DNV·GL

Certificate No:
TAD00000MH

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Valves

with type designation(s)
1", 1.5", 2" and 3" Dart Check Valves
Part Numbers: See Page 2

Issued to
FMC Technologies, Inc.
Stephenville, Texas, USA

is found to comply with
DNVGL-OS-E101 – Drilling plant, Edition July 2015
DNVGL-SI-0166 – Verification for compliance with Norwegian shelf regulations, Edition July 2015

Application :

Max Working Pressure: 15,000 psi
Max Test Pressure: 22,500 psi
Temperature Class: -20 to 240 °F
Service: General
Performance Requirement: 1

Issued at **Houston, Texas** on **2017-03-01**
This Certificate is valid until **2022-02-28**.
DNV GL local station: **Approval CMC**

Approval Engineer: **Arturo Rodríguez P.**

for **DNV GL**

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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References

- API Spec 6A, Specification for Wellhead and Christmas Tree Equipment, 20th Edition
- Project No. PP161030-9, PO 4700196835, Attn. Andrew Huf

Part Descriptions and Numbers

Part Description	Part No./Rev.
1” 15 ksi Dart Check Valve Assembly	P536118/B
1.5” 15 ksi Dart Check Valve Assembly	P525269/B
1.5” 15 ksi Dart Check Valve Assembly, Reverse Flow	P523811/B
2” 15 ksi Dart Check Valve Assembly	P510771/F
3” 15 ksi Dart Check Valve Assembly	P510773/F

Type Approval Documentation

Tests Reports

Title	Part No.	Test Serial No.
1” 15 ksi Dart Check Valve Test Chart	P536118	012115A10287
1.5” 15 ksi Dart Check Valve Test Chart	P525269	112816A10223
1.5” 15 ksi Dart Check Valve Reverse Flow Test Chart	P523811	032013A10210
2” 15 ksi Dart Check Valve Test Chart	P510771	112316A10126
3” 15 ksi Dart Check Valve Test Chart	P510773	101515A10140

Fabrication Procedures

- Procedures related to NDE, welding, testing, marking etc shall be reviewed by DNVGL Surveyor.

Marking of Products

- For traceability, the product and databook shall be marked at least with part and serial numbers.

Periodical Assessments

- For retention of TAC, periodical assessments shall be carried out bi-yearly.

Comments

- This TAC replaces TAC No. D-4684.