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1 IDENTIFICATION DATA

Description: BALL VALVE 2 3/8 NUE x 700 bar

Manufacturer: SC CONFIND SRL

Code: P4995-00

2 THE MAIN PURPOSE OF DEVELOPING THE NEW EQUIPMENT



The aim of developing the new product was to replace the existing valve 2 3/8NUE x 700bar, that used in an environment of crude oil and salt water was not always satisfying the expectations of the user. The replaced valve was used mainly with the cementing unit ACF 350 ÷ 700.

Confind wanting to extend and improve the use of the valve, has designed and produced a new valve with the same sizes, working pressure and identical handling system, that replaces the old one.

The corrosion issues were eliminated by use of stainless steel parts for the components exposed to corrosion and the handling restrictions by changing constructive solution. The new product can be now operated under a pressure up to 200 bar.

3 APPLICATIONS

The ball valve can be used to:

- distribution systems of the crude oil and salt water
- circulating head
- cementing head
- salt water systems
- manifold systems
- ACF cementing units

4 TECHNICAL DATA

Bore diameter	2 in
Threaded connection	Box 2 3/8 NUE - Box 2 3/8 NUE or Box 2 7/8 NUE - Box 2 7/8 NUE
Nominal pressure	700 bar (70MPa)
Testing pressure of the body (the test was carried out with the existing caps fixed onto the body)	1050 bar (105MPa)
Handling under pressure	max. 200 bar (20MPa)
Operating temperature	-29 °C ... +82 °C

Open/Close handling is made without pressure in case of use up to the nominal pressure.

5 | BENEFITS

The ball valve has the following advantages:

Corrosion resistance

Handling capability up to a 200 bar pressure

Automatic adjustment of seat contact sphere in case of wear

Fast assembly/disassembly

Possibility of system ventilation through the ball valve

Fast replacement of the wear components (ball; seat) due to the simple construction

Smaller overall sizes compared to similar products of other manufacturers (FMC, PETAL, FEPA)



6 RECOMMENDATIONS FOR USE

IN OPERATION IT IS RECOMMENDED TO:

- Use of appropriate tools for assembling/disassembling.
- Using the existing lever for handling
- Do not exceed the nominal pressure
- Check before mounting the connection threads of the other components in the assembly (nozzles, pipes).
- Check before installation if it's easy to handle. If there are limits on the handling then will not continue to mount.
- Transport the valve in conditions to avoid damage.
- Handle using a crane. It's acceptable the handling by two operators within the safety rules.
- Wash and clean after use, then properly store.
- Do not throw the product during handling.
- Store the product in covered places, on a platform of wood or metal. It is forbidden to store directly on the ground.
- Reapply the greasing protection from 60 to 60 days, if longer storage time is required.
- Check the paint protection and if necessary remake the painting from six to six months, if longer storage time is required.

