

## STATEMENT OF CONFORMITY

**Product :** "As cast" or finish machined sand-cast pressure-retaining Valve Bodies, Bonnets and associated trim components in the following material groups:

- Carbon and Carbon-Manganese
- Martensitic Stainless Steel
- Austenitic Stainless Steel
- 22Cr Duplex Stainless Steel
- 25Cr Duplex Stainless Steel

**Manufacturer:** Brafe Engineering Ltd.  
**Location:** Grundisburgh Road, Woodbridge, Suffolk, IP13 6HX, United Kingdom  
**SOC No:** PP131384-LDN-SOC-1

This is to confirm that the casting process of the above noted products has been reviewed and found to comply with the following standard:

- **API Specification 20A (2012): Carbon steel , Alloy Steel, Stainless Steel Castings for Use in the Petroleum and Natural Gas Industry**

Based on Table 3 of the standard for examination of testing requirements for casting qualification, Casting Specification Level (CSL) of 3 is given to the manufacture.

This statement of conformity is given subject to the witnessing the following casting qualification testing for material Group A, B, C and D (ref. Table 1 of API 20A standard) as per requirement listed in section 4.4 of the above standard.

Required casting qualification testing are:

- Visual Examination
- Dimensional Inspection
- Hardness Testing
- Non-destructive Examination
  - Magnetic Particle Examination
  - Liquid Penetrant Examination
- Volumetric Examination
  - Test method: Radiographic Examination
- Mechanical Testing
  - Tensile test
  - Charpy test
- Microstructure Examination
- Corrosion testing in accordance with ASTM G48, Method A

The material types listed below and the test results are appended.

**Folder:**  
**PP131384/R3**  
**Cert No:**  
**PP131384-1**

Material Group	Description	Typical Examples	Grades applied by Brafe
Group A	Carbon steels	ASTM A216	ASME SA216: WCA, WCB, WCC ASME SA352: LCB, LCC
Group B	Low alloy steels	A487M	ASME SA487: CA15, CA6NM
Group C	Stainless steels other than duplex	ASTM A351	ASME SA351: CF3, CF3M, CF8, CF8C, CF8M, CG3M, CG8M, CN7M, CK3MCuN
Group D	Duplex Stainless steels	Duplex and super duplex stainless steel ASTM A995	ASME SA995: 4A CD3MN ASME SA995: 6A CD3MWCuN

**Scope of conformity:**

This statement is limited to the casting of the pressure-retaining Valve Bodies, Bonnets and associated trim components of Brafe Engineering.

**The supporting documents:**

Document No.	Description
Brafe DNV-GL Dossier 1.1-2.1	
Brafe DNV-GL Dossier 3.1	General Manufacturing Information
Brafe DNV-GL Dossier 3.2	Product Information
Brafe DNV-GL Dossier 3.3-3.4	Manufacturers' Own Certification
Brafe DNV-GL Dossier 4.1	Approval Testing Procedures
Brafe DNV-GL Dossier 4.2 & 4.2.1	Approval Testing Results
Brafe DNV-GL Dossier 4.2.2	25-Cr Duplex Stainless Steels
Brafe DNV-GL Dossier 4.2.3	22-Cr Duplex Stainless Steels
Brafe DNV-GL Dossier 4.2.4	Martensitic Stainless Steels
Brafe DNV-GL Dossier 4.2.5	Carbon Steels
Brafe DNV-GL Dossier 4.3 part 2	Heat Treatment Oven 3
Brafe DNV-GL Dossier 4.3 part 1	Calibration Certificates
Brafe DNV-GL Dossier 4.3	Calibration Certificates
Brafe DNV-GL Dossier 4.4	Personal Qualifications
T600680	Test Certificate : Material ASME SA351-15 CF8M
T600688	Test Certificate : Material ASME SA352 CA6NM
T600689	Test Certificate : Material ASME SA995 4A
T600697	Test Certificate : Material ASME SA352 LCC
T600698	Test Certificate : Material ASME SA995 J93380



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