

CERTIFICATE

Quality-Assurance System for material manufacturer
according to Pressure Equipment Directive 2014/68/EU

Certificate no.: 07/202/1409/WZ/2191/17

Name and address
of the manufacturer: Turbo Cast (India) Pvt. Ltd.
Survey No. 21, Village: Biliyala
Rajkot – Gondal National Highway
Rajkot – 360 311, Gujarat, India

Herewith we certify that the manufacturer has established and applies a **quality-assurance system related to the material**. This QA System has been subjected to a specific assessment acc. to directive 2014/68/EU, annex I, point 4.3 with regard to the materials mentioned in the scope of approval.

Approved acc. to directive
2014/68/EU: **QA-System in relation to materials,
EN 764-5, section 4.2 and AD2000-Merkblatt W0**

Certification file no.: **811 534 3016**

Audit report file no.: **811 511 1245 (TN India)**

Scope of approval:
(product / material) **Manufacturer & Supply of Investment Castings**

Production site: **Survey No. 21, Village: Biliyala, Rajkot-Gondal National
Highway, Rajkot – 360 311, Gujarat, India**

The certificate is valid until: **October 2020**

Only valid in conjunction with a valid certificate acc. to EN ISO 9001.

Essen, 26.10.2017

Annex: scope of approval

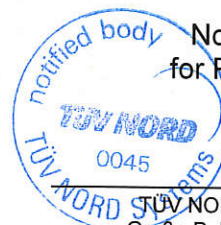
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Member of



CONFÉDÉRATION EUROPÉENNE D'ORGANISMES DE CONTRÔLE



Notified Body (0045)
for Pressure Equipment

Niekamp

TUV NORD Systems GmbH & Co. KG,
Große Bahnstraße 31, D-22525 Hamburg

TÜV NORD Systems GmbH & Co. KG

Notified Body for Pressure Equipment Directive (PED), Reg. No. 0045
 Scope of approval for material manufacturer acc. to Pressure Equipment Directive 2014/68/EU,
 annex I, pt. 4.3 and AD 2000-Merkblatt W0 / AD2000-Guidelines W0



Firm: Turbo Cast (India) Pvt. Ltd
 Place: Survey No: 21, Village: Biliyala
 Rajkot - Gondal National Highway
 Rajkot-360 311, Gujarat, India

Niekamp
 Date : 26.10.2017
 TÜV-File: SEI-1189/17
 SAP 811 534 3016

Annex to Certificate
 DGRL-Nr.: 07 202 1409 WZ 2191 17
 AD 2000-W0-Nr.: 07 203 1409 WP 2191 17

Item No.	Material Designation Material number	Material Specification	Delivery Condition	Article Type of product	Dim. [mm] Thickness	Dim. Ø [mm] Weight [kg, t]	Techn. Specification Requirements	Remarks
1	2	3	4	5	6	7	8	9
1,11	1,4309	EN 10213	+AT	Valve and Pump Castings	Up to 50mm	Maximum 45 Kgs	Directive 2014/68/EU	Certified acc. To PED annex I, sec. 4.3 by the notified body of TÜV NORD Systems (Reg.No.0045)
1,12	1,4409	EN 10213	+AT	Valve and Pump Castings	Up to 50mm	Maximum 45 Kgs		
1,13	1,4470	EN 10213	+AT	Valve and Pump Castings	Up to 50mm	Maximum 45 Kgs		
1,14	1,4469	EN 10213	+AT	Valve and Pump Castings	Up to 50mm	Maximum 45 Kgs		
2,11	1,0619	EN 10213	N, +QT	Valve and Pump Castings	Up to 50mm	Maximum 45 Kgs	AD 2000 Merkblatt W5	No Production or Repair Welding is involved in the manufacturing processes
2,12	1,4308	EN 10213	+AT	Valve and Pump Castings	Up to 50mm	Maximum 45 Kgs		
2,13	1,4408	EN 10213	+AT	Valve and Pump Castings	Up to 50mm	Maximum 45 Kgs		
2,14	1,4581	EN 10213	+AT	Valve and Pump Castings	Up to 50mm	Maximum 45 Kgs		

Explanation: +AT / AT = solution heat treated and detemred; N = Normalized or normalizing rolled / forming;
 NT = normalized and tempered; +QT / V = quenched and tempered; M = thermo mechanical treated
 AR = without annealing; SR = stress relieved; A = soft annealed; CR = controlled hot rolled

Hints for materials use acc. to Directive 2014/68/EU : The specific material operation conditions have to be approved by pressure equipment manufacturer and by the notified body in charge

TUV NORD Systems GmbH & Co. KG

Notified Body for Pressure Equipment Directive (PED), Reg. No. 0045
 Scope of approval for material manufacturer acc. to Pressure Equipment Directive 2014/68/EU,
 annex I, pt. 4.3 and AD 2000-Merkblatt W0 / AD2000-Guidelines W0




Date : 26.10.2017
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3.11	CF3	A/SA 351	+AT	Valve and Pump Castings	Up to 50mm	Maximum 45 Kgs		If use in area of PED 2014/68/EU a Particular Material Appraisal (PMA) is necessary
3.12	CF3M	A/SA 351	+AT	Valve and Pump Castings	Up to 50mm	Maximum 45 Kgs		
3.13	CF8	A/SA 351	+AT	Valve and Pump Castings	Up to 50mm	Maximum 45 Kgs		
3.14	CF8M	A/SA 351	+AT	Valve and Pump Castings	Up to 50mm	Maximum 45 Kgs		
3.15	WCB	A/SA 216	N,+QT	Valve and Pump Castings	Up to 50mm	Maximum 45 Kgs		
3.16	LCB	A/SA 352	N,+QT	Valve and Pump Castings	Up to 50mm	Maximum 45 Kgs		
3.17	4A	A/SA 890/895	+AT	Valve and Pump Castings	Up to 50mm	Maximum 45 Kgs		
3.18	5A	A/SA 890/895	+AT	Valve and Pump Castings	Up to 50mm	Maximum 45 Kgs		

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