

Certificate

Quality-Assurance System for Manufacturer of Materials acc. to Directive 2014/68/EU

Certificate no.: 01 202 CHN/Q-03 0096

Name and address of the
manufacturer:

Jiangyin Hengrun Heavy Industries Co., Ltd.
A Area, European Industrial Zone,
Zhouzhuang Town, Jiangyin City,
Jiangsu Province, P.R. China 214423

Herewith we certify that the material manufacturer has established and applies a Quality Management System. The system was audited according to the European Directive 2014/68/EU, Annex I, Par. 4.3, with regard to the materials as listed in the scope of approval.

Tested acc. to
Directive 2014/68/EU:

**QM System acc. to EN 764-5, article 4.2 and
AD 2000-Merkblatt W0**

Audit report no.:

CHN/Q-03 0096

Area of validity:

Manufacturing of Forged Steel Flanges and Components,
see annex to certificate

Manufacturing plant:

Jiangyin Hengrun Heavy Industries Co., Ltd.
A Area, European Industrial Zone,
Zhouzhuang Town, Jiangyin City,
Jiangsu Province, P.R. China 214423

Valid until:

December 30, 2021

O. T.



Cologne, January 03, 2019

i.V. Dipl.-Ing. Oliver Theisen

TÜV Rheinland Industrie Service GmbH
Notifizierte Stelle für Druckgeräte, Kennnummer: 0035
Am Grauen Stein, D-51105 Köln

E-008-D-Rev22

Zertifikat

Qualitätsmanagement-System für Werkstoffhersteller nach Richtlinie 2014/68/EU

Zertifikat Nr.: 01 202 CHN/Q-03 0096

Name und Anschrift des Herstellers:

Jiangyin Hengrun Heavy Industries Co., Ltd.
A Area, European Industrial Zone,
Zhouzhuang Town, Jiangyin City,
Jiangsu Province, P.R. China 214423

Hiemit wird bescheinigt, dass der Hersteller ein QM-System eingeführt hat und anwendet. Dieses wurde gemäß der Richtlinie 2014/68/EU, Anhang I, Kap 4.3 in Bezug auf die im Geltungsbereich genannten Werkstoffe einer spezifischen Überprüfung unterzogen.

Geprüft nach Richtlinie 2014/68/EU:

QM-System nach EN 764-5, Abschnitt 4.2 und AD 2000-Merkblatt W0

Auditbericht Nr.:

CHN/Q-03 0096

Geltungsbereich:

Herstellung von geschmiedeten Stahlflanschen und Komponenten, siehe Anlage zum Zertifikat

Fertigungsstätte/Lieferer:

Jiangyin Hengrun Heavy Industries Co., Ltd.
A Area, European Industrial Zone,
Zhouzhuang Town, Jiangyin City,
Jiangsu Province, P.R. China 214423

Gültig bis:

30. Dezember 2021

O. Th.




Köln, 03. Januar 2019

i.V. Dipl.-Ing. Oliver Theisen

TÜV Rheinland Industrie Service GmbH
Notifizierte Stelle für Druckgeräte, Kennnummer: 0035
Am Grauen Stein, D-51105 Köln

E-008-D-Rev22

Scope according to		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3		<input type="checkbox"/> EN 764-4		<input checked="" type="checkbox"/> AD 2000-Merkblatt W0		<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+)				
Manufacturer				Work				Nationality	Date	Page No..	TÜV Rheinland Industrie Service GmbH	
Company Name: Jiangyin Hengrun Heavy Industries Co., Ltd. Location: A Area, European Industrial Zone, Zhouzhuang Town, Jiangyin City, Jiangsu Province, P.R. China 214423				A Area, European Industrial Zone, Zhouzhuang Town, Jiangyin City, Jiangsu Province, P.R. China 214423				P. R. China	2018-11-09	1		
								Rev.:8	of : 3			
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max		Technical Specifications Requirements Technical Regulations	Remarks
					Thick-ness mm		Ø mm		1=t / 2=kg			
					from	Up to	from	Up to	↓	res ult		
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
1. Materials according to harmonized European standards (hEN) and European Approval for Materials (EAM) acc. Directive 2014/68/EU												
The use of the materials according to Directive 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.												
1	1.4301, 1.4307, 1.4401, 1.4404	EN 10222-5	+AT	Forged steel flange and components	-	250	25	7500	1	30	<p>If the forged parts grade and/or size outside approved scope, the forgings should be inspected and examined as per EN10204 3.2 by TUV Rheinland Group.</p> <p>PMA is requested if the dimension is outside the range acc. to the specific standard.</p> <p>For material 16 Mo3 (1.5415) and P355NH (1.0565) should be inspected and examined as per EN10204 3.2 by TUV Rheinland Group</p> 	
2	1.4306	EN 10222-5	+AT	Forged steel flange and components	-	160	25	7500	1	30		
3	1.4541, 1.4571	EN 10222-5	+AT	Forged steel flange and components	-	450	25	7500	1	30		
4	1.4462	EN 10222-5	+AT	Forged steel flange and components	-	350	25	7500	1	30		
5	1.7335, 1.7383	EN 10222-2	+NT or +QT	Forged steel flange and components	-	500	25	7500	1	30		
6	16 Mo3 (1.5415)	EN10222-2	+N or +QT	Forged steel flange and components	-	500	25	7500	1	30		
7	P250GH (1.0460)	EN10222-2	+N	Forged steel flange and components	-	500	25	7500	1	30		
8	P245GH (1.0352), P280GH(1.0426)	EN10222-2	+N, +NT or +QT	Forged steel flange and components	-	160	25	7500	1	30		
9	P355NH (1.0565)	EN10222-4	+N	Forged steel flange and components	-	400	25	7500	1	30		
Remarks		+AT = solution annealed +AR = as forged +M = thermo mechanical treated +N = normalized or normalizing formed		+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved		a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary						

Scope according to		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3	<input type="checkbox"/> EN 764-4	<input checked="" type="checkbox"/> AD 2000-Merkblatt W0	<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+)							
Manufacturer				Work		Nationality	Date	Page No..				
Company Name: Jiangyin Hengrun Heavy Industries Co., Ltd.				A Area, European Industrial Zone, Zhouzhuang Town, Jiangyin City, Jiangsu Province, P.R. China 214423		P. R. China	2018-11-09	2	TÜV Rheinland Industrie Service GmbH			
Location: A Area, European Industrial Zone, Zhouzhuang Town, Jiangyin City, Jiangsu Province, P.R. China 214423				A Area, European Industrial Zone, Zhouzhuang Town, Jiangyin City, Jiangsu Province, P.R. China 214423			Rev.:8	of : 3				
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ res ult	Technical Specifications Requirements Technical Regulations	Remarks	
					Thick-ness mm		Ø mm					
					from	Up to	from	Up to				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
2. Materials according to the AD 2000-Code												
The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.												
1	1.4301, 1.4306, 1.4307, 1.4401, 1.4404, 1.4541, 1.4571	EN 10222-5	+AT	Forged steel flange and components	-	500	25	7500	1	30	AD 2000-W2/W9	If the forged parts grade and/or size outside approved scope, the forgings should be inspected and examined as per EN10204 3.2 by TÜV Rheinland Group. PMA is requested if the dimension is outside the range acc. to the specific standard. For material 16 Mo3 (1.5415) and P355NH (1.0565) should be inspected and examined as per EN10204 3.2 by TÜV Rheinland Group
2	1.4462	EN 10222-5	+AT	Forged steel flange and components	-	500	25	7500	1	30	AD 2000-W2/W9	
3	1.7335, 1.7383	EN 10222-2	+NT or +QT	Forged steel flange and components	-	500	25	7500	1	30	AD 2000-W9/W13	
4	16 Mo3 (1.5415)	EN10222-2	+N or +QT	Forged steel flange and components	-	500	25	7500	1	30	AD 2000-W9/W13	
5	P245GH (1.0352), P280GH (1.0426)	EN10222-2	+N	Forged steel flange and components	-	500	25	7500	1	30	AD 2000-W9/W13	
6	P250GH (1.0460)	EN10222-2	+N	Forged steel flange and components	-	500	25	7500	1	30	AD 2000-W9/W13	
7	P355NH (1.0565)	EN10222-4	+N	Forged steel flange and components	-	500	25	7500	1	30	AD 2000-W9/W13	
Remarks		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed		+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved		a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary						

Scope according to		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3	<input type="checkbox"/> EN 764-4	<input checked="" type="checkbox"/> AD 2000-Merkblatt W0	<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+)							
Manufacturer			Work		Nationality	Date	Page No..					
Company Name: Jiangyin Hengrun Heavy Industries Co., Ltd. Location: A Area, European Industrial Zone, Zhouzhuang Town, Jiangyin City, Jiangsu Province, P.R. China 214423			A Area, European Industrial Zone, Zhouzhuang Town, Jiangyin City, Jiangsu Province, P.R. China 214423		P. R. China	2018-11-09	3	TÜV Rheinland Industrie Service GmbH				
Rev.:8		of: 3										
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ res ult	Technical Specifications Requirements Technical Regulations	Remarks	
					Thick-ness mm		∅ mm					
					from	Up to	from	Up to				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
3. Materials according to international standards (e. g. ASTM, ASME, IBR etc.)												
The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.												
1	F304, F304L, F317L, F316, F316L, F321, F316Ti	ASTM A182 and/or ASME SA182	+AT	Forged steel flange and components	-	500	25	7500	1	30	If the forged parts grade and/or size outside approved scope, the forgings should be inspected and examined as per EN10204 3.2 by TUV Rheinland Group. Note: a	
2	F11, F22, F91	ASTM A182 and/or ASME SA182	+NT	Forged steel flange and components	-	500	25	7500	1	30		
3	F51, F53, F60	ASTM A182 and/or ASME SA182	+AT	Forged steel flange and components	-	500	25	7500	1	30		
4	LF2	ASTM A350 and/or ASME SA350	+N, +QT, +NT	Forged steel flange and components	-	500	25	7500	1	30		
5	A105	ASTM A105 and/or ASME SA105	+N	Forged steel flange and components	-	500	25	7500	1	30		
6	A266	ASTM/ASME A366SA266M	+N	Forged Flange and Components	-	500	25	7500	1	30		
7	A765	ASTM A765 and/or ASME SA765	+N, +QT, +NT	Forged steel flange and components	-	500	25	7500	1	30		
Results		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed		+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved		a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary						

