Failure analysis (1 of 3)

Systematic use of the **compound** and following the procedure ensures:



- ❖ That Human error in using the **compound** in the wrong way is reduced to zero when there are a number of buckets on the rig floor.

# Failure analysis (2 of 3)

- ❖ Application using a brush gives uneven distribution and allows contamination: with consequent seizure and loss of the thread ;
- ❖ The **Dope Diffuser** protects the **compound** from foreign bodies as it is enclosed in the distributor and eliminates the risk of brushes falling accidentally down the well.

# Failure analysis (3 of 3)

- ❖ The **compound** has a lubricating power corresponding to a precise screwing torque.
- ❖ NEVER add oil or diesel fuel to improve the spreading characteristics as this changes the power of the lubricant.
- ❖ The **Dope Diffuser** mixes the compound eliminating the gravity separation of heavy metals from oil and grease.

# Economic analysis

With the **Dope Diffuser** savings are made:

- The quantity is measured out for the connection only and excess application as in the traditional method is eliminated.
- The excess that usually falls down the well creates blockages that make it difficult (and expensive) to send down work-over or drilling equipment.

# Safety Analysis

The **compound** no longer SPILLS over the rig floor because the entire application process is enclosed;

This keeps the work area clean which is of basic importance for safety and stops the operational personnel from slipping .

# Environmental Impact Analysis

The elimination of spills is also essential for respect of the environment;

The **Dope Diffuser** prevents anything from the greasing process from falling into the sea from Off Shore installations and into the ground from On Shore installations.

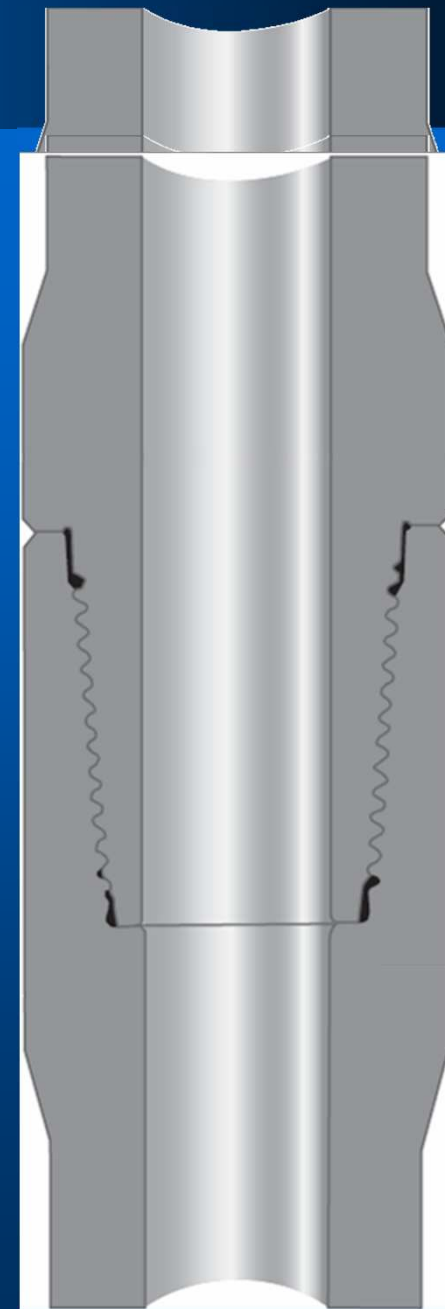
# Thread Compound Background (1 of 2)

Historically the **compound** used both in drilling and production consisted of lubricating grease made from petroleum and containing heavy metals such as LEAD, ZINC, COPPER for:

- 1) Protection of metal to metal contact and seizing up in situations of high stress;
- 2) Secure seal against high internal pressures.

# Thread Compound Background (2 of 2)

The **compound** OCCUPIES the spaces between the tips and roots of the threads AND INFILTRATES between the contact surfaces of threads and shoulders, under screwing torque before and after drilling.





# THE DOPE DIFFUSER

*Thank You For Watching*

*Work Safely And Comfortably*

JANUS OILFIELD TECHNOLOGY SRL

FURTHER INFORMATION...

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DOPE DIFFUSER