



Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

Bonney Forge
BFE Srl
BF
BFE

STATUTORY DECLARATION Registration of Fittings

I, Joshua Launtz, Lead Product Engineer

(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Bonney Forge, Bonney Forge Europe (BFE Srl)

(Name of Manufacturer)

Located at 14496 Croghan Pike, Mount Union, PA 17066
Via Tonale 70/A - 24061 Albano Sant'Alessandro (BG), Italy 814-542-2545 814-542-9977
(Plant Address) (Telephone No.) (Fax No.)

☒ do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of
ASME B16.34, API 608, & ISO 17292 or API 6D (as applicable), ASME, ASTM, API 598
(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

☐ or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001
PED, ATEX which has been verified by the following authority, DNV GL.

The items covered by this declaration, for which I seek registration, are category C type fittings. In support of this application, the following information and/or test data are attached as follows:

SAMPLE DRAWINGS & CALCULATIONS, ISO 9001 & PED CERTIFICATIONS, FORGED FLOATING BALL VALVE CATALOG

(drawings, calculations, test reports, etc.)

Declared before me at 14496 Croghan Pike, Mt. Union in the State of Pennsylvania
the 8th day of August AD 2023.

Commissioner for Oaths:

Brooke A Piper
(Printed name)
[Signature]
(Signature)

Commonwealth of Pennsylvania - Notary Seal
BROOKE A PIPER - Notary Public
Huntingdon County
My Commission Expires Sep 25, 2023
Commission Number 1293522

[Signature]
(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category 'C'.

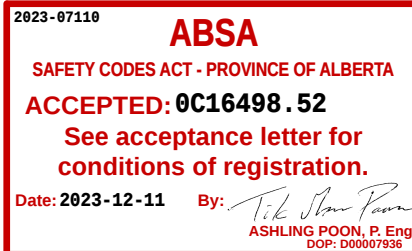
CRN: _____

Registered by: _____

Dated: 2023-12-11

2023-12-06

NOTE: This registration expires on: _____



This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.

PV 09553 (04/17) ** The scope of this registration include 10-years renewal. There is no design change, nor an scope change.

** See attached scope of registration.

Bonney Forge							
Design Submittal for CRN							
Minimum Wall Analysis - National Design Standard as follows:							
Floating Ball Valves - ASME B16.34, API 608							
Ball Valve							
ASME B16.34 material options:							
- A105N, A350 LF2 CL. 1 - A182 F5, F9, F91, F11 CL. 2, F22 CL. 3 - A182 F304/304L, 304/304H, 316/316L, 316/316H, 317/317L, F321/321H, F347/347H - A182 F44, F51/F60 - UNS N08020, N04400, N10276, N06600, N06625, N08800, N08825, N10665				B462, B564			
Size	Design	Pressure Class	Fig. No.	Wall Thickness Evaluation			
				Inside Dia. (in.)	Min. Wall Actual (in.)	API 608 Min. Wall (in.)	ASME B16.34 Min. Wall (in.)
1/2	Full Bore 2 Piece	150	1 703	0.551	0.130	0.129	0.129
3/4			1 704	0.787	0.146	0.143	0.143
1			1 705	1.000	0.161	0.160	0.160
1 1/4			1 706	1.260	0.181	0.171	0.171
1 1/2			1 707	1.496	0.193	0.190	0.190
2			1 708	1.929	0.217	0.215	0.215
2 1/2			1 709	2.441	0.230	0.230	0.230
3			1 710	2.992	0.240	0.240	0.240
4			1 711	3.937	0.260	0.260	0.260
6			1 713	5.906	0.280	0.280	0.280
1/2	Full Bore Cryo. 2 Piece	150	1C 703	0.551	0.130	0.129	0.129
3/4			1C 704	0.787	0.146	0.143	0.143
1			1C 705	1.000	0.161	0.160	0.160
1 1/4			1C 706	1.260	0.181	0.171	0.171
1 1/2			1C 707	1.496	0.193	0.190	0.190
2			1C 708	1.929	0.217	0.215	0.215
3			1C 710	2.992	0.240	0.240	0.240
4	Ful Bore Cryo. 3 Piece	150	1C 711	3.937	0.260	0.260	0.260
6			1C 713	5.906	0.280	0.280	0.280
1/2	Reduced Bore Cryo. 2 Piece	150	1CL 703	0.433	0.122	0.120	0.120
3/4			1CL 704	0.551	0.130	0.129	0.129
1			1CL 705	0.787	0.146	0.143	0.143
1 1/4			1CL 706	1.000	0.161	0.160	0.160
1 1/2			1CL 707	1.260	0.181	0.171	0.171
2			1CL 708	1.496	0.193	0.190	0.190
3	Reduced Bore Cryo. 3 Piece	150	1CL 710	1.929	0.217	0.215	0.215
4			1CL 711	2.992	0.240	0.240	0.240
6			1CL 713	3.937	0.260	0.260	0.260
1/2	Reduced Bore 3 Piece	150	L1 703	0.433	0.122	0.120	0.120
3/4			L1 704	0.551	0.130	0.129	0.129
1			L1 705	0.787	0.146	0.143	0.143
1 1/4			L1 706	1.000	0.161	0.160	0.160
1 1/2			L1 707	1.260	0.181	0.171	0.171
2			L1 708	1.496	0.193	0.190	0.190
2 1/2			L1 709	1.929	0.217	0.215	0.215
3			L1 710	2.441	0.230	0.230	0.230
4			L1 711	2.992	0.240	0.240	0.240
6			L1 713	3.937	0.260	0.260	0.260
8			L1 714	5.906	0.280	0.280	0.280
1/2	Full Bore 3 Piece	300	3 703	0.551	0.138	0.130	0.130
3/4			3 704	0.787	0.157	0.153	0.153
1			3 705	1.000	0.173	0.170	0.170
1 1/4			3 706	1.260	0.197	0.191	0.191
1 1/2			3 707	1.496	0.213	0.210	0.210
2			3 708	1.929	0.236	0.235	0.235
2 1/2			3 709	2.441	0.260	0.258	0.258
3			3 710	2.992	0.280	0.279	0.279
4			3 711	3.937	0.311	0.310	0.310
1/2	Full Bore Cryo. 3 Piece	300	3C 703	0.551	0.138	0.130	0.130
3/4			3C 704	0.787	0.157	0.153	0.153
1			3C 705	1.000	0.173	0.170	0.170
1 1/4			3C 706	1.260	0.197	0.191	0.191
1 1/2			3C 707	1.496	0.213	0.210	0.210
2			3C 708	1.929	0.236	0.235	0.235
3			3C 710	2.992	0.280	0.279	0.279
4			3C 711	3.937	0.311	0.310	0.310
1/2	Reduced Bore Cryo. 3 Piece	300	3CL 703	0.433	0.130	0.129	0.129
3/4			3CL 704	0.551	0.138	0.130	0.130
1			3CL 705	0.787	0.157	0.153	0.153
1 1/4			3CL 706	1.000	0.173	0.170	0.170
1 1/2			3CL 707	1.260	0.197	0.191	0.191
2			3CL 708	1.496	0.213	0.210	0.210
3			3CL 710	1.929	0.260	0.235	0.235
4			3CL 711	2.992	0.280	0.279	0.279

Bonney Forge							
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				B462, B564			
Size	Design	Pressure Class	Fig. No.	Wall Thickness Evaluation			
				Inside Dia. (in.)	Min. Wall Actual (in.)	API 608 Min. Wall (in.)	ASME B16.34 Min. Wall (in.)
1/2	Reduced Bore 3 Piece	300	L3 703	0.433	0.130	0.129	0.129
3/4			L3 704	0.551	0.138	0.130	0.130
1			L3 705	0.787	0.157	0.153	0.153
1 1/4			L3 706	1.000	0.173	0.170	0.170
1 1/2			L3 707	1.260	0.197	0.191	0.191
2			L3 708	1.496	0.213	0.210	0.210
2 1/2			L3 709	1.929	0.236	0.235	0.235
3			L3 710	2.441	0.260	0.258	0.258
4			L3 711	2.992	0.280	0.279	0.279
6			L3 713	3.937	0.311	0.310	0.310
1/2	Full Bore 3 Piece	600	6 703	0.551	0.150	0.149	0.149
3/4			6 704	0.787	0.169	0.163	0.163
1			6 705	1.000	0.193	0.190	0.190
1 1/4			6 706	1.260	0.209	0.201	0.201
1 1/2			6 707	1.496	0.220	0.220	0.220
2			6 708	1.929	0.248	0.245	0.245
2 1/2			6 709	2.441	0.283	0.275	0.275
3			6 710	2.992	0.323	0.309	0.309
1/2	Full Bore Cryo. 3 Piece	600	6C 703	0.551	0.150	0.149	0.149
3/4			6C 704	0.787	0.169	0.163	0.163
1			6C 705	1.000	0.193	0.190	0.190
1 1/4			6C 706	1.260	0.209	0.201	0.201
1 1/2			6C 707	1.496	0.220	0.220	0.220
2			6C 708	1.929	0.248	0.245	0.245
3			6C 710	2.992	0.323	0.309	0.309
2	Full Bore Cryo. 2 Piece	600	6C 708	1.929	0.248	0.245	0.245
3			6C 710	2.992	0.323	0.309	0.309
1/2	Reduced Bore Cryo. 3 Piece	600	6CL 703	0.433	0.142	0.139	0.139
3/4			6CL 704	0.551	0.150	0.149	0.149
1			6CL 705	0.787	0.169	0.163	0.163
1 1/4			6CL 706	1.000	0.193	0.190	0.190
1 1/2			6CL 707	1.260	0.209	0.201	0.201
2			6CL 708	1.496	0.220	0.220	0.220
3			6CL 710	1.929	0.283	0.245	0.245
2	Full Bore 3 Piece	600	6H 708	1.929	0.248	0.245	0.245
3			6H 710	2.992	0.323	0.309	0.309
3	Reduced Bore 3 Piece	600	6HL 710	1.929	0.283	0.245	0.245
1/2	Reduced Bore 3 Piece	600	L6 703	0.433	0.142	0.139	0.139
3/4			L6 704	0.551	0.150	0.149	0.149
1			L6 705	0.787	0.169	0.163	0.163
1 1/4			L6 706	1.000	0.193	0.190	0.190
1 1/2			L6 707	1.260	0.209	0.201	0.201
2			L6 708	1.496	0.220	0.220	0.220
2 1/2			L6 709	1.929	0.248	0.245	0.245
3			L6 710	2.441	0.283	0.275	0.275
4			L6 711	2.992	0.323	0.309	0.309
1/2	Full Bore High Temp. 2 Piece	800	H 703	0.551	0.168	0.163	0.163
3/4			H 704	0.787	0.198	0.192	0.192
1			H 705	1.000	0.232	0.230	0.230
1 1/2			H 707	1.496	0.263	0.241	0.241
3/8	Full Bore Cryo. 2 Piece	800	HC 702	0.433	0.155	0.152	0.152
1/2			HC 703	0.551	0.168	0.163	0.163
3/4			HC 704	0.787	0.198	0.192	0.192
1			HC 705	1.000	0.232	0.230	0.230
1 1/4			HC 706	1.260	0.251	0.241	0.241
1 1/2			HC 707	1.496	0.263	0.260	0.260
2			HC 708	1.929	0.287	0.285	0.285
1/2	Reduced Bore Cryo. 3 Piece	800	HCL 703	0.433	0.155	0.152	0.152
3/4			HCL 704	0.551	0.168	0.163	0.163
1			HCL 705	0.787	0.198	0.192	0.192
1 1/4			HCL 706	1.000	0.232	0.230	0.230
1 1/2			HCL 707	1.260	0.251	0.241	0.241
2			HCL 708	1.496	0.263	0.260	0.260
3			HCL 710	1.929	0.287	0.285	0.285

Bonney Forge

Design Submittal for CRN

Minimum Wall Analysis - National Design Standard as follows:

Floating Ball Valves - ASME B16.34, API 608

Ball Valve

ASME B16.34 material options:

- A105N, A350 LF2 CL. 1
- A182 F5, F9, F91, F11 CL. 2, F22 CL. 3
- A182 F304/304L, 304/304H, 316/316L, 316/316H, 317/317L, F321/321H, F347/347H
- A182 F44, F51/F60
- UNS N08020, N04400, N10276, N06600, N06625, N08800, N08825, N10665 B462, B564

THIS IS PART OF CRN
0C16498.5R1
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

Size	Design	Pressure Class	Fig. No.	Wall Thickness Evaluation			
				Inside Dia. (in.)	Min. Wall Actual (in.)	API 608 Min. Wall (in.)	ASME B16.34 Min. Wall (in.)
3/8	Full Bore 3 Piece	800	HN 702	0.433	0.155	0.152	0.152
1/2			HN 703	0.551	0.168	0.163	0.163
3/4			HN 704	0.787	0.198	0.192	0.192
1			HN 705	1.000	0.232	0.230	0.230
1 1/4			HN 706	1.260	0.251	0.241	0.241
1 1/2			HN 707	1.496	0.263	0.260	0.260
2			H 708	1.929	0.287	0.285	0.285
1/2	Reduced Bore 3 Piece	800	HLN 703	0.433	0.155	0.152	0.152
3/4			HLN 704	0.551	0.168	0.163	0.163
1			HLN 705	0.787	0.198	0.192	0.192
1 1/4			HLN 706	1.000	0.232	0.230	0.230
1 1/2			HLN 707	1.260	0.251	0.241	0.241
2			HLN 708	1.496	0.263	0.260	0.260
3			HL 710	1.929	0.287	0.285	0.285
3/8	Full Bore Cryo. 2 Piece	900	90HC 702	0.433	0.161	0.159	0.159
1/2			90HC 703	0.551	0.177	0.170	0.170
3/4			90HC 704	0.787	0.213	0.206	0.206
1	Full Bore Cryo. 3 Piece	900	90HC 705	1.000	0.252	0.250	0.250
1 1/4			90HC 706	1.260	0.272	0.261	0.261
1 1/2			90HC 707	1.496	0.283	0.280	0.280
3/8	Full Bore 3 Piece	900	90HN 702	0.433	0.161	0.159	0.159
1/2			90HN 703	0.551	0.177	0.170	0.170
3/4			90HN 704	0.787	0.213	0.206	0.206
1			90H 705	1.000	0.252	0.250	0.250
1 1/4			90H 706	1.260	0.272	0.261	0.261
1 1/2			90H 707	1.496	0.283	0.280	0.280
1/2	Reduced Bore 3 Piece	900	90HLN 702	0.433	0.161	0.159	0.159
3/4			90HLN 703	0.551	0.177	0.170	0.170
1			90HLN 704	0.787	0.213	0.206	0.206
1 1/4			90HLN 705	1.000	0.252	0.250	0.250
1 1/2			90HL 706	1.260	0.272	0.261	0.261
2			90HL 707	1.496	0.283	0.280	0.280
3/8	Full Bore Cryo. 3 Piece	1500	15HC 702	0.437	0.189	0.180	0.180
1/2			15HC 703	0.437	0.189	0.180	0.180
3/4			15HC 704	0.610	0.232	0.208	0.208
1			15HC 705	0.827	0.256	0.253	0.253
1 1/4			15HC 706	1.339	0.354	0.345	0.345
1 1/2			15HC 707	1.339	0.354	0.345	0.345
2			15HC 708	1.693	0.425	0.411	0.411
3/8	Full Bore 3 Piece	1500	15H 702	0.437	0.189	0.180	0.180
1/2			15H 703	0.437	0.189	0.180	0.180
3/4			15H 704	0.610	0.232	0.208	0.208
1			15H 705	0.827	0.256	0.253	0.253
1 1/4			15H 706	1.339	0.354	0.345	0.345
1 1/2			15H 707	1.339	0.354	0.345	0.345
2			15H 708	1.693	0.425	0.411	0.411
3/8	Full Bore 3 Piece	2500	25H 702	0.437	0.260	0.249	0.249
1/2			25H 703	0.437	0.260	0.249	0.249
3/4			25H 704	0.610	0.343	0.307	0.307
1			25H 705	0.827	0.386	0.386	0.386
3/8	Full Bore 3 Piece	2500	25HC 702	0.437	0.260	0.249	0.249
1/2			25HC 703	0.437	0.260	0.249	0.249
3/4			25HC 704	0.610	0.343	0.307	0.307
1			25HC 705	0.827	0.386	0.386	0.386