

CERTIFICATE

TÜV NORD Systems GmbH & Co. KG

certifies that the company

**Karmen International Pvt. Ltd. (Castmetals Division)
A-12, SIPCOT Industrial Growth Center, Oragadam
Sriperumbudur Tk, Kancheepuram, Dist. 602 105
Tamil Nadu, INDIA**

has been verified and recognized as material manufacturer according to

AD 2000-Merkblatt W0

Certificate-No.: 07/203/1409/WP/1411/21

File No.: 811 976 8227

Production site: **As Above**

The scope of approval is available in the annex scope of approval.

The company fulfils the following essential requirements:

Facilities for appropriate manufacturing and testing, appropriate procedures for manufacturing of the products, qualified personnel for manufacturing and testing of the products and a quality management system with appropriate records, which ensures proper manufacture of the products, as well as compliance with the requirements specified in the material specification.

This certificate is valid until

October 2024

Essen, 2021-09-02

Annex: scope of approval

Conventional Power Plants
Am TÜV 1
45307 Essen

Phone: 201-825-2722
Fax: 201-825-2858
E-Mail: DNiekamp@tuev-nord.de


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



CERTIFICATE

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

Certificate no.: 07/202/1409/WZ/1411/21

**Name and address
of the manufacturer:**

**Karmen International Pvt. Ltd. (Castmetals Division)
A-12, SIPCOT Industrial Growth Center, Oragadam
Sriperumbudur Tk, Kancheepuram Dist. 602 105
Tamil Nadu, 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.:

811 976 8227

Audit report file no.:

811 935 4507

Scope of approval:
(product / material)

Manufacture of Steel Castings for Pressure Accessories

Production site:

**A-12, SIPCOT Industrial Growth Center, Oragadam,
Sriperumbudur Tk, Kancheepuram Dist. 602 105, Tamil
Nadu, INDIA**

The certificate is valid until:

October 2024

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

Essen, 2021-09-02



Notified Body (0045)
for Pressure Equipment


Niekamp

Annex: Scope of Approval

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Große Bahnstraße 31, D-22525 Hamburg

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Member of



CONFÉDÉRATION EUROPÉENNE D'ORGANISMES DE CONTRÔLE

Notifizierte Stelle 0045 / Notified Body 0045

Geltungsbereich der Überprüfung gemäß / Scope of Approval according to

- ☒ Richtlinie 2014/68/EU, Anhang I, Nummer 4.3 / Directive 2014/68/EU, Annex I, Point 4.3.
- ☒ AD 2000-Merkblatt W 0 / AD 2000-Merkblatt W 0

Firma / Company: M/s. Karmen International Pvt Ltd., Castmetals Division

Ort / Location: Oragadam, Tamilnadu, INDIA.

Zertifikat-Nr. / Certificate No.: 07 202 1409 WZ 1411 21

Zertifikat-Nr. / Certificate No.: 07 203 1409 WP 1411 21

Datum / Date: 01.09.2021/02.09.2021

AZ / File No.: ISIPW-864/21

SAP-No.: 811 976 8227



Nr. No.	Werkstoffbezeichnung Material designation	Spezifikation Specification	Lieferzustand* Delivery cond.*	Erzeugnisform Product type	Abmessungen Dimensions		Prüfungsanlag Test specifications	Bemerkungen Remarks
					Dicke Thickness [mm]	Ø / Gewicht Weight [kg]		
1.1	GP280GH(1.0625)	EN 10213	+N	Steel Valve/Pump Castings for Pressure Purpose	<= 100	1000	Directive 2014/68/EU	Certified acc. to PED annex I, sec. 4.3 by the Notified Body of TÜV NORD Systems (Reg. no. 0045).
1.2	GX2CrNiMoN 25-7-3 (1.4417)	EN 10213	+AT	Steel Valve/Pump Castings for Pressure Purpose	<= 150	1000	Directive 2014/68/EU	
1.3.	GX2CrNiMoN22-5-3(1.4470)	EN 10213	+AT	Steel Valve/Pump Castings for Pressure Purpose	<= 150	1000	Directive 2014/68/EU	
1.4	GX2CrNiMo19-11-2(1.4409)	EN 10213	+AT	Steel Valve/Pump Castings for Pressure Purpose	<= 150	1000	Directive 2014/68/EU	
1.5.	GX2CrNi 19-11(1.4309)	EN 10213	+AT	Steel Valve/Pump Castings for Pressure Purpose	<= 150	1000	Directive 2014/68/EU	
1.6	GX4CrNi 13-4 (1.4317)	EN 10213	+QT/V	Steel Valve/Pump Castings for Pressure Purpose	<= 300	1000	Directive 2014/68/EU	
2.1	GP240GH (1.0619)*1	EN 10213	+N	Steel Valve/Pump Castings for Pressure Purpose	<= 100	1000	Directive 2014/68/EU, AD 2000- W5	Production or Repair Welding during Manufacturing process in area of AD 2000 W5 are approved for KI/WPS/EN012 R02 ,KI / WPS/EN010 R02, KI /WPS/EN011 R02KI / WPS /EN013 R02 , KI / WPS/EN014 R02,KI / WPS / 029EN R00, *1-With Inspection Certification 3.2 in acc with EN10204 for production weight above 500 kgs
2.2	G20Mn5 (1.6220)*4	EN 10213	QT/V	Steel Valve/Pump Castings for Pressure Purposes	<= 100	1000	Directive 2014/68/EU, AD 2000- W5,W10	
2.3	G17CrMo5-5 (1.7357)*4	EN 10213	QT/V	Steel Valve/Pump Castings for Pressure Purposes	<= 100	1000	Directive 2014/68/EU, AD 2000- W5	

* +AT = Lösungsgeglüht / solution annealed, +N = normalgeglüht, normalisierend umgeformt / normalized forming, +U = unbehandelt / untreated, +NT = normalgeglüht und angelassen / normalized and tempered, +QT = vergütet / quenched and tempered, +M = thermomechanisch umgeformt / thermo mechanical formed, +AR = wie gewalzt / as rolled, +SR = spannungsarmgeglüht / stress relieved, +A = weichgeglüht / soft annealed, +CR = kaltgewalzt / cold rolled
(weitere Symbole / other symbols: EN 10027-1, Tab. 18)

Notifizierte Stelle 0045 / Notified Body 0045

Geltungsbereich der Überprüfung gemäß / Scope of Approval according to

- ☒ Richtlinie 2014/68/EU, Anhang I, Nummer 4.3 / Directive 2014/68/EU, Annex I, Point 4.3.
- ☒ AD 2000-Merkblatt W 0 / AD 2000-Merkblatt W 0

Firma / Company: M/s. Karmen International Pvt Ltd., Castmetals Division

Ort / Location: Oragadam, Tamilnadu, INDIA.

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2.4	G17CrMo9-10 (1.7379)*4	EN 10213	QTV	Steel Valve Castings for Pressure Purposes	<=150 1000	Directive 2014/EU, AD 2000- W5	*2-With Inspection Certificate 3.2 in acc.With EN10204 for production weight above 200 kgs for W5
2.5	GX5CrNiMo19-11-2 (1.4408)*2,*3	EN 10213	+AT	Steel Valve/Pump Castings for Pressure Purposes	<=150 1000	Directive 2014/68/EU, AD 2000, W5, W10	*3-With Inspection Certificate 3.2 in acc.With EN10204 for W10
2.6	GX5CrNi 19-10 (1.4308)*2,*3	EN 10213	+AT	Steel Valve/Pump Castings for Pressure Purposes	<=150 1000	Directive 2014/68/EU, AD 2000, W5, W10	*4-With Inspection Certificate 3.2 in acc.With EN10204.
3.1	WCBWCC	ASTM A216	+N				
3.2	LCB/LCC	ASTM A352	+QTV				
3.3	WC6	ASTM A217	NT				
3.4	WC9	ASTM A217	NT				
3.5	CF3	ASTM A351	+AT				
3.6	CF8	ASTM A351	+AT				
3.7	CF3M	ASTM A351	+AT				
3.8	CF8M	ASTM A351	+AT				
3.9	CA6NM/CA6NM ClassA	ASTM A487	NT				
3.10	CD3MN (Gr.4A)	ASTM A890/A995	+AT				
3.11	CE3MN (Gr.5A)	ASTM A890/A995	+AT				
3.12	CD3MWCuN (Gr.6A)	ASTM A890/A995	+AT				
3.13	M35-1	ASTM A494	As Cast				
3.14	M30-C	ASTM A494	As Cast				
4.1	C95800	ASTM B148	A	Aluminium Bronze Castings	1000		
4.2	C95800	ASTM B148	AR	Aluminium Bronze Castings			

*+AT = Lösungsgeglüht / solution annealed, +N = normalgeglüht, normalisierend umgeformt / normalized forming, +U = unbehandelt / untreated, +NT = normalgeglüht und angelassen / normalized and tempered, +M = thermomechanisch umgeformt / thermo mechanical formed, +AR = wie gewalzt / as rolled, +SR = spannungsarmgeglüht / stress relieved, +A = weichgeglüht / soft annealed, +CR = kaltgewalzt / cold rolled (weitere Symbole / other symbols: EN 10027-1, Tab. 18)