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 “Convoluted 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

**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

**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

**TDB**  
1-1/2" version of TB 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

**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

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" 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.

**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.

Convoluted ID Transfer Hose - 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.

**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; Permanent 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

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

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

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

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 ID Transfer Hose - Low Profile

WCS
White PTFE 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) PTFE 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

WCP
White PTFE 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 +122°F
End connections: Permanent crimp style (high nickel and PVDF)
Versilon™ Fitting End Connections

**Sanitary**

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

- Sanitary clamp style 90° elbow, 316L stainless steel
  - Style 10L
  - Sanitary & hose barb same size

- Sanitary 90° elbow “mini”, 316L stainless steel
  - Style 11L
  - Mini sanitary & hose barb same size

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

- Sanitary “maxi” size for Sanitech® Rigid connections, 316L stainless steel
  - Style 25

- Male I-line, 316L stainless steel
  - Style 50

- Female I-line, 316L stainless steel
  - Style 51

- Sanitary “jump” styles clamp style, 316L stainless steel
  - Style 10U - 1 step up
  - Style 10UU - 2 steps up

- Bevel seat/nut, 316L stainless steel insert 304 stainless steel nut
  - Style 20

- ButtWeld, sanitary tube size 316L stainless steel
  - Style 41

- Bevel seat/nut, 316L stainless steel insert 304 stainless steel nut
  - Style 20

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

- Epoxy coated carbon steel lap joint flange
  - Style 12C - epoxy carbon steel 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

- 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

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 316 stainless steel body
Style 16T

Female cam-lock, swivel style locking and nonlocking arms “Flare-Thru” option
Style 16FTLK
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

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

Compression tube adapter w/nut & ferrules 316L stainless steel 1/4” to 1” sizes
Style 32
Hose barb & tube same size
Step-up & step-down sizes available; C/F

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

ButtWeld, 316L stainless steel “pipe size”  
**Style 01**  
Pipe size & hose barb same size. Length & pipe schedule can be custom manufactured. C/F

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

**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

VERSILON™
Fluid Performance

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

TYGON®
Excellence By Design

Precision-designed tubing for peak performance and regulatory compliance, across a range of specialized fluid transfer applications.

TYGON®
Safe Smart Sustainable

Phthalate-free, bio-based tubing product line for the food and beverage market.

IMPORTANT: It is the user’s responsibility to ensure the suitability and safety of Saint-Gobain materials for all intended uses. Laboratory, field or clinical tests must be conducted in accordance with applicable requirements in order to determine the safety and effectiveness for use of materials in any particular application. If intended for medical use, it is the user’s responsibility to ensure that the materials to be used comply with all applicable medical regulatory requirements.

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