

DNV GL Certificate No.: FSPA-019-10127395-TVS
 Place and date: Houston, 8 July 2019
 Revision No.: 0

FUNCTIONAL SAFETY CERTIFICATE

DNV GL Certificate No.:
 FSPA-019-10127395-TVS

Initial date:
 8 July 2019

Valid:
 8 July 2019 – 8 July 2024

This certificate consists of 5 pages

This is to certify that the Functional Safety Capability of the

Relief Valve Model 6820

Manufactured by:

Total Valve Systems, 1300 E. Memphis St., Broken Arrow, OK 74012, USA

have been assessed by **DNV GL USA, Inc.**, and found to confirm to the Functional safety standards and sub-clauses:

IEC 61508:2010 PART 1, CLAUSE 6
IEC 61508:2010 PART 2, CLAUSE 7

When assessed using;
 The CASS Scheme for Functional Safety Capability

The Product and its associated data contained herein can be considered for use in the design of safety functions up to and including

SIL 2*

When used in accordance with IEC 61508 and the scope and conditions of this certificate.

*The Safety Integrity Level (SIL) relates to the complete safety System, not the individual elements, therefore this certificate only demonstrates the capability of the product to be implemented into a safety system of a required integrity level as defined above.

For DNV GL USA, Inc.:

**James,
 Crystal** Digitally signed
 by James, Crystal
 Date: 2019.07.08
 08:58:17 -05'00'

Crystal James
Technical Manager



Place and date:
 DNV GL Houston – TX, USA / London, UK
 Current Issue Date
 8 July 2019

For DNV GL UK Ltd.:



Digitally signed by Derbyshire,
 Andrew
 DN: CN="Derbyshire, Andrew"
 Location: DNV GL Aberdeen,
 UK
 Date: 2019.07.08
 14:52:36+01'00'

Andrew Derbyshire
**Certification Manager for the
 Project**