

Certificate

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

Certificate no.:

01 202 CHN/Q-06 0144

Name and address of the
manufacturer:

Iraeta Energy Equipment Co., Ltd.
No. 9001 of Jiwang Road, Guanzhuang
sub-district office, Zhangqiu District, Jinan City,
Shandong Province, 250217, P.R. China

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-06 0144

Area of validity:

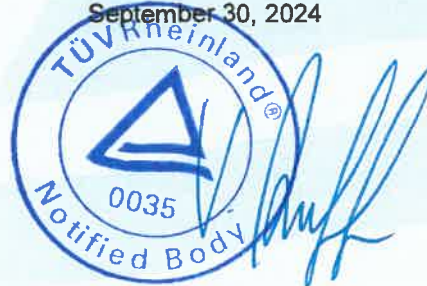
Manufacturing of forged flanges and Hot rolled rings,
see annex to certificate

Manufacturing plant:

Iraeta Energy Equipment Co., Ltd.
No. 9001 of Jiwang Road, Guanzhuang
sub-district office, Zhangqiu District, Jinan City,
Shandong Province, 250217, P.R. China

Valid until:

September 30, 2024



Cologne, July 14, 2021

Dipl.-Ing. (FH) Vera Ruff

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-06 0144

Name und Anschrift des
Herstellers:

Iraeta Energy Equipment Co., Ltd.
No. 9001 of Jiwang Road, Guanzhuang
sub-district office, Zhangqiu District, Jinan City,
Shandong Province, 250217, P.R. China

Hiermit 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-06 0144

Geltungsbereich:

Herstellung von geschmiedeten Flanschen und
Warmgewalzte Ring, siehe Anlage zum Zertifikat

Fertigungsstätte/Lieferer:

Iraeta Energy Equipment Co., Ltd.
No. 9001 of Jiwang Road, Guanzhuang
sub-district office, Zhangqiu District, Jinan City,
Shandong Province, 250217, P.R. China

Gültig bis:

30. September 2024



Köln, 14. Juli 2021

Dipl.-Ing. (FH) Vera Ruff

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

E-008-D-Rev22

Annex to Certificate No. : 01 202 CHN/Q-06 0144

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		Page No. 1				
Company Name: Iraeta Energy Equipment Co., Ltd. Location: No. 9001 of Jiawang Road, Guanzhuang sub-district office, Zhangqiu District, Jinan City, Shandong Province, 250217, P.R.China.		Same as left		TÜV Rheinland Industrie Service GmbH				
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions	Weight max	Technical Specifications Requirements	Remarks
1	2	3	4	5	Thick-ness mm DN mm from to Up to 6a 6b 7a 7b 8a 8b	kg	Technical Specifications Requirements Technical Regulations	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	P250GH	EN 10222-2	+N	Forged flanges	10 400 15 3500	--		
2	P245GH, P280GH	EN 10222-2	+N	Forged flanges	10 160 15 3500	--		PED2014/68/EU
3	P355NH	EN 10222-4	+N	Forged flanges	10 70 15 3500	--		
4	16Mo3	EN 10222-2	+N / +NT	Forged flanges	10 400 15 3500	--		EN 1092, etc.
5	13CrMo4-5	EN10222-2	+NT/ +QT	Forged flanges	10 400 15 3500	--		
Remarks		+AT = solution annealing and water quenching +AR = not treated +M = thermo mechanical treated +N = normalized or normalizing formed		+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +H = Solution annealed and age-hardened condition		a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary		


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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						
Company Name: Iraeta Energy Equipment Co., Ltd. Location: No. 9001 of Jiawang Road, Guanzhuang sub-district office, Zhangqiu District, Jinan City, Shandong Province, 250217, P.R.China.		Same as left		Nationality	Page No..			
				China	2			
				Date	TÜV Rheinland Industrie Service GmbH			
				June 25, 2021				
				Rev.: 2 of : 5				
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions	Weight max	Technical Specifications Requirements	Remarks
1	2	3	4	5	Thick-ness mm	kg	Technical Regulations	
					fro m to	↓		
					6a 6b 7a 7b	8a 8b		
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	S235JRG2(1.0038)	EN 10250-2	+AR /+ N	Forged Flanges	10 400 15 3500	--	AD2000-W9	
2	P250GH	EN 10222-2	+N	Forged flanges	10 400 15 3500	--	AD2000-W9	
3	P245GH, P280GH	EN 10222-2	+N	Forged Flanges	10 160 15 3500	--	AD2000-W9	
4	16Mo3	EN 10222-2	+N /+NT	Forged flanges	10 400 15 3500	--	AD2000-W9	
5	13CrMo4-5	EN 10222-2	+NT /+ QT	Forged flanges	10 400 15 3500	--	AD2000-W9	
Remarks	+AT = solution annealing and water quenching		+NT = normalized and tempered		a = PMA for the use in pressure equipment		in Directive 2014/68/EU necessary	
	+AR = Not treated		+QT = quenched and tempered					
	+M = thermo mechanical treated		+S = soft annealed					
	+N = normalized or normalizing formed		+H = Solution annealed and age-hardened condition					



Annex to Certificate No. : 01 202 CHN/Q-06 0144

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 WD		<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+)	
Manufacturer		Work		Nationality		Date		Page No..	
Company Name: Iraeta Energy Equipment Co., Ltd.		Same as left		China		June 25, 2021		3	
Location: No. 9001 of Jiwang Road, Guanzhuang sub-district office, Zhangqiu District, Jinan City, Shandong Province, 250217, P.R.China.						Rev.: 2		5	
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions	Weight max	Technical Specifications	Remarks	
	2	3	4	5	Thick-ness mm	kg	Requirements		
					DN mm		Technical Regulations		
					from to	↓ result			
					6a 6b 7a 7b 8a 8b			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	S235JRG2(1.0038)	EN10250-2	+AR /+ N	Forged flanges	10 400 15 350 0	--			a
2	42CrMo4	EN10083-3	+QT	Hot rolled rings	80 160 2000 640 0	--		PED2014/68/EU EN 1092	a
3	S355J2	EN10025-2	+N	Hot rolled rings	80 400 2000 640 0	--		EN 10029 EN 10059, etc.	a
4	S355NL	EN10025-3	+N	Hot rolled rings	80 250 2000 640 0	--			a
Results		+AT = solution annealing and water quenching +AR = Not treated +M = thermo mechanical treated +N = normalized or normalizing formed		+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +H = Solution annealed and age-hardened condition		a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary			



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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+)	
Company Name: Iraeta Energy Equipment Co., Ltd. Location: No. 9001 of Jiwang Road, Guanzhuang sub-district office, Zhangqiu District, Jinan City, Shandong Province, 250217, P.R.China.					
Manufacturer					
Materials-term Materials-No.		Material Specification		Delivery Cond.	
2		3		4	
Cur		Article Type of Product		Dimensions	
		5		6a 6b 7a 7b 8a 8b 9	
1				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.					
5	A105	ASTM A105	+QT/+N	10 400 15 3500	-- --
6	LF2	ASTM A350	+N	10 400 15 3500	-- --
7	F304, F304L, F316, F316L, F321, F51	ASTM A182	+AT	10 400 15 3500	-- --
8	F11, Class 1,2,3	ASTM A182	+NT	10 400 15 3500	-- --
Results		+AT = solution annealing and water quenching +AR = Not treated +M = thermo mechanical treated +N = normalized or normalizing formed		+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +H = Solution annealed and age-hardened condition	
				a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary	



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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 WO		<input type="checkbox"/> FPC, Regulation-(EU) No. 305/2011 (System 2+)	
Manufacturer		Company Name: Iraeta Energy Equipment Co., Ltd.		Work		Nationality		Page No..	
Location: No. 9001 of Jiwang Road, Guanzhuang sub-district office, Zhangqiu District, Jinan City, Shandong Province, 250217, P.R.China.		Material Specification		Same as left		China		5	
Materials-term Materials-No.		Delivery Cond.		Article Type of Product		Dimensions		Technical Specifications	
Cur -		3		5		Thick-ness mm		Requirements	
1		4		5		from to		Technical Regulations	
2		3		5		Up to		Remarks	
3		4		5		from to		Technical Specifications	
4		3		5		Up to		Requirements	
5		4		5		from to		Technical Regulations	
6		3		5		Up to		Remarks	
7		4		5		from to		Technical Specifications	
8		3		5		Up to		Requirements	
9		4		5		from to		Technical Regulations	
10		3		5		Up to		Remarks	
11		4		5		from to		Technical Specifications	
Results		3		5		Up to		Requirements	
+AT = solution annealing and water quenching		4		5		from to		Technical Regulations	
+AR = Not treated		3		5		Up to		Remarks	
+M = thermo mechanical treated		4		5		from to		Technical Specifications	
+N = normalized or normalizing formed		3		5		Up to		Requirements	
+NT = normalized and tempered		4		5		from to		Technical Regulations	
+QT = quenched and tempered		3		5		Up to		Remarks	
+S = soft annealed		4		5		from to		Technical Specifications	
+H = Solution annealed and age-hardened condition		3		5		Up to		Requirements	



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