

EC DESIGN EXAMINATION CERTIFICATE

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

with name and/or type designation(s)
Fully Welded 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 Marveng
Certification Manager

DNV GL local office:
Marseille

Murat Baykan
Technical Reviewer

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
Except for any liability caused by DNV GL's gross negligence or willful misconduct, DNV GL's maximum cumulative liability arising out of or
related to the use of or reliance on this document shall be limited to USD 300 000.
The digitally signed and electronically distributed document is the original and valid certificate. Ref.: www.dnv.com/digitalsignatures

Certificate No: **PED-H1-239**
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-H1-58	Original certificate	2002-04-26
PED-H1-174	Renewal	2007-07-01
PED-H1-239	Renewal	2014-06-16
PED-H1-239 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.
Fully Welded Ball Valves	Model DBW. The ball valves can be manually or gear operated or can be fitted with actuator of Electric, Pneumatic or Hydraulic type.	IV	API 6D; Supporting standards ASME B16.34, ASME VIII div.1 & 2

Design Data

Maximum allowable pressure (PS)	Maximum / Minimum allowable temperature (TS)	Fluid	Fluid group
42 MPa	-60 to +200 °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.

Documents reviewed

Drawing/Document No	Rev.	Date	Title	Status ¹
211244	Rev. A	01.04.09	Typical Drawing References for "FCT" Production Range- FCT Fully Welded Valves (page 2/3) - (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_0122_T	Rev. A	01.06.18	Calculation Procedure For Ball Valve Type: DBW	FI
R_DQ-0012_T	Rev. C	02.02.18	Calculation Note. Calculation of FCT Ball Valve Type: Three Pieces Fully Welded Ball Valve in accordance with ASME VIII div. 1	FI

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

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Drawing/Document No	Rev.	Date	Title	Status¹
R_PR_0123_T	Rev. A	01.06.18	Calculation Procedure For Ball Valve Type: DBW	FI
R_DQ-0013_T	Rev. C	02.02.18	Calculation Note. Calculation of FCT Ball Valve Type: Two Pieces Cast Fully Welded Ball Valve in accordance with ASME VIII div. 1	FI
R_PR_0129_T	Rev. A	01.09.25	Calculation Procedure For Ball Valve Type: DBW	FI
R-PR_0019_T	Rev. A	01.09.25	Calculation Note. Calculation of FCT Ball Valve Type: Three Pieces Fully Welded Ball Valve in accordance with ASME VIII div. 1	FI
P-DT-0003-T		02.09.12	Actuated Ball Valve	FI

Particular Material Appraisal

Materials for pressure containing 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).