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www.tssa.org

July 24, 2023

ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 14008688
Your Reference No.: 0A1017.9 - FITTING RENEWAL - R-1457 REV. 0 - ON & AB
Registered to: FELKER BROTHERS CORPORATION

Dear SCOTT ISLIP,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN : 0A1017.95R2
Main Design No.: Buttwelding Fittings per Scope of Registration
Expiry Date: Mar 31, 2033

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

The stamped copy of the approved registration and the invoice are mailed separately (There will be no hard copies for electronic submissions). Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Zivko Gacevic , P. Eng.
Engineer, BPV
Tel. : +1 416-734-3429
Email : zgacevic@tssa.org



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
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Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



STATUTORY DECLARATION Registration of Fittings

I, Josh Bohman, Quality Manager
(Name and Position, e.g. President, Plant Manager, Chief Engineer)
 of Felker Brothers Corporation
(Name of Manufacturer)

Located at 22 North Chestnut Avenue, Marshfield, WI, 54449 715-384-3121
(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 B16.9, MSS SP-43
(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 9001:2015 which has been verified by the following authority, HSB

The items covered by this declaration, for which I seek registration, are category A - BUTTWELDING FITTINGS type fittings. In support of this application, the following information and/or test data are attached as follows:
SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS
(drawings, calculations, test reports, etc.)

Declared before me at Marshfield in the state of Wisconsin
 the 2 day of March AD 2023.

Commissioner for Oaths:

Jordan Reynolds
(Printed name)
Jordan Reynolds
(Signature)

Jordan C. Reynolds
 Notary Public, State of Wisconsin

Josh Bohman
(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 'A'

CRN: _____

Registered by: _____

Dated: _____

NOTE: This registration expires on: Mar. 31, 2033

Technical Standards and Safety Authority
 Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0A1017.95R2

Signed: Jacques Zube

Date: July 24, 2023.

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

FELKER BROTHERS CORPORATION

22 NORTH CHESTNUT AVENUE
MARSHFIELD, WI
54449, USA



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0A1017.95R2
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
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28-Feb-23

PAGE 1 OF 6

SCOPE OF CRN REGISTRATION

Product Description	Drawing(s)	Available Design Code	Allowable Materials of Construction	Design Report
Buttwelding Fittings	DS-1367 R.0	ASME B16.9	Material Group No. 2 Austenitic and duplex stainless steel	R-1457 Rev. 0
	DS-1368 R.0 DS-1369 R.0	MSS SP-43	ASTM A403/A403M and ASTM A815/A815 ASTM A403 CR or any other material acceptable under MSS SP-43 para. 6.	

**MSS SP-43 fittings have a pressure rating requirement equal to 30% of ASME B16.9 fittings.
See Note 1 and 2 below regarding ASME B16.9 and MSS SP-43 pressure-temperature ratings.**

SCOPE OF SUPPLY

Code of Construction:		ASME B16.9		Code of Construction:		MSS SP-43	
Product Type		90 and 45 Degree LR Elbows		Product Type		90 and 45 Degree LR Elbows	
Elbow Size (in.)	Wall Thickness			Elbow Size (in.)	Wall Thickness		
	Sch.	Sch.	Sch.		Sch.	Sch.	Sch.
2	5S	10S	40S	2	5S	10S	40S
2.5	5S	10S	40S	2.5	5S	10S	40S
3	5S	10S	40S	3	5S	10S	40S
4	5S	10S	40S	4	5S	10S	40S
5	5S	10S	40S	5	5S	10S	40S
6	5S	10S	40S	6	5S	10S	40S
8	5S	10S	40S	8	5S	10S	40S
10	5S	10S	40S	10	5S	10S	40S
12	5S	10S	40S	12	5S	10S	40S
14	5S	10S	40S	14	5S	10S	40S

16	5S	10S	40S	16	5S	10S	40S
18	5S	10S	40S	18	5S	10S	40S
20	5S	10S	40S	20	5S	10S	40S
24	5S	10S	40S	24	5S	10S	40S
30	5S	10S	40S				

Code of Construction:				ASME B16.9				Code of Construction:				MSS SP-43			
Product Type				Concentric and Eccentric Reducers - Bell Shaped				Product Type				Concentric and Eccentric Reducers - Bell Shaped			
Reducer Size (in.)		Wall Thickness						Reducer Size (in.)		Wall Thickness					
		Sch.		Sch.		Sch.				Sch.		Sch.		Sch.	
3x1.5		5S		10S				3x1.5		5S		10S			
3x2		5S		10S				3x2		5S		10S			
4x2		5S		10S				4x2		5S		10S			
4x2.5				10S				4x2.5				10S			
4x3		5S		10S				4x3		5S		10S			
6x3		5S		10S				6x3		5S		10S			
6x4		5S		10S				6x4		5S		10S			
8x4		5S		10S				8x4		5S		10S			
8x6		5S		10S				8x6		5S		10S			
10x6		5S		10S				10x6		5S		10S			
10x8		5S		10S				10x8		5S		10S			
12x8		5S		10S				12x8		5S		10S			
12x10		5S		10S				12x10		5S		10S			

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 0A1017.95R2
 Technical Standards and Safety Authority
 Boilers and Pressure Vessels Safety Program

Code of Construction:				ASME B16.9				Code of Construction:				MSS SP-43			
Product Type				Concentric and Eccentric Reducers - Cone Shaped				Product Type				Concentric and Eccentric Reducers - Cone Shaped			
Reducer Size (in.)		Wall Thickness						Reducer Size (in.)		Wall Thickness					
		Sch.		Sch.		Sch.				Sch.		Sch.		Sch.	
12x8		5S		10S		40S		12x8		5S		10S		40S	
12x10		5S		10S		40S		12x10		5S		10S		40S	
14x8						40S		14x8						40S	
14x10		5S		10S		40S		14x10		5S		10S		40S	
14x12		5S		10S		40S		14x12		5S		10S		40S	
16x12		5S		10S		40S		16x12		5S		10S		40S	

16x14	5S	10S	40S	16x14	5S	10S	40S
18x14	5S	10S	40S	18x14	5S	10S	40S
18x16	5S	10S	40S	18x16	5S	10S	40S
20x16	5S	10S	40S	20x16	5S	10S	40S
20x18	5S	10S	40S	20x18	5S	10S	40S
24x18	5S	10S	40S	24x18	5S	10S	40S
24x20	5S	10S	40S	24x20	5S	10S	40S
30x20	5S	10S	40S				
30x24	5S	10S	40S				
36x24			40S				
36x30	3/16						
36x30	1/4						
36x30	3/8						
36x30	1/2						
36x30	5/8						

THIS IS PART OF CRN
0A1017.95R2
 Technical Standards and Safety Authority
 Boilers and Pressure Vessels Safety
 Program

Code of Construction:		ASME B16.9			Code of Construction:		MSS SP-43	
Product Type		Teas			Product Type		Teas	
Tee Size (in.)	Wall Thickness			Tee Size (in.)	Wall Thickness			
	Sch.	Sch.	Sch.		Sch.	Sch.	Sch.	
3x3x3				3x3x3	5S	10S		
3x3x2.5				3x3x2.5	5S	10S		
3x3x2				3x3x2	5S	10S		
4x4x4				4x4x4	5S	10S		
4x4x3				4x4x3	5S	10S		
4x4x2				4x4x2	5S	10S		
6x6x6				6x6x6	5S	10S		
6x6x4				6x6x4	5S	10S		
6x6x3				6x6x3	5S	10S		
8x8x8				8x8x8	5S	10S		
8x8x6				8x8x6	5S	10S		
8x8x4				8x8x4	5S	10S		
10x10x10				10x10x10	5S	10S		
10x10x8				10x10x8	5S	10S		
10x10x6				10x10x6	5S	10S		

12x12x12		12x12x12	5S	10S
12x12x10		12x12x10	5S	10S
12x12x8		12x12x8	5S	10S
14x14x14		14x14x14	5S	10S
14x14x12		14x14x12	5S	10S
14x14x10		14x14x10	5S	10S
16x16x16		16x16x16	5S	10S
16x16x14		16x16x14	5S	10S
16x16x12		16x16x12	5S	10S
18x18x18		18x18x18	5S	10S
18x18x16		18x18x16	5S	10S
18x18x14		18x18x14	5S	10S
20x20x20		20x20x20		10S
20x20x18		20x20x18		10S
20x20x16		20x20x16		10S
24x24x24		24x24x24		10S
24x24x20		24x24x20		10S
24x24x18		24x24x18		10S

Note 1: ASME B16.9 Pressure-temperature ratings are in accordance with ASME B16.9 para. 2.1 which states:

2.1 Basis of Ratings

The allowable pressure ratings for fittings designed in accordance with this Standard may be calculated as for straight seamless pipe of equivalent material (as shown by comparison of composition and mechanical properties in the respective material specifications) in accordance with the rules established in the applicable sections of ASME B31, Code for Pressure Piping. For the calculation, applicable data for the pipe size, wall thickness, and material that are equivalent to that of the fitting shall be used. Pipe size, wall thickness (or schedule number), and material identity on the fittings are in lieu of pressure rating markings.

THIS IS PART OF CRN
0A1017.95R2
 Technical Standards and Safety Authority
 Boilers and Pressure Vessels Safety
 Program

Note 2: MSS SP-43 Pressure-temperature ratings are in accordance with ASME MSS SP-43 para. 3.1 which states:

3.1 Fittings covered by this Standard Practice are primarily intended for corrosion resistant applications; however, they shall have a pressure rating equal to 30% of the allowable pressure rating for comparable straight seamless pipe of the same wall and grade of material as marked on the fittings, whose ratings are determined by the applicable ASME B31 Code for Pressure Piping.

Note 3: Products that are to operate at low temperatures shall conform to the rules of the applicable codes under which they are used.

Note 4: See ISO 9001:2015 Certificate attached for list of manufacturing locations covered under this CRN.

THIS IS PART OF CRN
0A1017.95R2
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

The certified activities are also performed by these sites:

**Fabrication & Piping Division
1707 East 4th Street, Marshfield, WI 54449**

**Manufacture of Welded Stainless Steel Pipe, Fittings,
Piping Systems and Custom Fabricated Assemblies**

**Piping Products Division
125 Beaver Trail, Glasgow, KY 42141
185 Industrial Drive, Glasgow, KY 42141**

Manufacture of Welded Stainless Steel Pipe

**Fabrication Division
2910 Apache Drive, Plover, WI 54467
Manufacture of Welded Stainless Steel
Custom Fabricated Assemblies**

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0A1017.95R2**

**Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program**



HSB's Accreditation No: MSCB-187

Certificate Number: Q 22
Page 2 of 2