EC DESIGN EXAMINATION CERTIFICATE

Certificate No:
PED-H1-240
Rev: **01**
Job Id:
341.4-000130-2

This is to certify that the design of the product(s)
Pressure Accessory

with name and/or type designation(s)
Top Entry Ball Valves

Manufacturer
FLOW CONTROL TECHNOLOGIES
SAINT-JUERY, France

has been assessed with respect to
the conformity assessment procedure described in annex III (Module H1) of Council Directive 97/23/EC on Pressure Equipment, as amended, and found to comply.

Further details are given overleaf

Høvik, 2014-11-03
for **DNV GL**

Notified Body No.: **0575**

Marianne Spæren Marvang
Certification Manager

DNV GL local office:
Marseille

Murat Baykan
Technical Reviewer

Certificate No: **PED-H1-240**
Job Id: **341.4-000130-2**

Jurisdiction

Application of Council Directive 97/23/EC of 29 May 1997 on Pressure Equipment, adopted as regulation of 1999-06-09 no. 721 "Forskrift for Trykkpåkjent Utstyr" by the Norwegian Directorate of Civil Protection and Emergency Planning and by the Petroleum Safety Authority Norway.

Certificate history

Revision	Description	Issue Date
PED-H1-59	Original certificate	2002-04-26
PED-H1-175	Renewal	2007-07-01
PED-H1-240	Renewal, this certificate	2014-06-16
PED-H1-240 rev.1	Changed fluid group and category of pressure equipment. Re-written first comment under Applications/Limitations	2014-11-03

Products covered by this Certificate

Product Name	Product Description	Category	Applied Product Std.
Top Entry Ball valve	Model TE; The ball valves can be manually or gear operated or can be fited with actuator of Electric, Pneumatic or Hydraulic type.	IV	API 6D, API 6A, supporting standards ASME B16.34, ASME VIII div 1 & 2.

Design Data

Maximum allowable pressure (PS)	Maximum / Minimum allowable temperature (TS)	Fluid	Fluid group
103,5 MPa	-101 to +450°C	Hydrocarbons, Gas & Liquid	1 and 2

Applications / Limitations

- The valves covered by this certificate are intended by the manufacturer to be integrated into a safety chain and therefore the category of pressure equipment has been defined to be IV. Refer to PED guideline 2/33. The safety chain and the integration of the valve into the safety chain have not been assessed.
- The table above shows the total range of application for the approved family of valves. For application of each individual variant, consult the design documentation.
- The materials used for pressurised parts of the valves have been subject to a particular material appraisal (PMA)
- This Certificate only relates to directives described above. Other directives, covering other phenomena, and also having requirements related to CE marking, might also apply
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Documents reviewed

Drawing / Document No	Rev.	Date	Title	Status[1]
211244	Rev. A	01.04.09	Typical Drawing References for "FCT" Production Range- FCT Top Entry Valves (page 3/3) - (Annex to Technical File No. P-DT-001-T)	A
P-DT-001-T	rev. A	01.04.19	PED-CE Marking, Technical Evaluation File For Ball Valves Category IV, Module H1, For Transport of Dangerous Fluid Group 1& 2.	A
R_PR_0124_T	Rev. A	01.06.18	Calculation Procedure For Ball Valve Type:TE	FI
R_DQ-0014_T	Rev. B	02.02.18	Calculation Note. Calculation of FCT Ball Valve Type: Top Entry Ball Valve in accordance with ASME VIII div. 1	FI
R_PR_0125_T	Rev. A	01.09.28	Calculation Procedure For Ball Valve Type:TE	FI
R_DQ-0015_T,	Rev. A	01.09.25	Calculation Note. Calculation of FCT Ball Valve	FI

[1] A = Approved, AC = Approved with comments, FI = For information

Drawing / Document No	Rev.	Date	Title	Status[1]
			Type: Top Entry Ball Valve in accordance with ASME VIII div. 1	
R_PR_0126_T	Rev. A	01.09.25	Calculation Procedure For Ball Valve Type:TE	FI
R_DQ-0016_T	Rev. A	01.09.25	Calculation Note. Calculation of FCT Ball Valve Type: Top Entry Ball Valve in accordance with ASME VIII div. 2	FI
TNC_8E_12_L_04_T	Rev. A	97.09.04	Calculation Note - Ball Valve : TE 12”x12” API 15000 MJ/BW +PUP-PIECE	FI
P-DT-0003-T		02.09.12	Actuated Ball Valve	FI

Particular Material Appraisal

Materials for pressure conatining parts have been subject to Particular Material Appraisal as required by PED annex 1 sec. 4.2b. Documentation of materials shall comply with PED annex 1 sec 4.3.

Terms and conditions

The certificate is subject to the following terms and conditions:

- In case of damages caused by defective products, directive 85/374/EEC, as amended, will apply
- The Certificate is only valid for the product(s) listed above
- The Certificate is concerned with the design of the product only

The following may render this Certificate invalid:

- Changes in the design or construction of the product(s)
- Changes or amendments to the referenced directive(s)
- Changes or amendments in the standard(s) which form the basis for documenting compliance with the essential requirements of the directive(s)

Conformity declaration and marking of product

This Certificate does not give the Manufacturer the right to CE mark and put on the market the listed product(s). The product(s) must be manufactured under a approved Full Product Quality Management System according to Module H1, in order to allow the Manufacturer to draw up an EC Declaration of Conformity and legally affix the CE mark followed by the Notified Body identification number of DNV GL (0575).