

Certificate No: P-15187
File No: 794.11
Job Id:

262.1-016084-3

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

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.