

## STATEMENT OF COMPLIANCE

SoC No. TUV/9309/23-24/API 20A/0002

Job No: 8120974609

### **Foundry Qualification for Castings for Use in the Petroleum and Natural Gas Industries**

As per API – 20A, 2nd Edition, August 2017

Addendum 1, September 2018 & Addendum 2, April 2020

**Name & Address Manufacture: INVAC CAST LTD.**

BLOCK / SURVEY NO. 444 TO 453 & 455, NANA FOFADIYA ROAD,  
VILLAGE: BAMANGAM, VADODARA – 391210, GUJARAT, INDIA

This Statement of Compliance is issued upon the request of the manufacturer to certify that the manufacturer has demonstrated compliance to the foundry qualification requirements of specification **API – 20A, 2nd Edition, August 2017 (Addendum referred above) “Carbon Steels, Low Alloy Steels, Stainless Steels (other than Duplex), Duplex Stainless Steels and Nickel Base Alloy Castings for use in the Petroleum and Natural Gas Industry – Upstream Segment”** to the Casting Specification Levels (CSL) given below;


Material Group / CSL qualified (See Annexure - I for details)	Material Group	Description	CSL Level
	Group A	Carbon Steels	CSL – 1,2,3
	Group B	Low Alloy Steels	CSL – 1,2,3
	Group C	Stainless Steels (Other than Duplex)	CSL – 1,2,3
	Group D	Duplex Stainless Steels	CSL – 1,2,3
	Group E	Corrosion Resistant Alloys (CRA)	CSL – 1,2,3

The Manufacturer’s Manufacturing Procedure Specifications (MPSs) & Qualification Test Records (QTRs) have been evaluated and Qualification Casting Tests witnessed and found to be in compliance with the requirements of API – 20A, 2nd Edition(Addendum referred above) within the scope and subject to conditions as per Annexure – I. This Statement of Compliance dose not exempts the manufacturer from its responsibility to ensure that its products are always in compliance with API and customer specification requirements. (See Annexure-I for details)

Place: Pune, India

Date of Issue: 19/04/2023

Validity: 18/04/2026

  
Mr. Jayaprakash Hiremath  
AVP- PED, ASME, TRCU, CCOE,  
UKCA & Special Inspection Services



**Condition of Issue:**

Qualification castings as per **API-20A 2<sup>nd</sup> Edition, August-2017. Addendum-1, 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.

<b>Manufacturing Procedure Specification (MPS) ref.</b>	<b>Verification of Qualification Test Records</b>
MPS-01	QTR / MPS-01, Rev. 00
MPS-02	QTR / MPS-02, Rev. 00
MPS-03	QTR / MPS-03, Rev. 00
MPS-04	QTR / MPS-04, Rev. 00
MPS-05	QTR / MPS-05, Rev. 00

This Statement 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 and personnel qualified in accordance with

- CSL-1 & CSL-2: ASME BPVC, Section IX, ISO 15614-1, ISO 9606-1, AWS D1.1, ASTM A488 or equivalent standards.
- CSL-3: ASME BPVC. Section IX, ISO 15614-1, or ISO 9606-1.

The Statement of compliance is valid only for those products which are covered in the QTR within the limit of CSL qualification.

The Statement of Compliance is valid for 3 years from the date of issue, subject to satisfactory annual surveillance audits and within the limits of qualification of production castings for each CSL and subject to manufacture 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 requirements of API 20A. This SOC does not Constitute Certification of API Monogram Program as per API Q1.

Place: Pune, India

Date of Issue: 19/04/2023

Validity: 18/04/2026

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AVP- PED, ASME, TRCU, CCOE,  
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<b>Reference Standard</b>	API – 20A, 2nd Edition, August 2017		
<b>API Material Group / CSL Level</b>	Group A (Carbon Steels) / CSL – 1,2,3		
<b>Manufacturing Process Specification</b>	MPS-01, Rev, 00		
<b>ASTM Reference</b>	ASTM A216 Gr. WCB		
<b>Qualification Test Record No.</b>	QTR/ MPS-01, Rev. 00		
<b>Tested and Qualified Weight Range</b>			
<b>Product and Manufacturing Process</b>	<b>Tested Thickness (mm)</b>	<b>Tested Casting Weight (Kgs.)</b>	<b>Qualified Weight Range Kgs. (Pounds)</b>
2" # 600 GTV Body	36	29.00	CSL-3: 1 – 226 Kgs. (1 – 499 Pounds) CSL-2: 1 – 1134 Kgs. (1 – 2499 Pounds) CSL-1: All Weight Ranges



Annexure – I to SOC No: TUV/9309/23-24/API 20A/0002

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<b>Reference Standard</b>	API – 20A, 2nd Edition, August 2017		
<b>API Material Group / CSL Level</b>	Group B (Low Alloy Steels) / CSL – 1,2,3		
<b>Manufacturing Process Specification</b>	MPS-02, Rev. 00		
<b>ASTM Reference</b>	ASTM A217 Gr. WC6		
<b>Qualification Test Record No.</b>	QTR/MPS-02, Rev. 00		
<b>Tested and Qualified Weight Range</b>			
<b>Product and Manufacturing Process</b>	<b>Tested Thickness (mm)</b>	<b>Tested Casting Weight (Kgs.)</b>	<b>Qualified Weight Range Kgs. (Pounds)</b>
2" # 600 GTV Body	36	29	CSL-3: 1 – 226 Kgs. (1 – 499 Pounds) CSL-2: 1 – 1134 Kgs. (1 – 2499 Pounds) CSL-1: All Weight Ranges

<b>Reference Standard</b>	API – 20A, 2nd Edition, August 2017		
<b>API Material Group / CSL Level</b>	Group C (Stainless Steel – other than Duplex) / CSL – 1,2,3		
<b>Manufacturing Process Specification</b>	MPS-03, Rev. 00		
<b>ASTM Reference</b>	ASTM A351 Gr. CF8M		
<b>Qualification Test Record No.</b>	QTR/MPS-03, Rev. 00		
<b>Tested and Qualified Weight Range</b>			
<b>Product and Manufacturing Process</b>	<b>Tested Thickness (mm)</b>	<b>Tested Casting Weight (Kgs.)</b>	<b>Qualified Weight Range Kgs. (Pounds)</b>
2" # 600 GTV Body	36	29	CSL-3: 1 – 226 Kgs. (1 – 499 Pounds) CSL-2: 1 – 1134 Kgs. (1 – 2499 Pounds) CSL-1: All Weight Ranges



<b>Reference Standard</b>	API – 20A, 2nd Edition, August 2017		
<b>API Material Group / CSL Level</b>	Group D (Duplex Stainless Steel) / CSL – 1,2,3		
<b>Manufacturing Process Specification</b>	MPS-04, Rev. 00		
<b>ASTM Reference</b>	ASTM A Gr. 4A (CD3MN)		
<b>Qualification Test Record No.</b>	QTR/MPS-04, Rev. 00		
<b>Tested and Qualified Weight Range</b>			
<b>Product and Manufacturing Process</b>	<b>Tested Thickness (mm)</b>	<b>Tested Casting Weight (Kgs.)</b>	<b>Qualified Weight Range Kgs. (Pounds)</b>
2" # 600 GTV Body	12	22.500	CSL-3: 1 – 226 Kgs. (1 – 499 Pounds) CSL-2: 1 – 1134 Kgs. (1 – 2499 Pounds) CSL-1: All Weight Ranges

<b>Reference Standard</b>	API – 20A, 2nd Edition, August 2017		
<b>API Material Group / CSL Level</b>	Group E (Corrosion Resistant Alloys - CRA) / CSL – 1,2,3		
<b>Manufacturing Process Specification</b>	MPS-05, Rev. 00		
<b>ASTM Reference</b>	ASTM A351 Gr. CU5MCuC		
<b>Qualification Test Record No.</b>	QTR/MPS-05, Rev. 00		
<b>Tested and Qualified Weight Range</b>			
<b>Product and Manufacturing Process</b>	<b>Tested Thickness (mm)</b>	<b>Tested Casting Weight (Kgs.)</b>	<b>Qualified Weight Range Kgs. (Pounds)</b>
2" # 600 GTV Body	36	29	CSL-3: 1 – 226 Kgs. (1 – 499 Pounds) CSL-2: 1 – 1134 Kgs. (1 – 2499 Pounds) CSL-1: All Weight Ranges