



**REGISTRATION OF A PRESSURE FITTING DESIGN**

March 25, 2025

TSSA  
345 Carlingview Dr.  
Toronto, ON  
Canada  
M9W 6N9

**Attention: Cecylia Garbacz**

**File Number: 102368**

**Re: Manufacturer: Tri-Canada Industries Ltd**

**Item: Hose Assemblies**

**Catalog or Drawing: Per Scope of Registration (6 January 2024)**

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

**0D9034.53**

**Expiry Date: 2034-07-24**

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,

Athan Syrgiannis, P.Eng.

Codes and Standards Compliance

**Remarks:**

Revision to existing registration. Address change only.

A valid quality control program must be maintained at the production facility for the fitting registration to remain valid until the expiry date.

# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick  
Nunavut

Nova Scotia  
Yukon

Prince Edward Island  
Northwest Territories

Newfoundland and Labrador

<b>Manufacturers Name:</b> Tri-Canada Industries Ltd	
<b>Manufacturers Address:</b> 1000 EDGELEY BLVD #2, VAUGHAN, ON, L4K 4V4	
<b>Plant Locations:</b>	
<b>Category of Fittings to be registered. Circle one Category only</b> <b>A</b> Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers <b>B</b> Flanges: all flanges <b>C</b> Valves: all line valves <b>D</b> Expansion joints, flexible connections, and hose assemblies: all types <b>E</b> Strainers, filters, separators, and steam traps <b>F</b> Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters <b>G</b> Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs <b>H</b> Pressure retaining components that do not fall into one of the above categories  <b>N</b> Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> , (Meeting CNSC or ASME requirements)	<b>Title of the Standard of Construction</b>  CATEGORY D - SANITARY HOSES CSA B51 RUBBER MANUFACTURERS ASSOCIATION HANDBOOK
<b>Show Manufacturers Name, Trademark, or Logo as it will appear on the product</b> Tri-Canada	<b>Type of Construction</b> Forged <input type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/> Cast <input type="checkbox"/> Other <input checked="" type="checkbox"/> Describe other: FLEXIBLE CRIMPED HOSE ASSEMBLIES (D)
<b>List of supporting documentation and identification of the actual items to be registered:</b>  AS PER ATTACHED SCOPE OF REGISTRATION UPDATED CRN OD9034.5R4	

## Declaration:

I, Sue Abaza (see note 3) employed by Tri-Canada Industries Ltd and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by Sue Abaza Tri-Canada TSSA as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: S. Abaza  
 Declared before me at the city of Vaughan  
 This 8<sup>th</sup> day of January AD 2025  
 Commissioner of Oaths [Signature]  
 Or Notary Public: (sign) [Signature]

(Affix Official seal to the right)

Use this space for the



This space for Regulatory Authority use.  
 This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: \_\_\_\_\_

FID#: \_\_\_\_\_

### Notes:

1. All Fittings shall be registered in the name of the Manufacturer.
2. Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.
4. Quality Control programs shall be resubmitted for validation.

11/2016

<b>Technical Safety Authority of Saskatchewan</b>	
Registration No. _____	OD9034.53
File No. _____	102368
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Registered</div>	
Date: _____	March 25, 2025
Expiry Date: _____	July 24, 2034
Codes & Standards Compliance Office	



**Tri-Canada Industries Ltd**  
**1000 Edgeley Blvd #2**  
**Vaughan, Ontario, L4K 4V4**


Registration No.	0D9034.53
File No.	102368
<div>Registered</div>	
Date:	March 25, 2025
Expiry Date:	July 24, 2034
Codes & Standards Compliance Office	

**6 January 2024**

**Scope of Registration Tri-Canada CRN OD9034.5R4**

Description	Sizes	End Connections	Liquid, Air & Gas Service MAWP at RT	Max Temp
Pharmaline-N	1/2", 5/8", 3/4", 1", 1-1/4", 1-1/2", 2"	Tri-Clamp, Male NPT, Female JIC	230 psig	150 °C
WCS	3/8", 1/2", 5/8", 3/4", 1", 1-1/4", 1-1/2", 2"	Tri-Clamp, Male NPT, Female JIC	250 psig	230 °C
FGR	1/2", 3/4", 1", 1-1/2", 2"	Tri-Clamp, Male NPT	250 psig	121 °C
FGR	2-1/2", 3"	Tri-Clamp, Male NPT	150 psig	121 °C
TS	3/8"	Compression, Male NPT	250 psig	260 °C
Gates Stallion	2"	Tri-Clamp, Female JP/Nut	190 psig	149 °C
TLCT	1/2", 3/4", 1", 1-1/4", 1-1/2"	Tri-Clamp, Male NPT	250 psig	177 °C
TLCT	2", 2-1/2"	Tri-Clamp	200 psig	177 °C
Pure-Fit SBP	1/2"	Tri-Clamp, Male NPT	95 psig	260 °C
Pure-Fit SBP	3/4"	Tri-Clamp	75 psig	260 °C

Description	Sizes	End Connections	Liquid, Air & Gas Service MAWP at RT	Max Temp
Pure-Fit SBP	1"	Tri-Clamp, Male NPT	55 psig	260 °C
RubberFab RFRT	1/2", 3/4", 1", 1-1/2", 2"	Tri-Clamp, Male NPT	250 psig	149 °C
RubberFab RFRT	3"	Tri-Clamp	200 psig	149 °C
RubberFab RFSB	1/2"	Tri-Clamp	105 psig	195 °C
RubberFab RFSB	3/4"	Tri-Clamp, Male NPT	90 psig	195 °C
RubberFab RFSB	1"	Tri-Clamp, Male NPT	60 psig	195 °C
RubberFab RFCTLP	1/2", 3/4", 1", 1-1/2", 2"	Tri-Clamp, Male NPT	250 psig	177 °C

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<small>Codes &amp; Standards Compliance Office</small>	



**Tri-Canada Industries Ltd**  
**1000 Edgeley Blvd #2**  
**Vaughan, ON, L4K 4V4**



## Updated Hose Component Part Numbers for Proof Tests CRN OD9034.5R4

Hose	Size	Hose Part #	Crimp Ferrule #	Connection Part #	X	Connection Part #
Pharmaline	1/2"	08-PHAN-GP	PL-08-01-DC	Fem JIC # AF-08-0-DC	X	Triclamp # AF-08-11-DC-SF4, TC5050
	1"	16-PHAN-GP	PL-16-01-DC	Male NPT # AF-6-03-DC	X	Triclamp # AF-16-10/S-DC-SF4, TC1010
	2"	32-PHAN-GP	PL-32-01-DC	Triclamp # AF-32-10-DC-SF4, A-TC32	X	Triclamp # AF-32-10-DC-SF4, A-TC32
WCS	3/8"	2706WCS00	270600SKL	Male NPT # 160603SK0	X	Female JIC # 160602SKN
	2"	2732WCS00	273200SKL	Triclamp # A-TC32	X	Male NPT # 383203SK0
FGR	1/2"	HOSFGR-08	990800SK0	Triclamp # TC5050	X	Male NPT # 160803SK0
	3"	HOSFGR-48	994800SK0	Triclamp # A-TC48	X	Triclamp # A-TC48
TS	3/8"	1606TS400	160600SK0	Compression Tube Adapter w/ Nut and ferrules # 160632FNS	X	Male NPT # 160603SK0
Gates Stallion	2"	4698-0014	993200FGR	Triclamp A-TC32	X	Female JP/Nut # A-JPN32
TLCT	1/2"	3808TLCT0	380800SK0	Triclamp # 160811SK0, TC5050	X	Male NPT # 160803SK0
	2.5"	3840TLCT-2.5	384000SK0	Triclamp # 384010SKE	X	Triclamp # 384010SKE
Pure-Fit SBP	1/2"	HOSSBP-08	880800SK0	Triclamp # 160811SK0	X	Male NPT # 160603SK0
	3/4"	HOSSBP-12	881200SK0	Triclamp # TC7575	X	Male NPT # 381203SK0
	1"	HOSSBP-16	881600SK0	Triclamp # 381610SK0	X	Male NPT # 381603SK0

Hose	Size	Hose Part #	Crimp Ferrule #	Connection Part #	X	Connection Part #
Rubberfab	1/2"	08RFT	08CL-FDAE	Triclamp # 08HB-08TC-SS	X	Male NPT # 08HB-08MPT-SS
RFRT	2"	32RFT	32CL-RT-SS	Triclamp # 32HBL-32TC-SS	X	Male NPT # 32HBL-32MPT-SS
	3"	48RFT	48CL-RT-SS	Triclamp # 48HBL-32TC-SS	X	Triclamp # 48HBL-32TC-SS
Rubberfab	1/2"	08RFSB	08CL-SB-SS	Triclamp # 08HB-08TC-SS	X	Male NPT # 08HB-08MPT-SS
RFSB	3/4"	12RFSB	12CL-SB-SS	Triclamp # 12HB-12TC-SS	X	Male NPT # 12HB-12MPT-SS
	1"	16RFSB	16CL-SB-SS	Triclamp # 16HB-16TC-SS	X	Male NPT # 16HB-16MPT-SS
Rubberfab	1/2"	08RFCTL	08CL-CLTP-SS	Triclamp # 08HB-08TC-SS	X	Male NPT # 08HB-08MPT-SS
RFCTL	2"	32RFCTL	32CL-CLTP-SS	Triclamp # 32HBL-32TC-SS	X	Male NPT # 32HBL-32MPT-SS


**Technical  
Safety Authority**  
of Saskatchewan

Registration No. 0D9034.53

File No. 102368

Date: March 25, 2025

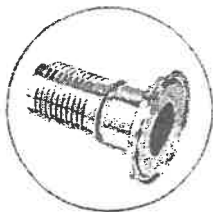
Expiry Date: July 24, 2034

Codes & Standards Compliance Office

# Versilon™ Fitting End Connections

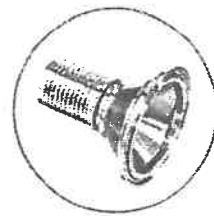
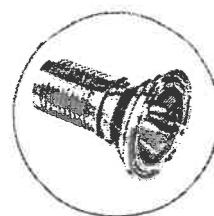
## Sanitary

Sanitary clamp  
style, 316L  
stainless steel  
**Style 10**



Sanitary "jump" styles clamp style,  
316L stainless  
steel

**Style 10U** - 1 step up  
**Style 10UU** - 2 steps up



Sanitary clamp  
style 90° elbow,  
316L stainless  
steel

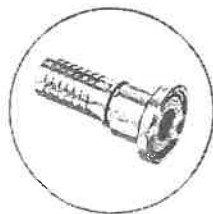
**Style 10L**

Sanitary & hose  
barb same size



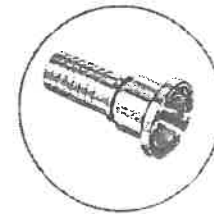
Sanitary "mini",  
316L stainless  
steel

**Style 11**



Sanitary "mini"  
jump size,  
316L stainless  
steel

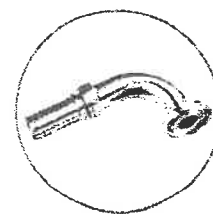
**Style 11U**



Sanitary 90° elbow "mini", 316L stainless steel

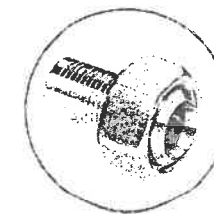
**Style 11L**

Mini sanitary & hose barb same size



Bevel seat/nut,  
316L stainless  
steel insert 304  
stainless steel  
nut

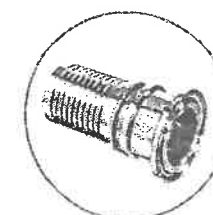
**Style 20**



Note: 45° elbows also available full size (style 10L45) & "mini" size (style 11L45)

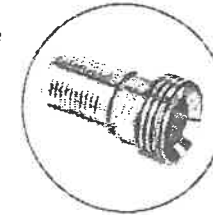
Sanitary "maxi"  
size for Sani-  
Tech® Rigid  
connections,  
316L stainless  
steel

**Style 25**



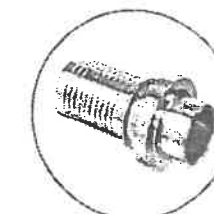
Bevel seat, male  
threads, 316L  
stainless steel

**Style 40**



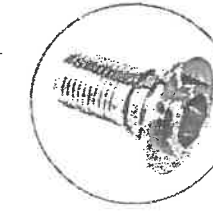
ButtWeid,  
sanitary tube  
size 316L  
stainless steel

**Style 41**



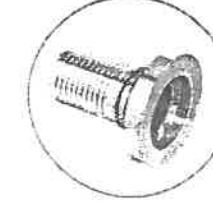
Male I-line, 316L  
stainless steel

**Style 50**



Female I-line,  
316L stainless  
steel

**Style 51**



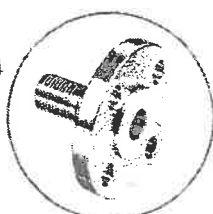
**Fittings made from other materials such as high nickel alloys and PVDF are available. Contact us for more information.**

## Flanged Connections Class 150 Lap Joint Flanges Shown • Class 300 Lap Joint Flanges Available

316L Flange  
retainer with: 304  
or 316L lap joint  
flanges

**Style 12S6** - 316L  
flange

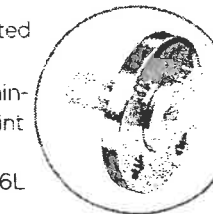
**Style 12S4** - 304  
flange



PFA Encapsulated  
flange retainer:  
304 or 316L stain-  
less steel lap joint  
flange

**Style 12T6** - 316L  
flange

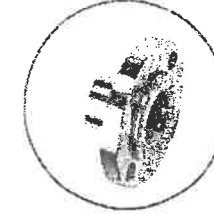
**Style 12T4** - 304 flange



"Flare-Thru"  
flange retainer;  
fluoropolymer  
lined

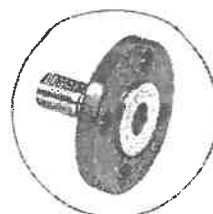
**Style 12FTC** -  
epoxy coated  
carbon steel

**Style 12FT6** - 316L flange  
**Style 12FT4** - 304 flange

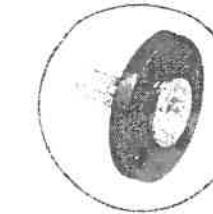


Epoxy coated  
carbon steel  
lap joint flange

**Style 12C** -  
epoxy carbon  
steel flange



PFA  
encapsulated  
flange  
retainer:  
**Style 12TC** -  
epoxy coated  
carbon steel



C/F for hose type with Flare-Thru  
flange option.

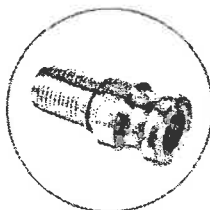
Note: Class 300# flanged assemblies  
must be cross checked for  
hose/fitting pressure rating.

## Male Cam & Groove

316L stainless steel male cam & groove

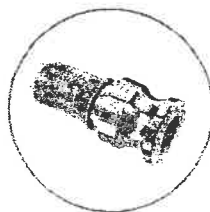
**Style 17** - Male & hose barb same size

**Style 17U** - Male is one size larger than Hose Barb



PFA Encapsulated male cam & groove

**Style 17T** - male & hose barb same size



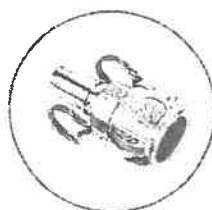
Fluoropolymer encapsulated male cam & groove fittings available on selected hose styles & sizes. C/F for availability

## Female Cam-Lock (Cam & Groove)

Female cam-lock, swivel style non-locking arms

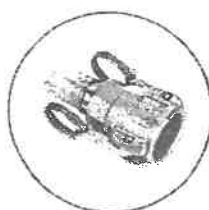
316L insert 316 stainless steel body

**Style 16**



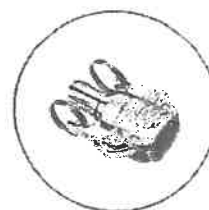
Female cam-lock, swivel style non-locking arms PFA encapsulated insert with 316 stainless steel body

**Style 16T**



Female cam-lock swivel style locking arms 316L insert 316 stainless steel body

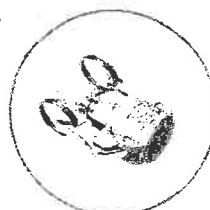
**Style 16LK**



Female cam-lock, swivel style locking arms

PFA encapsulated insert 316 stainless steel body

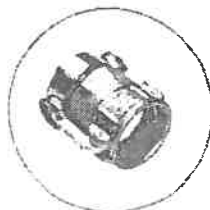
**Style 16TLK**



Female cam-lock, swivel style locking and nonlocking arms "Flare-Thru" option

**Style 16FTLK** - locking arms

**Style 16FTS6** - non-locking arms



Fluoropolymer Flare-Thru female cam & groove fittings available on selected hose styles & sizes. C/F for availability

## Compression, O-Ring and Vacuum

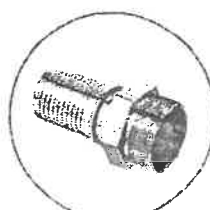
Compression connector 316L stainless steel

**Style 31**

1/4" to 1" sizes

hose barb & connector same size

Step-up & step-down sizes available: C/F

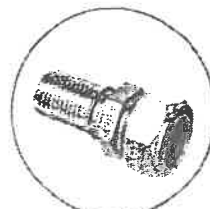


Compression connector w/nut & ferrules 316L stainless steel 1/4" to 1" sizes

**Style 31FN**

Hose barb & connector same size

Step-up & step-down sizes available: C/F

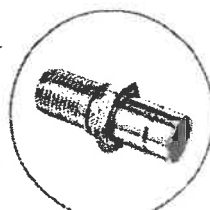


Compression tube adapter 316L stainless steel 1/4" to 1" sizes

**Style 32**

Hose barb & tube same size

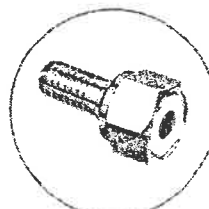
Step-up & step-down sizes available: C/F



O-ring style 316L stainless steel

1/4"-1/2" sizes

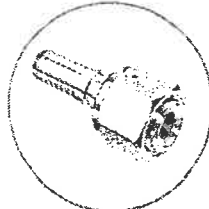
**Style 33**



Vacuum fitting, female 316L stainless steel

1/4" & 1/2" sizes

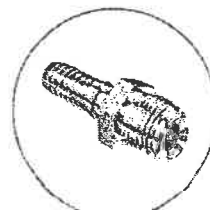
**Style 34**



Vacuum fitting, male 316L stainless steel

1/4" & 1/2" sizes

**Style 35**

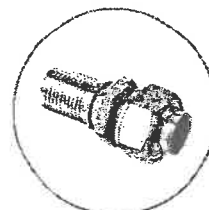


Compression tube adapter w/nut & ferrule 316L stainless steel

1/4" - 1" sizes

Available preswaged from factory

**Style 32FN**

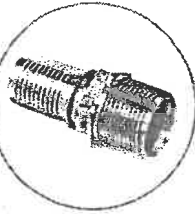




## NPT

Male NPT; 316 L stainless steel hex style

**Style 03** - MNPT & hose barb same size

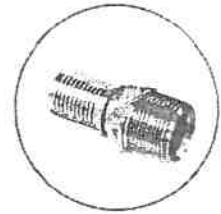
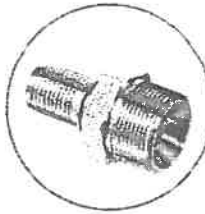


Male NPT jump sizes hex style; 316L stainless steel

**Style 03U** - step-up

**Style 03D** - step-down 2-1/2" & larger fittings have "wrench flats"

**Style 04** - male NPT, plain

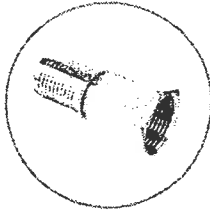


Female NPT

**Style 06** - Hex style; 316L stainless steel

Hose barb & female NPT same size

**Style 05** - female NPT, plain



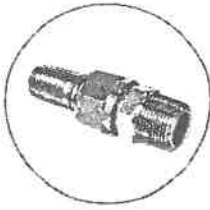
## Unions/Female JIC

Male union, 316L stainless steel JIC x male NPT pipe adapter

**Style 08** - hose and MNPT barb same size

**Style 08U** - step-up

**Style 08D** - step-down



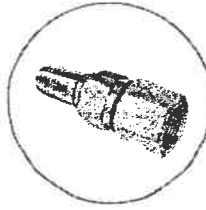
Female union 316L stainless steel

JIC x female pipe adapter

**Style 07** - same size FNPT pipe x hose barb

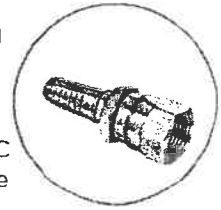
**Style 07U** - step-up

**Style 07D** - step-down



Female JIC swivel anti-torque style 316L stainless steel

**Style 02HSN** - JIC & hose barb same size

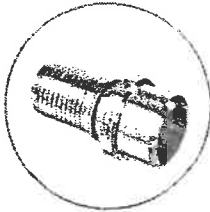


ButtWeld, 316L stainless steel "pipe size"

**Style 01**

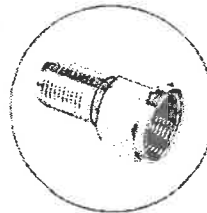
Pipe size & hose barb same size. Length & pipe

schedule can be custom manufactured. C/F



Female JIC swivel 316L stainless steel insert, 304 stainless steel swivel nut

**Style 02** - JIC & hose barb same size



## Versilon™ Adapters

PFA encapsulated 316 male cam & groove x 150# Lap joint (swivel) flange adapter

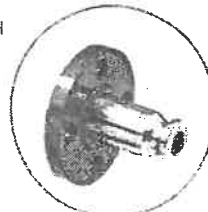
**Style 18T6** - 316L stainless steel flange

**Style 18T4** - 304 stainless steel flange



PFA encapsulated 316 male cam & groove x 150# lap joint (swivel) flange adapter

**Style 18TC** - epoxy coated carbon steel flange C/F for 300# flange



PFA encapsulated 316 stainless steel "spool" adapter for connecting two fluoropolymer-lined female cam & groove fittings

**Style 19T**

