FULL QUALITY ASSURANCE CERTIFICATE

Certificate No.:
112212-2012-CE-ITA-ACCREDIA

Initial date:
29 February, 2012

Validity:
19 June, 2025 – 17 May, 2027

This certificate consists of 6 pages

This is to certify that the quality system of:

B.F.E. S.r.l.

Via Tonale, 70/A - 24061 Albano Sant'Alessandro (BG) - Italy

has been assessed and found to comply with respect to the conformity assessment procedure described in:

ANNEX III MODULE H OF DIRECTIVE 2014/68/EU ON PRESSURE EQUIPMENT

This certificate is valid for the following scope:

Type of Pressure Equipment	**Pressure Accessory**
Product Name	**Valves, spacer spools and strainers**

Place and date:
Vimercate, 19 June, 2025

Check Validity

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

SGQ N° 003 A
SGA N° 003 D
SGE N° 007 M
SCR N° 004 F
EMAS N° 009 P
PRD N° 003 B
PRS N° 094 C
SSI N° 002 G

Membro di MLA EA per gli schemi di accreditamento SGQ, SGA, PRD, PRS, ISP, GHG, LAB e LAT, di MLA IAF per gli schemi di accreditamento SGQ, SGA, SSI, FSM e PRD e di MRA ILAC per gli schemi di accreditamento LAB, MED, LAT e ISP

For the issuing office:
Notified Body 0496, Italy
DNV Business Assurance Italy S.r.l.

Maurizio Bellina
Management Representative

Jurisdiction

Application of Directive 2014/68/EU and Decreto Legislativo n. 26 of 15 February 2016.

Certificate history:

Revision	Description	Issue Date
00	Original certificate	29 February, 2012
01	Renewal	22 June 2012
02	Change of company name, 15 materials added to particular material appraisal table	20 February 2014
03	Renewal	26 May 2015
04	Reissued with reference to 2014/68/EU	23 October 2017
05	Renewal of certificate and scope extension for ball valves; up to 48”	08 May, 2018
06	Added N° 3 materials in Table 1; have been subject to particular material appraisal.	12 August, 2019
07	Renewal	30 April, 2021
08	PMA Table updated	14 March, 2023
09	PMA Table updated	25 May, 2023
10	Renewal	12 April, 2024
11	PMA Table updated	19 June, 2025

Products covered by this Certificate:

Product Name	Product Description	Type of material	Applied product standard
Valves, spacer spools and strainers	Gate, globe and check valves and combination valves, double block & bleed and strainers up to 48” Ball valves up to 48” Spacer spools up to 24”	Carbon steel/low alloy steel ferritic steel/martensitic steel/austenitic steel/ duplex and super duplex steel/nickel & nickel alloy/ aluminium-bronze/titanium	API Std. 600, 602, 603 & 608API Specifications 6A & 6D, ASME B16.34, ASME VIII, BS 1868, 1873, 5154, 5352& 6364, ISO 14313, EN ISO 15761, 17292, EN 12516 & 12228

Particular material appraisal

The materials listed in Table 1 have been subject to particular material appraisal.

Table 1

Detail	Specification	Grade
Body, bonnet, nipples	ASTM A 105	
	ASTM A182	F1, F5, F5a, F9, F91, F11, F11 cl2, F21, F22 cl.3, F44, F51, F304, F304L, F310MoLN, F304H, F316, F316L, F316H, F317, F317L, F321, F321H, F347, F347H, F55, F53, F60 (S32205), F22mod.60K, F12 cl.2, F904L(N08904)
	ASTM A216	WCB (J03002)
	ASTM A350	LF2, LF3
	ASTM A494	N-12MV(1), N-7M, CW-2M, CW-12MW(1), CW-6MC, Cu5McuC(N08826)
	ASTM A694	F42(2)
	ASTM A757	D1Q1(3), D1Q2(3)
	ASTM B148	UNS 95400(4)
	ASTM B366	WP1925, WPHC4
	ASTM B381	F2

	ASTM B462	UNS N08020, N08028(modified)(5)
	ASTM B564	UNS N04400, N06600, N06625, N08800, N08810, N08811, N08825
	ASTM A29/API6A	AISI 4130 (G41300)
	EN 10222-4 AD-W13 Vd TUV 354/3	1.0565 (P355NH), 1.0566 (P255NL1)
	EN 10222-2	1.0460 (P250GH), 1.7335(13CrMo4-5)(6), 1.5415(16Mo3),1.4922(X20CrMoV11-1), 1.7383(11CrMo9-10) (8)
	DIN 17743	NiCu30Al(2.4375)(7)
	EN 10028-2 AD-W13 Vd TUV 007/3	1.7362(X12CrMo5)
	EN10222-2 AD-W13 Vd TUV 511/3	1.4903(X10CrMoVnb9-1)
	ASTM A106	B
	ASTM A312	TP304-L, TP304-H, TP316L, TP347-H, TP321-H
	ASTM A333	6
	ASTM A335	P11, P22, P5, P9, P91
	EN 10088.3	1.4435
	ASTM A565M	616 condition HT / UNS S42200
	EN 10222-5	1.4301 (X5CrNi18-10), 1.4306 (X2CrNi19-11), 1.4307 (X2CrNi18-9), 1.4462 (X2CrNiMoN22-5-3), 1.4410 (X2CrNiMoN25-7-4) (8), 1.4435 (X2CrNiMo 18-14-3) (6), 1.4571 (X6CrNiMoTi17.12.2) (6), 1.4541 (X6CrNiTi18.10) (6), 1.4539 (X1NiCrMoCu25-20-5) (6)
	EN 10028-2 AD-W13	1.6368(15NiCuMoNb5-6-4)

	Vd TUV 377/3	
	EN 10216-2 AD-W13 Vd TUV 552/3	1.4901(X10CrWMoVNb9-2)
	EN 10088-3	1.4580 (X6CrNiMoNb17-12-2) (6)
	EN 10273	1.7380 (10CrMo9-10) (6)
	ASTM B148	C95800
	ASTM A217 / API 6A	A217 WC9 (J21890)
	ASTM A217 / API 6A	A217 WC6 (J12072)
	ASTM A352 / API 6A	A352 LCC (J02505)
	ASTM A352 / API 6A	A352 LCB (J03003)
	ASTM A494 / API 6A	A494 CY-40 (N06040)
	ASTM A351 / API 6A	CN7M
	ASTM A351 / API 6A	A351 CK-3MCuN (J93254)
	ASTM A351 / API 6A	A351 CF-8M (J92900)
	ASTM A351 / API 6A	A351 CF-8C (J92710)
	ASTM A351 / API 6A	A351 CF8 (J92600)
	ASTM A351 / API 6A	A351 CF-3M (J92800)
	ASTM A217 / API 6A	A217 CA15 (J91150)
	ASTM A995 / API 6A	A995 GR 6A (J93380)
	ASTM A995 / API 6A	A995 GR 5A (J93404)
	ASTM A995 / API 6A	A995 GR 4A (J92205)
	EN 10272	1.4539
	ASTM F3184	Grade S31603 Condition A
	ASTM F3055	UNS N07718 Class A
Bolting materials	ASTM A193	B7, B7M, B16, B8, B8 cl.2, B8A, B8C, B8M cl.2, B8MA, B8T
	ASTM A320	L7, L7M, B8 cl.2, B8M cl.2, B8A, B8MA
	ASTM A453	660A

Remarks

- (1) nominal design stress <Rm/4,5 (Rm is defined as tensile strength);
- (2) supplementary requirement No. S5 is required. Min. 27 J at min design temperature;
- (3) requirement No. S22 is required. Min. 27 J at min design temperature;
- (4) the nominal design stress should not exceed the lowest of the following values: ReH/3 and Rm/4,5 (ReH is yield strength and Rm is tensile strength);
- (5) this material is not specified in ASTM B462. The chemical composition and mechanical properties are to be in accordance with material grade X1NiCrMoCu31-27-4 in accordance with EN10088-1;
- (6) the sampling is to be in accordance with EN10222-1;
- (7) the sampling is to be in accordance with ASTM B 564;
- (8) harmonized materials which are subject to PMA because used with limitations shown in specific PMA documents dated 2011-10-27 and 2011-12-15.

The materials are found to be acceptable under the following conditions

- mechanical and chemical requirements in the product standard must be complied with;
- the maximum stresses shall not exceed those allowed by the product standard;
- all testing specified in the product standard additional to the testing specified in the material standard must be carried out, with test results acceptable also to the product standard;
- documentation of materials is assumed to comply with PED annex 1 section 4.3;
- impact testing to be foreseen for ASTM steels that may have brittle behaviour.

Sites covered by this certificate

Site Name	Site Address	Audited by	Date	Report ref
B.F.E. S.r.l.	Via Tonale, 70/A - 24061 Albano Sant'Alessandro (BG) - Italy	Paolo Marchini Milan/PA	25-26-27-28 March, 2024	PRJC-413270 PRJN-239758_2024-03-28_RP_RC_00

Terms and conditions

Valid terms and conditions are found in the DNV´s PED Certification Requirements

End of Certificate