DNV·GL

Certificate No:
TAD00000W5
File No:
523.85
Job Id:
262.1-009543-3

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Valve

with type designation(s)
2", 3", 4", 5" 7500 psi DM Gate Valves

Issued to
CAM Distributed Valves - OKC
Oklahoma City, OK, USA

is found to comply with
DNVGL-OS-E101 – Drilling facilities, Edition January 2018
DNVGL-SI-0166 – Verification for compliance with Norwegian shelf regulations, Edition July 2017

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL when accompanied with a DNV GL Product Certificate (PC).

This Certificate is valid until **2023-10-14**.

Issued at **Houston** on **2018-10-15**

DNV GL local station: **Certification & Inspection Services**

for **DNV GL**

Approval Engineer: **Pari Natarajan**

Christian Nilsen
Team Lead

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.

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Reference standards

- ASME Boiler and Pressure Vessel Code, Section VIII, Division 2, 2017

Product Descriptions

BOM Number	Rev.	Description
J025103-2572140	06	GV 2 WE DEM DM 7500 ASNIT/410 GRP2
J025103-3772140	01	GV 2 RJ DEM DM 7500 ASNIT/410 GRP2
J025300-2572140	02	GV 3 WE DEM DM 7500 ASNIT/410 GRP2
J025300-3772140	01	GV 3 RJ DEM DM 7500 ASNIT/410 GRP2
J025107-3572140	03	GV 4 WE DEM DM 7500 ASNIT/410 GRP2
J025107-3772140	03	GV 4 RJ DEM DM 7500 ASNIT/410 GRP2
J025109-4572140	06	GV 5-1/8 WE DEM DM 7500 ASNIT/410 GRP2
J025109-3772140	02	GV 5-1/8 RJ DEM DM 7500 ASNIT/410 GRP2

- 2”, 3”, 4”, 5” 7500 psi DM Gate Valves, including welded and API RTJ end connections for use in High Pressure Mud Systems. These valves are not designed or intended for use in wellbore barrier applications. Other applications may be accepted at the DNV GL Surveyor’s discretion.

Application / Limitation

Design Parameter	Value
Minimum Design Temperature	-20 °F (-29 °C)
Maximum Design Temperature	350 °F (177 °C) See note
Maximum Working Pressure	7,500 psi (517 Bar)
Maximum Test Pressure	11,250 psi (775.7 Bar)
Service	Standard (High Pressure Mud System)

Note: With FKM seat and seals

Type Approval Documentation

Tests carried out

Reviewed the applicable design verification test records.

Marking of product

For traceability, the product shall be marked at least with manufacturer name or trademark, part number and serial number.

Certificate Retention Survey

For retention of the Type Approval, DNV GL’s surveyor shall perform a survey every second year in accordance with DNV GL Type Approval Scheme DNVGL-CP-0338, October 2015 Edition.

Other conditions/ comments

- Procedures related to testing, welding, NDT, etc. are to be reviewed/approved by DNV GL’s local surveyor.
- Fabrication records are to be maintained in accordance with DNVGL-OS-E101 Ch.3 Sec. 3 [2].
- When DNV GL Product Certification is required, each product is to be surveyed during fabrication in accordance with the requirements for Category I equipment as defined in DNV GL’s Offshore Standard DNVGL-OS-E101.
- This certificate replaces TAC D-6254.

End of Certificate