

CERTIFICATE

**Certification Body
of TÜV NORD Systems GmbH & Co. KG**

certifies that the company

RAJ ENGINEERS

**Plot No.52, Road No.B, Opp. Road No.4,
Phase-1, G.I.D.C., Kathwada,
Ahmedabad-382430 Gujarat India**

has been verified and recognized as material manufacturer according to

AD 2000-Merkblatt W0

Certificate-No.: 07-203-1409-WP-1681/15

The scope of approval is available in the annex
"scope of approval", file no.: SEK-424/15 (811 274 0833)

The company fulfils the following essential requirements:
Facilities permitting appropriate manufacturing and inspection corresponding to the present
technical standards, quality assurance, which guarantees that manufacturing and inspection of products stated
in our scope of approval are carried out in accordance with technical regulations,
competent supervising and inspecting personnel.

This certificate is valid until

June 2018

Essen, 03.06.2015



Niekamp

TÜV NORD Systems GmbH & Co. KG

TÜV NORD Systems GmbH & Co. KG • Technikzentrum •
Certification Body for Pressure Equipment (Notified Body, Reg. -No. 0045)
Große Bahnstraße 31 • 22525 Hamburg

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CERTIFICATE

**Quality Assurance System
for Material Manufacturer
acc. to Pressure Equipment Directive 97/23/EC**

Certificate no.: 07-202-1409 WZ-1681/15

**Name and address
of manufacturer:**

**RAJ ENGINEERS
Plot No.52, Road No.B, Opp. Road No.4,
Phase-1, G.I.D.C., Kathwada, Ahmedabad-382430
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, annex I, sec. 4.3 with regard to the materials mentioned within the scope of approval.

Approved:

**QA System acc. to AD2000-Merkblatt W0
and EN 764-5, sec. 4.2**

Audit report no.:

811 274 0833

Scope of approval:

Sand Castings for Valves & Pumps

Details of the scope are mentioned in the annex of the certificate AD2000-Merkblatt W0.

Production site:

**Plot No.52, Road No.B, Opp. Road No.4,
Phase-1, G.I.D.C., Kathwada, Ahmedabad-382430 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, 03.06.2015



**Certification Body
for Pressure Equipment
of TÜV NORD Systems GmbH & Co. KG**


Niekamp

Notified body, registration no. 0045

**Remark of validity:
Valid until June 2018**

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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 97/23/EC,
annex I, sec. 4.3 and AD 2000-Merkblatt W0 / AD2000-Guidelines W0



Date : 03.06.2015
TÜV-File: SEK-424/15
SAP: 811/274 0833
Hübinger

Firm: RAJ ENGINEERS
Place: Plot No.52, Road No.B, Opp. Road No. 4,
Phase-1, G.I.D.C. Kathwada, Ahmedabad – 382 430.
Gujarat, India

Annex to Certificate
DGRL-Nr.: 07 202 1409 WZ 1681 15
AD 2000-W0-Nr.: 07 203 1409 WP 1681 15

Item No.	Name of material Material number	Specification	Condition of delivery	Type of product	Dim. [mm] Thickness	Dim. Ø [mm] Weight [kg, t]	Regulations Requirements	Remarks
1	2	3	4	5	6	7	8	9
1.11	1.4409	EN 10213	AT	SAND CASTING FOR VALVES & PUMPS	6mm To 150mm	Up To 350 Kg	Directive 97/23/EC	Certified acc. to PED annex I, sec. 4.3 by the notified body of TÜV NORD Systems (Reg. no. 0045).
2.11 2.12	1.4408 1.0619	EN 10213 EN 10213	AT N	SAND CASTING FOR VALVES & PUMPS	6mm To 150mm	Up To 350 Kg	Directive 97/23/EC AD2000-W5	3.2 Inspection Certificate is required for Sr. No: 2.11 if the casting weight is increased by 200 Kgs
3.11 3.12 3.13 3.14	WCB CF3M CF8M LCB	ASTM A 216 ASTM A 351 ASTM A 351 ASTM A 352	N AT AT QT	SAND CASTING FOR VALVES & PUMPS	6mm To 150mm	Up To 350 Kg		PMA is required if used in case of PED application

Explanation: +AT / AT = solution heat treated and detemred; N = normalized and normalizing forming;
NT = normalized and annealed; +QT / V = quenched and tempered; M = thermomechanical treated
AR = without annealing; SR = stress relieved; A = soft annealed; CR = controlled hot rolled
Hints for materials use acc. to Directive 97/23/EC :
The specific material operation conditions have to be approved by pressure equipment manufacturer and by the notified body in charge