

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Valve**

with type designation(s)
3" 5000 PSI RESET RELIEF VALVES
P/N'S 130348, 130357, 130363, 130362, 13067

Issued to

OTECO
HOUSTON, TX, United States

is found to comply with
DNV-OS-E101 Drilling Plant October 2013
and Det Norske Veritas AS' understanding of the implementation and interpretation of:
PSA's "Regulations relating to design and outfitting of the facilities etc. in the petroleum
activities" (THE FACILITIES REGULATIONS), Last amended 16 December 2014, Ch.VIII

Application :

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This Type Approval Certificate is three pages long and replaces D-4192, issued 2011-05-11

This Certificate is valid until **2019-06-30**.

Issued at **Houston** on **2015-06-23**

for **DNV GL**

DNV GL local station: **Approval CMC – Houston**

Approval Engineer: **M. Kevin Mandeville Jr.**

Christian Nilsen
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Product description

3" 5000 psi Reset Relief Valves (P/N's 130348, 130357, 130363, 130362, 130367)

Application/Limitation

Design Parameter	Value	Equivalent
Minimum Design Temperature	-20°F	-29°C
Maximum Design Temperature	250°F	121°C
Maximum Working Pressure	5,000psi	345bar
Test Pressure	7,500psi	517bar
Type of Service	Standard	

Type Approval documentation

[illegible]

Tests carried out

Type Testing is not required for Type Approval renewal.

Marking of product

For traceability, the following marking is to be carried out on each product:

Job Id: **262.1-011317-2**
Certificate No: **TAD0000001**

1. Part Number
2. Serial No.
3. Manufacturer's Name or Trademark
4. Additional marking at the manufacturer's discretion

Certificate Retention Survey

For retention of the Type Approval Certificate, DNV GL's surveyor shall perform a survey every second year in accordance with DNV GL's Standard for Certification No. 1.2.

Other Conditions/Comments

- Acceptance testing for individual valves to comply with the following three points at a minimum:
 - A) Sub/Body hydrostatic test @ 1.5 X C.W.P. for 15 minutes. No visible leakage.
 - B) Seal hydrostatic test @ 95% or greater C.W.P. No visible leakage.
 - C) Calibration value acceptance within +-10% of setting.
- DNV GL Ref. Project No. PP136053.

END OF CERTIFICATE