

CERTIFICATE

**Quality-assurance System
for Material Manufacturer
acc. to Pressure Equipment Directive 97/23/EC
and AD 2000-Merkblatt W0**

Certificate no.: 07 202 1423 WZ 1218/08

**Name and address
of manufacturer:**

Inova Cast Pvt. Ltd.
Works: Survey No. 202, Village: Veraval (Shapar),
District: - Rajkot-360 024
State: Gujarat, India

This is to certify that the manufacturer has implemented and applies a QA System.
This QA System has been subjected to a specific assessment for material acc. to Directive
97/23/EC and acc. to AD 2000-Merkblatt W0, with regard to the materials mentioned within the
scope of approval.

Approved:

QA System acc. to Directive 97/23/EC Annex I, sec. 4.3
and AD 2000-Merkblatt W0

Audit report no.:

21337008

Scope of approval:

Valve and Pump Castings
Details of the scope are mentioned in the annex of the
certificate.

Production site:

Works: Survey No. 202, Village: Veraval (Shapar),
District: - Rajkot-360 024
State: Gujarat, India

The manufacturer disposes of the essential procedures and equipments as well as the required
qualified personnel to ensure quality of manufacturing and testing the materials and products
mentioned in the scope of approval.

Essen, 30.10.2008



TÜV CERT-Zertifizierungsstelle
für Druckgeräte der
TÜV NORD Systems GmbH & Co. KG
(Essen)


Hübinger

Notified body, registration no. 0045

Remark of validity:

Valid until 10.2011

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Member of



CONFÉDÉRATION EUROPÉENNE PROGRAMMES DE CONTRÔLE

Notified Body for Pressure Equipment Directive (PED), Reg. No. 0045

Scope of approval for material manufacturer acc. to Pressure Equipment Directive 97/23/EC,

annex I, sec. 4.3 and AD 2000-Merkblatt W0

 Date : 30.10.2008
 File no : SEK-37/09 - Hübl/Cri
 File no : SEK-37/09 - Hübl/Cri

 Annex to the certificate
 PED no : 07 202 1423 WZ 1218/08
 AD 2000-W0 no : 07 202 1423 WP 1218/08

Firm : INOVA CAST PVT. LTD.

Place: Survey No.202,

Village:-Veraval (Shapur), Dist:-RAJAKOT-382 024

| Item No. | Name of material | Specification | Condition of delivery | Type of product | Dim. [mm] Thickness | Dim. Ø [mm] Weight [kg.] | Regulations Requirements | Remarks |
|----------|------------------------|--------------------|-----------------------|-------------------------|---------------------|--------------------------|--------------------------|--|
| 1 | Grade WCB | 3 | 4 | 5 | 6 | 7 | 8 | In conjunction with EM 1503-2:2000 Annex page 2 of 2 to cert.no. Particular Material Appraisal With additional Impact test as per PMA TÜV-CERT Certification Body for Pressure Equipment of TÜV NORD Systems GmbH & Co. KG (Essen) |
| 2 | Grade WCC | ASTM A 216/A216M | N | Valve and Pump Castings | 50mm | 450mm | 97/23/EC | |
| 3 | Grade LCB | ASTM A 216/A216M | QT | | | | | |
| 4 | Grade LCC | ASTM A 352/A 352M | OT | | | | | |
| 5 | Grade LC2 | ASTM A 352/A 352M | NT | | | | | |
| 6 | Grade WC6 | ASTM A 352/A 352M | NT | | | | | |
| 7 | Grade WC9 | ASTM A 217/A 217M | NT | | | | | |
| 8 | Grade CF3 | ASTM A 217/A 217M | L | | | | | |
| 9 | Grade CF8 | ASTM A 351/ A 351M | L | | | | | |
| 10 | Grade CF8M | ASTM A 351/ A 351M | L | | | | | |
| 11 | Grade CF8M | ASTM A 351/ A 351M | L | | | | | |
| 12 | Grade CH20 | ASTM A 351/ A 351M | L | | | | | |
| 13 | Grade CK20 | ASTM A 351/A 351 M | L | | | | | |
| 14 | Grade CG8M | ASTM A 351/ A 351M | L | | | | | |
| 15 | Grade CF8C | ASTM A 351/A 351M | L | | | | | |
| 16 | Grade CK3MCuN | ASTM A 351/A 351M | L | | | | | |
| 17 | Grade CA-15 | ASTM A 217/A 217M | NT | | | | | |
| 18 | Grade CD4MCuN | ASTM A 995/A 995M | L | | | | | |
| 19 | Grade CG3M | ASTM A 351/A 351M | L | | | | | |
| 20 | Grade CN7M | ASTM A 351/A 351M | L | | | | | |
| 21 | Grade CD3MN (Gr.4A) | ASTM A 995/A 995M | L | | | | | |
| 22 | Grade CE3MN (Gr.5A) | ASTM A 995/A 995M | L | | | | | |
| 23 | Grade CD3MWCuN (Gr.6A) | ASTM A 995/A 995M | L | | | | | |

A = Solution Treated and Tempered
 L = Solution Treated
 N = Normalized
 S = Stress-Free Annealed
 TM = Thermomech. Treated
 NT = Normalized and Tempered

U = Not Annealed
 V = Hardened
 CR = Temperature-Regulated Warm-Formed
 SB = Stabilization Treatment
 QT = Quench and Tempered
 T = Tempered

