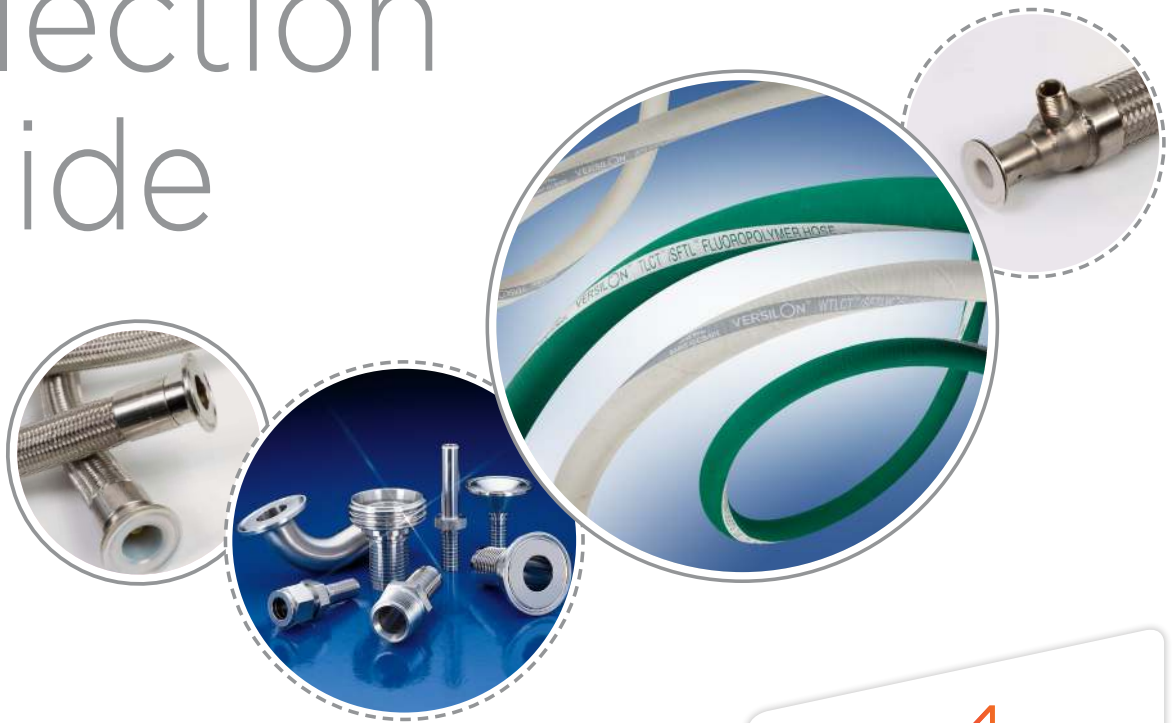


# Versilon™ Fluoropolymer Hose and Fitting Selection Guide



# Saint-Gobain Versilon™ Fluoropolymer Hose and Fittings

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## Versilon™ Fluoropolymer Hose Styles

### Rubber Covered Smooth ID Transfer Hose

#### TLCT

Smooth I.D. FEP fluoropolymer lined EPDM rubber hose (green)

**Size range** : 1/2" to 4" I.D.  
**Temperature rated** : -40°F to +350°F

**End connections** : Permanent crimp style; Flare-Thru C/F for available sizes/styles



#### WTLCT

Smooth I.D. FEP fluoropolymer lined EPDM rubber hose (white)

**Size range** : 1/2" to 4" I.D.  
**Temperature rated** : -40°F to +350°F

**End connections** : Permanent crimp style; Flare-Thru C/F for available sizes styles



#### WSIB

Smooth Inner Bore - sanitary tubing sized smooth FEP fluoropolymer lined EPDM rubber hose (white)

**Size range** : 1" to 3" I.D.  
**Temperature rated** : -40°F to +350°F

**End connections** : Flare-Thru sanitary fittings only C/F for available sizes/styles



#### WTLCTPFA

Smooth ID, ultra pure unpigmented PFA lined white EPDM rubber covered transfer hose

**Size range** : 3/4" to 2" I.D.  
**Temperature rated** : -40°F to +350°F

**End connections** : Permanent crimp style; Flare-Thru C/F for available sizes/styles



#### TLCTCO

Smooth I.D. FEP lined EPDM rubber hose with "Convolute Outer" for improved flexibility.

**Size range** : 3/4" to 2" I.D.  
**Temperature rated** : -40°F to +350°F  
**End connections** : Permanent crimp style; Flare-Thru C/F for available sizes/styles



## Stainless Steel Smooth ID Braided Hose

### TS

True bore smooth I.D.  
PTFE tube, 304 stainless steel braid reinforced hose.

**Size range** : 1/8" to 1" I.D.

**Temperature rated** : -100°F to +450°F continuous;  
+500°F intermittent

**End connections** : Permanent crimp style



### TD

1-1/2" version of TS with two 304 stainless steel reinforcing braids

**Temperature rated** : -100°F to +450°F continuous;  
+500°F intermittent

**End connections** : Permanent crimp style

### TSS

Platinum cured, extruded silicone covered 304 stainless steel reinforced PTFE smooth tube hose.

**Size range** : 1/4" to 1" I.D.

**Temperature rated** : -100°F to +450°F continuous;  
+500°F intermittent

**End connections** : Permanent crimp style



## Stainless Steel Smooth ID Braided Hose with Flare-Thru Fittings

### MTL

Smooth I.D. FEP fluoropolymer lined 304 stainless steel metal hose.

**Size range** : 1" to 8"

**Temperature rated** : -65°F to +350°F

**End connections** : Flare-Thru fittings only; flanged, female cam-lock and sanitary. C/F for available fittings by hose I.D.



## Convuluted ID Transfer Hoses - Open Pitch

### TWOB

Open pitch (white) PTFE helical convoluted I.D. hose; 316 stainless steel braid reinforcement.

**Size range** : 1/2" to 4" I.D.

**Temperature rated** : -100°F to +450°F

**End connections** : Flare-Thru; flanged, female cam-lock and sanitary; Permanent crimp style



### TBOB

Anti-static (black) version of open pitch PTFE helical convoluted I.D. hose. Shares sizes, temperature rating and end connections of TWOB.



### TB

Anti-static (black) true bore smooth I.D. PTFE tube. 304 stainless steel braid reinforced hose.

**Size range** : 1/4" to 1" I.D.

**Temperature rated** : 100°F to +450°F continuous; +500°F intermittent

**End connections** : Permanent crimp style



### TDB

1/2" version of TB; two 304 stainless steel reinforcing braids.

**Temperature rated** : -100°F to +450°F continuous;  
+500°F intermittent

**End connections** : Permanent crimp style

### TH

Anti-static (black) PTFE tube, 304 high density stainless steel braid reinforcement. Pressure rated for 5000 psi all sizes.

**Size range** : 1/4" to 1" I.D.

**Temperature rated** : -65°F to +400°F continuous;

**End connections** : Permanent crimp style



### MTLSJ

Smooth I.D. FEP fluoropolymer lined 304 stainless steel jacketed hose within a hose.

**Size range** : 1" to 3" I.D.

**Temperature rated** : -65°F to +350°F

**End connections** : Flare-Thru fittings only; flanged, female cam-lock and sanitary. C/F for available fittings by hose I.D.



### TWOBHV

Vacuum rated 316 stainless steel braid reinforced version of TWOB. Includes optional stainless steel support wire for improved vacuum and kink resistance.

**Size range** : 2" to 4" I.D.

**Temperature rated** : -100°F to +450°F

**End connections** : Flare-Thru; flanged, female cam-lock and sanitary; crimp style



### TBOBHV

Anti-static (black) version of TWOBHV; shares sizes, temperature rating and end connections. (Not Shown)

### TBOY

Anti-static (black) version of TWOY.

**Size range** : 1/2" to 4" I.D.

**Temperature rated** : -40°F to +250°F

**End connections** : Flare-Thru; flanged, female cam-lock and sanitary; Permanent crimp style



### TWOY

Open pitch (white) PTFE helical convoluted I.D. hose; U.V. stabilized large diameter (denier) polypropylene braid reinforcement.

**Size range** : 1/2" to 4" I.D.

**Temperature rated** : -40°F to +250°F

**End connections** : Flare-Thru; flanged, female cam-lock and sanitary; Permanent crimp style



### TBOK

Anti-static (black) open pitch PTFE helical convoluted I.D. hose.

**Size range** : 3/4" to 3" I.D.

**Temperature rated** : -40°F to +275°F

**End connections** : Flare-Thru; flanged, female cam-lock and sanitary; Permanent crimp style



### TWOK

Open pitch PTFE helical convoluted I.D. hose; PVDF (Kynar) braid reinforcement.

**Size range** : 3/4" to 3" I.D.

**Temperature rated** : -40°F to +275°F

**End connections** : Flare-Thru; flanged, female cam-lock and sanitary; Permanent crimp style



### TWOP/TBOP

Unbraided (white, TWOP) and anti-static (black, TBOP) PTFE helical convoluted I.D. hose.

**Size range** : 1/4" to 4" I.D.

**Temperature rated** : -100°F to +450°F

**End connections** : Permanent crimp style; Flare-Thru; flanged, female cam-lock and sanitary. Also available with "cuffed" ends to slip over pipe or tube O.D. connections.



## Convoluted Transfer Hose - Low Profile

### WCS

White FEP fluoropolymer low profile helical convoluted I.D. hose; 304 high tensile strength stainless steel braid reinforcement.

**Size range** : 3/8" to 2" I.D.

**Temperature rated** : -65°F to +400°F

**End connections** : Permanent crimp style



### WCSS:

Platinum cured, extruded silicone covered stainless steel reinforced (white) FEP fluoropolymer low profile convoluted I.D. hose.

**Size range** : 3/8" to 2" I.D.

**Temperature rated** : -65°F to +400°F

**End connections** : Permanent crimp style



### BCS

Anti-static (black) PTFE low profile version of WCS. Shares size range and end connections.

**Size range** : 3/8" to 2" I.D.

**Temperature rated** : -65°F to +400°F

**End connections** : Permanent crimp style



### WCP

White FEP fluoropolymer low profile helical convoluted I.D. hose. U.V. stabilized polypropylene braid reinforcement.

**Size range** : 1/2" to 1" I.D.

**Temperature rated** : -40°F to +250°F

**End connections** : Permanent crimp style



### BCP:

Anti-static (black) PTFE low profile version of WCP. Shares size range and end connections

**Size range** : 1/2" to 1" I.D.

**Temperature rated** : -40°F to +250°F

**End connections** : Permanent crimp style



### Chlorine Hose

PTFE convoluted inner tube with PVDF braid manufactured in accordance with Chlorine Institute Pamphlet 6 specifications.

**Size range** : 1/2" to 1-1/2" I.D.

**Temperature rated** : -40°F to +120°F

**End connections** : Permanent crimp style (high nickel and PVDF)





# 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**



ButtWeld, 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 stainless 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: 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



Chemfluor® 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**



# Fluoropolymer Hose and Fitting Selection Guide

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Fluid Performance

Premium quality tubing, hoses and fittings fulfilling a range of demanding certification, performance and safety standards.

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