

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Diaphragm Valve**with type designation(s)
400E, 400Y, 700E

Issued to

Bermad Inc.
Houston, United States

is found to comply with

Det Norske Veritas' Standards for Certification 2.9 No. 5-794.40
Det Norske Veritas' Rules for Classification of Ships
Offshore Standard DNV-OS-D101, Marine and Machinery Systems and Equipment**Application :****Diaphragm valves approved for use in fire protection water and foam systems.****Blast loads considered according to DNV-OS-A101 (April 2011)Section 2 Table D1 Area 6.**
Blast over pressure: 4 bar
Dynamic drag pressure: 2.05 bar

Type:	Temperature range:	Max. working press.:	Sizes:
400E	max 90 °C (see cert.)	20 bar	DN40 to DN250 (1.5" to 10")
400Y	max 90 °C (see cert.)	25 bar	DN40 to DN250 (1.5" to 10")
700E	max 90 °C (see cert.)	25 bar	DN40 to DN250 (1.5" to 10")

This Certificate is valid until **2019-06-30**.Issued at **Høvik** on **2015-03-13**DNV GL local station: **Houston**Approval Engineer: **Simon Ratcliffe**for **DNV GL**

Digitally Signed By: Marveng, Marianne Spæren

Location: DNV GL Høvik, Norway

Signing Date: 14.03.2015

Marianne Spæren Marveng
Head of Section