Technical Inspection Services



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Conditions of Issue:

Qualification castings as per API 20A 2nd Edition, August 2017, Addendum 2, APRIL 2020 have been produced, tested, and evaluated by the casting supplier and witnessed by the Surveyor to TUV India Pvt. Ltd. in order to establish qualification for a range of products listed in this Annexure.

The Manufacturing Procedure Specification (MPS) files as referenced below, submitted by the manufacturer, have been reviewed.

Manufacturing Procedure: Specification (MPS) ref.

Place: Mumbai, India

ACS/MPS-01/API20A/CSL3/B/Rev 00/Dt.10.9.20

Verification of Qualification Test Records : ACS/QTR/API20A/AS/01 Rev00

(QTR) nos.

This Certificate of Compliance is issued and is applicable only to the firm stated on above referred COC, and for the specified product, and/or the manufacturing plant stated and is Non-Transferable

Welding shall be performed using weld procedures qualified in accordance with ASME BPVC, Section IX for CSL-3.

This statement of compliance is valid only for those products which are covered in the QTR within the limits of CSL qualification.

This Certificate of Compliance is valid for 3 years from date of issue, i.e.till 14.05.2024 subject to satisfactory annual surveillance audits and within the limits of qualification of production castings for each CSL, and subject to manufacturer maintaining the same production processes including metal refining steps, maintaining the same process control variables, design and maintenance of patterns, same processes of inspection, quality control, marking, traceability and record retention (10 years) as per the requirements of API 20A.

This COC Does not Constitute Certification to API Monogram Program as per API Q1

Jayprakash Hiremath AVP- PED, ASME & Special service TUV India Pvt. Ltd.

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TUV India Pvt. Ltd., 801 Raheja Plaza, LBS Marg, Ghatkopar(W), Mumbai 400 086, India; inspection@tuv-nord.com

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Reference Standard	API 20A- 2nd Edition, August 2017, Addendum 2, APRIL. 2020					
API Material Group/ CSL Level	Group B- Low Alloy Steel /CSL-1,2&3					
Manufacturing Procedure Specification	ACS/MPS-01/API20A/CSL3/B/Rev 00/Dt.10.9.20					
Manufacturing Doc Ref	ACS/MQR-01/API20A/CSL3/B/Rev	00/Dt.14.5.21				
ASTM Ref.	ASTM A487 Gr.4D(UNS-J13047)					
Qualification Test Record No.	ACS/QTR/API20A/AS/01 Rev00					
	Tested and Qualified Weight R	ange				
Products and Manufacturing Processes	Tested Casting Weight Pounds (Kgs)	Qualified Casting weight Pounds(Kgs)				
Body GV,MOD M,2 9/16"3/5M FE Steel Castings and Co2 sand	233.02(105.70)	1 - 499 (1-226)				

Jayprakash Hiremath

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AVP- PED, ASME & Special services.

TUV India Pvt. Ltd.

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Table 2—Material Groups

0-2-1-11
Description
Carbon steels
Low alloy steels
steels (other than duplex)
plex stainless steels
CRA

Table 1—As-cast Weight Range

		As-cast Weight in I	Pounds (kilogram)	<u> </u>	
CSL	1-499	500-2,499	2,500-9,999	10,000+	
CSL-1		1 Qu	alification	76. 1777	
CSL-2	1 Qualification		1 Qualification		
CSL-3	1 Qualification	1 Qualification			
CSL-4	Weights are not applicable for CSL 4. Each		1 Qualification	1 Qualification	

Table 3—Casting Weld Repair Limitations

CSL	% Surface Area	% Wall Thickness
CSL-1	50 %	50 %
CSL-2	25 % F GEG	25 %
CSL-3	20 %	2.
CSL-4	10 %	20 %







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Table 4—Guidance for Qualification Examination/Testing Requirements

CSL Visu		Section References									
	Visual	Inspection	Hardness	Surface	Volumetric NDE	Mechanical	Micro- structure	Sacrificial Casting	Chemistry	Additiona	
CSL-1	4.5.2	4.5.3	4.5.4	_	_	4.5.6		Casary	4.5.8	4.5.9.3	
CSL-2	4.5.2	4.5.3	4.5.4	4.5.5.1 4.5.5.2	-	4.5.6		-	4.5.8	Group D 4.5.9.3	
CSL-3	4.5.2	4.5.3	4.5.4	4.5.5.1 4.5.5.2	4.5.5.3	4.5.6	4.5.7		4.5.8	Group D 4.5.9.3	
CSL-4	4.5.2	4.5.3	4.5.4	4.5.5.1 4.5.5.2	4.5.5.3	4.5.6	4.5.7	4.5.9.2	4.5.8	Group D 4.5.9.3 Group D	

Table 9—Limits of CSL Production Casting Summary

Requirement	Ref.	CSL 1	T 001 5 T		
ASTM keel block	Figure 4, Figure 5		CSL 2	CSL 3	CSL-4
Equivalent round or integral test specimen		X	X	-	12
	Figure 1, Figure 2, Figure 3	X	X	X	17
Sacrificial casting	4.5.9.2	1	-	10	12
Change in material group			-	1-	X
Revision or new pattern	5.7.1.1	X	X	X	X
	5.7.1.2	X	X	X	X
Pattern is re-rigged	5.7.1.3	X	X	-	1
Change in risers or padding	5.7.1.3			X	X
Change in external chills		X	X	X	X
As-cast weight range class	5.7.1.3	X	X	X	X
Casting practice	5.7.2.2	-	X	X	X
	5.7.2.3	7	X	X	
Chemistry tolerance outside the UNS range by greater than 15 %	5.7.4.3	T. File	161	20	X
	THE WALL	Carry.	120	7	X
Change in melt practice	5.7.3.2	_		-	
Material specification/grade	5.7.4.2		1	X	X
NOTE: This table provides a matrix of require		-	_	-	X

NOTE: This table provides a matrix of requirements and should be used as a reference only since it may not include all requirements.

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