

Certificate

Quality management system for Manufacturer of Materials acc. to Directive 2014/68/EU

Certificate no.: 01 202 IND/Q-16 0017.01

Name and address of the certificate holder: **Lal Metal Forge Private Limited
A - 7/1/13 ,
Electro Steel Casting Compound,
South Side of GT Road Ind Area
Ghaziabad 201009
India**

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, point 4.3, with regard to the materials as listed in the scope of approval.

Test basis: **QM System acc. to EN 764-5, Clause 4.2 and
AD 2000-Merkblatt W0**

Audit report no.: 01 202 IND/Q-16 0017

Scope: **Manufacture of Flanges, Rings, Tube-sheets,
forgings in Carbon Steel , Alloy Steel,
Duplex & Stainless Steel, see annex to certificate:
01 202 IND/Q-16 0017, revision 4 from 04.09.2025**

Manufacturing plant: see certificate holder

Validity: **The certificate is valid until 2028-08-23.**

Cologne, 2025-11-05

Ines Krüger-Führ



TÜV Rheinland Industrie Service GmbH
Notified Body for Pressure Equipment, ID-No. 0035
Am Grauen Stein, D-51105 Cologne


E-108a

Scope:		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I point 4.3	<input type="checkbox"/> EN 764-4	<input checked="" type="checkbox"/> AD 2000-Merkblatt W 0
Certificate holder (Manufacturer of materials)		Manufacturing plant		Nationality
Company Name:	Lal Metal Forge Private Limited	A-7/1/13 , Electro Steel Casting Compound, South Side of G.T.Road Industrial Area, Ghaziabad – 201009.		India
Location:	A-7/1/13 , Electro Steel Casting Compound South Side of G.T.Road Industrial Area, Ghaziabad – 201009			
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		of :	5	
		Date:	04.09.2025	
		Rev.:	4	

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 ↓	res ult		
					from	Up to	from	Up to				
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	1.5415,1.7335	EN 10222-2	QT	Flanges Rings Tubesheets Nozzles Bonnets	2.77	180	12.7	2000			
2	1.7383	EN 10022-2	QT/NT		25	500	100	2000			
3	1.0352	EN 10222-2	QT/NT N		40	250	100	2000			
4	1.0425	EN 10222-2	N		50	100	50	1000			
5	1.4903	EN 10222-2	NT		2.77	100	12.7	1000			
6	1.4539	EN 10222-5	AT								

Remarks	+AT = solution annealed	+NT = normalized and tempered	a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary
	+AR = as rolled	+QT = quenched and tempered	
	+M = thermo mechanical treated	+S = soft annealed	
	+N = normalized or normalizing formed	+SR = stress relieved	

Scope:	<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I point 4.3	<input type="checkbox"/> EN 764-4	<input checked="" type="checkbox"/> AD 2000-Merkblatt W 0
Certificate holder (Manufacturer of materials)		Manufacturing plant	Nationality
Company Name:	Lal Metal Forge Private Limited	A-7/1/13 , Electro Steel Casting Compound, South Side of G.T.Road Industrial Area, Ghaziabad – 201009.	India
Location:	A-7/1/13 , Electro Steel Casting Compound South Side of G.T.Road Industrial Area, Ghaziabad – 201009		
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of :	5	Date: 04.09.2025	
Rev.:	4		

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

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.

7	1.4301,1.4401,1.4404,1.4550 1.4307,1.4541,1.4571,1.4435	EN 10222-5	AT	Flanges Rings Tubesheets Nozzles Bonnets	2.77	180	12.7	2000			AD 2000 W2 AD 2000 W10	Flanges – 150# ti 2500#
8	1.0460,1.0426,1.0425,1.0481	EN 10222-2	N		40	250	100	2000				Bonnets 150# to 2500#
9	1.0570	EN 10250-2	N		50	100	50	1000			AD 2000 W9	
10	1.0565,1.0566,1.1106	EN 10222-4	N		2.77	100	12.7	1000				
11	1.0473	EN 10273	N	Bars			50	500				




Remarks	+AT = solution annealed	+NT = normalized and tempered	a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary
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	+N = normalized or normalizing formed	+SR = stress relieved	

Scope:	<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I point 4.3	<input type="checkbox"/> EN 764-4	<input checked="" type="checkbox"/> AD 2000-Merkblatt W 0		
Certificate holder (Manufacturer of materials)		Manufacturing plant	Nationality		
Company Name:	Lal Metal Forge Private Limited	A-7/1/13 , Electro Steel Casting Compound, South Side of G.T.Road Industrial Area, Ghaziabad – 201009.	India		
Location:	A-7/1/13 , Electro Steel Casting Compound South Side of G.T.Road Industrial Area, Ghaziabad – 201009				
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			Date:	04.09.2025	
			Rev.:	4	

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 ↓	res ult		
					from	Up to	from	Up to				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10

3. Materials according to other standards

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.

12	A 105	ASTM A 105	N/NT									PMA for the use in pressure equipment in Directive 2014/68/EU necessary
13	LF2,LF3,LF6	ASTM A 350	NT									
14	F1,F5,F6a,F9,F11,F12,F22,F91, F92, F22V, F5A	ASTM A 182	QT/NT	Flanges	2.77	180	12.7	2000				
				Rings	25	500	100	2000				
				Tubesheets	40	250	100	2000				
				Nozzles	50	100	50	1000				
				Bonnets	2.77	100	12.7	1000				
15	F304,F304L,F304H,F316,F316L,F316H,F321,F321H,F347 F347H,F51,F53,F55,F60.F91 F310,F317,F317L,F904L,F316Ti	ASTM A 182	AT									

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Scope:	<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I point 4.3	<input type="checkbox"/> EN 764-4	<input checked="" type="checkbox"/> AD 2000-Merkblatt W 0
Certificate holder (Manufacturer of materials)		Manufacturing plant	Nationality
Company Name:	Lal Metal Forge Private Limited	A-7/1/13 , Electro Steel Casting Compound, South Side of G.T.Road Industrial Area, Ghaziabad – 201009.	India
Location:	A-7/1/13 , Electro Steel Casting Compound South Side of G.T.Road Industrial Area, Ghaziabad – 201009		
			Page No.: 4
			of : 5
			Date: 04.09.2025
			Rev.: 4
			TÜV Rheinland Industrie Service GmbH

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 ↓	res ult		
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16	F42,F46,F48,F52,F50 F52,F60,F65,F70	ASTM A 694	QT/NT									PMA for the use in pressure equipment in Directive 2014/68/EU necessary
17	Gr 1, Gr 2, Gr 3, Gr 4	ASTM A 266	N/NT	Flanges	2.77	180	12.7	2000				
18	F5,F5A,F6,F9,F11,F22 F22V,F6NM,F91,F92	ASME SA 336	QT/NT	Rings	25	500	100	2000				
				Tubesheets	40	250	100	2000				
19	F304,F304L,F304H,F316,F316L F316H,F321,F321H,F347,F347H	ASME SA 965	AT	Nozzles	50	100	50	1000				
				Bonnets	2.77	100	12.7	1000				
20	F304,F304L,F316,F316L,F317 F321,F316Ti,F310,F317L,F904L	ASTM A 276 / ASTM A 479	AT									
21	Gr.I, Gr.II,Gr.III, Gr.IV, Gr.V	ASME SA 765	QT/NT									



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Scope:		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I point 4.3				<input type="checkbox"/> EN 764-4				<input checked="" type="checkbox"/> AD 2000-Merkblatt W 0				
Certificate holder (Manufacturer of materials)					Manufacturing plant				Nationality		Page No.:		5	
Company Name:		Lal Metal Forge Private Limited			A-7/1/13 , Electro Steel Casting Compound, South Side of G.T.Road Industrial Area, Ghaziabad – 201009.				India		of :		5	
Location:		A-7/1/13 , Electro Steel Casting Compound South Side of G.T.Road Industrial Area, Ghaziabad – 201009									Date:		04.09.2025	
											Rev.:		4	
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					
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1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10		

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22	1.4006,1.4021	EN 10250-4	QT/NT	Flanges	2.77	180	12.7	2000				PMA for the use in pressure equipment in Directive 2014/68/EU necessary
23	1.4057,1.4313	EN 10250-4	QT	Rings	25	500	100	2000				
				Tubesheets	40	250	100	2000				
24	1.4104,1.4005	EN 10088-3	QT/AT	Nozzles	50	100	50	1000				
				Bonnets	2.77	100	12.7	1000				



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Certificate

of suitability of a Material Manufacturer in accordance with the requirements of the Pressure Equipment Safety Regulations 2016 SI 2016 No.: 1105 as amended

Certificate no.: 2571 IND/Q-22 0002

Name and address of the
certificate holder:

**Lal Metal Forge Private Limited
A - 7/1/13 , Electro Steel Casting Compound,
South Side of GT Road Ind Area
Ghaziabad 201009
India**

TUV Rheinland UK Ltd., an approved body as described within the Pressure Equipment Safety Regulations 2016 as amended, has verified, and validated the suitability of the material(s) detailed in the annex to the certificate to be acceptable under The Pressure Equipment Safety Regulations 2016, Schedule 2 (8) as applicable to the UK for use in pressure equipment manufacture

Test basis:

**QM System acc. to EN 764-5:2014, article 4.2,
Regulations 2016. SI 2016 No.1105 as amended,
Code of Practice for the approval of material manufacturers
under the provisions of the UK Pressure Equipment Safety
Regulations**

Audit report no.:

2571 IND/Q-22 0002

Scope:

**Manufacture of Flanges, Rings, Tube-sheets, forgings in Carbon
Steel , Alloy Steel, see annex, 4.09.2025, rev.1, to certificate**

Manufacturing plant:

see certificate holder

Date of Review:

2025-11-05

Date of Certificate:

2025-11-05

Date of Expiry:

2028-08-23

Remarks:

This certificate was first issued on [2023-10-11]. Continued approval is subject to the referenced QMS certificate being maintained and kept up to date in accordance with the scope of original certification body approval. Any changes to the scope and or the products listed above invalidate this certificate. It remains incumbent on the user of this certificate to verify its continued validity.


Cologne, 2025-11-05


SJK
Svenja Kress





TUV Rheinland UK Ltd
Approved Body for pressure equipment, No. 2571
1011 Stratford Road, Shirley, Solihull, B90 4BN
ukca@uk.tuv.com

MS-0047560 E-208-Rev0

Scope according to		Pressure Equipment Safety Regulations 2016 SI 2016 No.: 1105 as amended										
Material Manufacturer				Manufacturing plant				Nationality		Date	Page No..	
Company Name:		Lal Metal Forge Private Limited		A-7/1/13 , Electro Steel Casting Compound, South Side of G.T.Road Industrial Area, Ghaziabad – 201009, India				India		04-09-25	1	TUV Rheinland UK Ltd
Location:		A-7/1/13 , Electro Steel Casting Compound, South Side of G.T.Road, Industrial Area, Ghaziabad – 201009, India								Rev.: 1	of : 4	
Cur-	Product grades (Materials-term / Materials-No.)	Product code or standard (Material Specification)	Delivery Cond.	Product Form (Article, Type of Product)	Product dimensions / quantity (Dimensions)				Weight max 1=t / 2=kg ↓ res ult	Technical Specifications Requirements Technical Regulations	Original material manufacturers QMS Certificate / Remarks	
					Thickness mm		Ø mm					
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
<p>The use of the materials according to Pressure Equipment Safety Regulations 2016 as amended is bound to the publication of designated standards 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 PESR must be observed for the use of material grades listed in column 2 to 4.</p>												
1	1.4301,1.4401,1.4404,1.4550 1.4307,1.4541,1.4571,1.4435	EN 10222-5	AT	Flanges	2.77	180	12.7	2000				Flanges “ 150# to 2500# Bonnets “ 150# to 2500#
2	1.0460,1.0426,1.0425,1.0481	EN 10222-2	N	Rings	25	500	100	2000				
3	1.0570	EN 10250-2	N	Tubesheets	40	250	100	2000				
4	1.0565,1.0566,1.1106	EN 10222-4	N	Nozzles	50	100	50	1000				
				Bonnets	2.77	100	12.7	1000				
5	1.0473	EN 10273	N	Bars			50	500				PMA for the use in pressure equipment is mandatory
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 PESR 2016 as amended necessary		

Scope according to		Pressure Equipment Safety Regulations 2016 SI 2016 No.: 1105 as amended											
Material Manufacturer				Manufacturing plant				Nationality		Date	Page No..		
Company Name:		Lal Metal Forge Private Limited		A-7/1/13 , Electro Steel Casting Compound, South Side of G.T.Road Industrial Area, Ghaziabad – 201009, India				India		04-09-25	2		TUV Rheinland UK Ltd
Location:		A-7/1/13 , Electro Steel Casting Compound, South Side of G.T.Road, Industrial Area, Ghaziabad – 201009, India								Rev.: 1	of : 4		
Cur-	Product grades (Materials-term / Materials-No.)	Product code or standard (Material Specification)	Delivery Cond.	Product Form (Article, Type of Product)	Product dimensions / quantity (Dimensions)				Weight max		Technical Specifications Requirements Technical Regulations	Original material manufacturers QMS Certificate / Remarks	
					Thickness mm		Ø mm		1=t / 2=kg	↓ res ult			
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10	
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6	1.5415,1.7335	EN 10222-2	QT	Flanges Rings Tubesheets Nozzles Bonnets	2.77	180	12.7	2000				Flanges “ 150# to 2500# Bonnets “ 150# to 2500# PMA for the use in pressure equipment is mandatory	
7	1.7383	EN 10022-2	QT/NT		25	500	100	2000					
8	1.0352	EN 10222-2	QT/NT N		40	250	100	2000					
9	1.0425	EN 10222-2	N		50	100	50	1000					
10	1.4903	EN 10222-2	NT		2.77	100	12.7	1000					
11	1.4539	EN 10222-5	AT										
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 PESR 2016 as amended necessary			

Scope according to		Pressure Equipment Safety Regulations 2016 SI 2016 No.: 1105 as amended											
Material Manufacturer				Manufacturing plant				Nationality		Date	Page No..		
Company Name:		Lal Metal Forge Private Limited		A-7/1/13 , Electro Steel Casting Compound, South Side of G.T.Road Industrial Area, Ghaziabad – 201009, India				India		04-09-25	3		TUV Rheinland UK Ltd
Location:		A-7/1/13 , Electro Steel Casting Compound, South Side of G.T.Road, Industrial Area, Ghaziabad – 201009, India								Rev.: 1	of : 4		
Cur-	Product grades (Materials-term / Materials-No.)	Product code or standard (Material Specification)	Delivery Cond.	Product Form (Article, Type of Product)	Product dimensions / quantity (Dimensions)				Weight max		Technical Specifications Requirements Technical Regulations	Original material manufacturers QMS Certificate / Remarks	
					Thickness mm		Ø mm		1=t / 2=kg				
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1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10	
<p>The use of the materials according to Pressure Equipment Safety Regulations 2016 as amended is bound to the publication of designated standards 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 PESR must be observed for the use of material grades listed in column 2 to 4.</p>													
12	A 105	ASTM A 105	N/NT	Flanges Rings Tubesheets Nozzles Bonnets	2.77	180	12.7	2000				Flanges “ 150# to 2500# Bonnets “ 150# to 2500# PMA for the use in pressure equipment is mandatory	
13	LF2,LF3,LF6	ASTM A 350	NT		25	500	100	2000					
14	F1,F5,F6a,F9,F11,F12,F22,F91 F92,F22V	ASTM A 182	QT/NT		40	250	100	2000					
15	F304,F304L,F304H,F316,F316L, F316H,F321,F321H,F347 F347H,F51,F53,F55,F60.F91 F310,F317,F317L,F904L,F316Ti	ASTM A 182	AT		50	100	50	1000					
16	F42,F46,F48,F52,F50 F52,F60,F65,F70	ASTM A 694	QT/NT		2.77	100	12.7	1000					
17	Gr 1, Gr 2, Gr 3, Gr 4	ASTM A 266	N/NT										
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 PESR 2016 as amended necessary

Scope according to		Pressure Equipment Safety Regulations 2016 SI 2016 No.: 1105 as amended											
Material Manufacturer				Manufacturing plant				Nationality		Date	Page No..		
Company Name:		Lal Metal Forge Private Limited		A-7/1/13 , Electro Steel Casting Compound, South Side of G.T.Road Industrial Area, Ghaziabad – 201009, India				India		04-09-25	4		TUV Rheinland UK Ltd
Location:		A-7/1/13 , Electro Steel Casting Compound, South Side of G.T.Road, Industrial Area, Ghaziabad – 201009, India								Rev.: 1	of : 4		
Cur-	Product grades (Materials-term / Materials-No.)	Product code or standard (Material Specification)	Delivery Cond.	Product Form (Article, Type of Product)	Product dimensions / quantity (Dimensions)				Weight max		Technical Specifications Requirements Technical Regulations	Original material manufacturers QMS Certificate / Remarks	
					Thickness mm		Ø mm		1=t / 2=kg				
					from	Up to	from	Up to	↓	result			
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10	
<p>The use of the materials according to Pressure Equipment Safety Regulations 2016 as amended is bound to the publication of designated standards 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 PESR must be observed for the use of material grades listed in column 2 to 4.</p>													
18	F304,F304L,F304H,F316,F316L F316H,F321,F321H,F347,F347H	ASME SA 965	AT	Flanges	2.77	180	12.7	2000				Flanges “ 150# to 2500# Bonnets “ 150# to 2500#	
19	F304,F304L,F316,F316L,F317 F321,F316Ti,F310,F317L,F904L	ASTM A 276 / ASTM A 479	AT	Rings	25	500	100	2000				 PMA for the use in pressure equipment is mandatory	
20	Gr.I, Gr.II,Gr.III, Gr.IV, Gr.V	ASME SA 765	QT/NT	Tubesheets	40	250	100	2000					
21	F5,F5A,F6,F9,F11,F22 F22V,F6NM,F91,F92	ASME SA 336		Nozzles	50	100	50	1000					
22	1.4006,1.4021	EN 10250-4	QT/NT	Bonnets	2.77	100	12.7	1000					
23	1.4057,1.4313	EN 10250-4	QT										
24	1.4104,1.4005	EN 10088-3	QT/AT										
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 PESR 2016 as amended necessary	