HEAVY DUTY APPLICATIONS
UltraFlex heavy duty hose is made with the thickest, seamless PTFE liner in the industry and offers the largest size range (1/2” - 6”) which makes it ideal for nearly all demanding high purity and chemical applications. The open pitch, spiral convolutions facilitate cleaning because they’re self-draining, and the tight bend radius of UltraFlex hose is perfect for space-constrained locations. To ensure continuous fluid contact with PTFE throughout the hose assembly, the PTFE liner can be cuffed and flared through for a continuous fluid conduit.

ULTRAFLEX ADVANTAGES
Corrosion Resistant
PTFE is fully resistant to the broadest range of industrial chemicals and has a zero corrosion rate with lower life cycle costs.

Cleanable
Non-Stick, low porosity tube is self cleaning and does not trap bacteria and can be cleaned with steam, detergents, caustics or solvents.

Sanitary
FDA- approved materials meet or exceed Pharmacopoeia Class VI and 3A standards.

Compatible
Will not contaminate or impart a taste, color, or odor to any media.

Flexible
Ultra flexible engineered design that resists cracking and stress corroding.

Durable
Engineered for extended use in hostile environments involving severe chemical, thermal, and mechanical stresses. Does not suffer from aging or embrittlement like rubber even with extreme thermal cycling.

Stainless Braid Ratings

<table>
<thead>
<tr>
<th>Pressure (psig)</th>
<th>0</th>
<th>100</th>
<th>200</th>
<th>300</th>
<th>400</th>
<th>500</th>
<th>600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature °F</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Polypropylene Braid Ratings |

<table>
<thead>
<tr>
<th>Pressure (psig)</th>
<th>0</th>
<th>100</th>
<th>200</th>
<th>300</th>
<th>400</th>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Stainless braid and bare hose temperature range: (-65°F - 54°C) to (+450°F / +232°C)
Polypropylene braid temperature range: (-30°F / -23°C) to (+250°F / +121°C)

**FLARE-THRU FITTINGS**
UltraFlex thick PTFE liner can be passed through the end fitting and flared radially outward against the sealing face to provide a continuous PTFE fluid conduit.

**OTHER Braid OPTIONS AVAILABLE**

**Sanitary**

**Cam lock**

**Flanges**

**Cuffed Ends**

**Flanged End**

ULTRAFLEX Spiral Vent Tubing

UltraFLEX heavy wall PTFE makes it ideal for vent tubing or flanged hose assemblies where line pressures are relatively low. UltraFlex Spiral Vent Tubing assemblies provide excellent flexibility, are light weight and have superior chemical resistance. Available in sizes 1/2” to 6” with cuffed, flanged or a variety of other end connections and materials.
### PureFlex Fittings

#### Threaded Fittings
- Style 03: Male Pipe (NPT)
- Style 04: Male Pipe (NPT) Hex
- Style 06: Male Pipe (NPT)
- Style 30: JIC Female Swivel
- Style 33: Male Union (NPT)
- Style 36: Female Union (NPT)
- Style 40: Sanitary (Tri-Clamp)
- Style 40U: Sanitary Flare Thru (UltraFlex hose only)
- Style 41: Sanitary Step-Up
- Style 42: Sanitary Mini
- Style 44: Sanitary X Male Cam
- Style 45: Bevel Seat Female
- Style 46: Bevel Seat Male
- Style 48: I-Line Male
- Style 50: Cam Lock Female Pipe
- Style 60: Cam Lock Female Flange
- Style 62: Cam Lock Male Pipe
- Style 66: Cam Lock Male Flange
- Style 70: Cam Lock Female
- Style 72: Cam Lock Male
- Style 75: Flange Retainer
- Style 81: Flange Retainer

#### Sanitary Fittings
- Style 31: O-Ring Female Swivel ‘D’
- Style 38: Compression Adapter
- Style 49: I-Line Female
- Style 51: Female Flange Adapter (PTFE Encapsulated)
- Style 52: Female Flange Adapter
- Style 58: Male Flange Adapter (PFA Encapsulated)
- Style 59: Male Flange Adapter
- Style 61: Male Flange Adapter
- Style 63: Male Flange Adapter

#### Compression, Splice, Buttweld Fittings
- Style 18: Tube Buttweld
- Style 19: Pipe Buttweld

#### Compression, Splice, Buttweld Flanges
- Style 20: Male Flange Adapter (PFA Encapsulated)
- Style 21: Female Flange Adapter (PTFE Encapsulated)
- Style 22: CAM Spool Adapter (PFA Encapsulated)
- Style 23: CAM Spool Adapter
- Style 24: CAM Spool Adapter with FTFE Seal
- Style 27: Female CAM Lock ‘D’ (PTFE Encapsulated)
- Style 28: Male CAM Lock ‘E’ (PFA Encapsulated)
- Style 29: Flare Thru Flange (UltraFlex hose only)
- Style 39: Compression Connector with Nut and Ferrule

#### CNC Machining

PureFlex has (24) CNC machining centers and manufactures the most diverse fitting and collar selection in the industry. Because of its machining expertise, PureFlex can also offer a wide range of materials including: Stainless steel, carbon steel, Monel, Hastelloy, titanium, solid PVDF, solid Polypropylene and any other plastic or alloy requested.

### Options

**Hose Cover Options**

1. **SCUFF SLEEVE**
   - Protects hose exterior from damage when dragged over rough surfaces.

2. **FIRE SLEEVE**
   - Protects hose from extreme exterior temperatures. Can be used as insulation and protects personnel from extreme interior temperatures.

3. **POLYOLEFIN**
   - Provides a smooth, cleanable covering over braided hose.
   - Many colors available.

4. **ARMOR GUARD**
   - Protects hose from kinking by not allowing it to exceed its bend radius.

5. **SPRING GUARD**
   - Provides kink resistance and protects hose from damage when dragged over rough surfaces.

6. **HDPE ARMOR**
   - Provides kink and wear protection during rough handling.
   - Allows for color coding and is the only protective layer that can be installed on an existing assembly.

**Durcor-62™ Composite Flanges**

- **Strong As Steel**
- **1/4 The Weight Of Stainless**
- **Class 150 Rated**
- **ANSI B16.5**
- **(-)60°F to (+)300°F**
- **Lower Cost Then 316s.s.**
- **Lower Transportation Cost**
- **Lower Installed Cost**
- **Lower Life Cycle Cost**
- **Zero Corrosion Rate**
- **5 Year Warranty**

Electically Heated Hoses & Controls

Consult Factory for more information

**Custom Fabricated Assemblies**

Multiflex hose with integral FEP sight gauge shown.

PureFlex acid etches a unique serial number on every assembly 3/4” and larger. Other special tagging available.
# HOW TO ORDER

## ULTRAFLEX HOSE ASSEMBLY NUMBERING SYSTEM

Steps to order a 1" UltraFlex assembly with a length of 12", 316SS male NPT one end, 316SS JIC other end. No options.

Sample part number: 016J036306001200

### Sample Assembly Length:

- **Assembly End to End Length:** 120"
- **Type of hose:** UltraFlex
- **Type of fitting:** Male NPT
- **Material:** 316SS
- **Flange options:** None

## HOW TO ORDER

### Step A1

**Hose Series**

- **U** = UltraFlex
- **M** = MultiFlex
- **P** = ProFlex

### Step 1

**Determine I.D. of UltraFlex tube:**

- 16 = 1"
- 08 = 1/2" (0.5"")
- 12 = 3/4" (0.75"")
- 18 = 1" (1"")
- 24 = 1-1/2" (1.5"")
- 32 = 2"
- 48 = 3"
- 64 = 4"

### Step 2

**Determine hose product code:**

- **U** = Bare
- **J** = SS Braid
- **P** = PP Braid
- **S** = Special

### Step 3

**Determine style of 1st end:**

- **03 = Male NPT**
- **04 = Male pipe NPT**
- **06 = Female pipe NPT**
- **30 = JIC female swivel**
- **33 = Male union (NPT)**
- **36 = Female union (NPT)**
- **37 = Female swivel NPSH**
- **05 = Flange retainer**
- **15 = Flange retainer Pseries**
- **25 = Enc. flange retainer**
- **29 = Flare thru flange**
- **Camlock**
  - 07 = Female cam lock "D"
  - 27 = Enc. female cam lock "D"
  - 08 = Male cam lock "E"
  - 28 = Enc. male cam lock "E"
- **Compression**
  - 31 = Drilling female swivel "D"
  - 38 = Compression adapter
  - 39 = Compression connector w/nut & ferrule
- **Buttweld**
  - 18 = Tube buttweld
  - 19 = Pipe buttweld
- **Sanitary**
  - 40 = Sanitary tri-clamp
  - 40U = Sanitary flare thru
  - 41 = Sanitary step-up
  - 42 = Sanitary mini
  - 48 = Hine male
  - 49 = Hine female
  - 45 = Bevel seat female
  - 46 = Bevel seat male

### Step 4

**Determine fitting material:**

- 6 = 316SS

### Step 5

**Determine style of 2nd end:**

- **30 = JIC**
- **03 = Male pipe hex NPT**
- **04 = Male pipe NPT**
- **06 = Female pipe NPT**
- **30 = JIC female swivel**
- **33 = Male union (NPT)**
- **36 = Female union (NPT)**
- **37 = Female swivel NPSH**
- **05 = Flange retainer**
- **15 = Flange retainer Pseries**
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  - 48 = Hine male
  - 49 = Hine female
  - 45 = Bevel seat female
  - 46 = Bevel seat male

### Step 6

**Determine fitting material:**

- 6 = 316SS
- 4 = 304SS
- 0 = None

### Step 7

**Determine flange material:**

- **0 = None**

- **D** = Ductile iron
- **C** = Carbon steel
- **4 = 304SS**
- **6 = 316SS**
- **K** = Kynar
- **P** = Polypropylene

### Step 8

**Determine overall length of UltraFlex hose in inches:**

- 0120 = 120"

- Last digit in 1/8th increments.

### Step 9

**Determine options:**

- **0 = None**

- **D** = None
- **B** = Conductive hose liner
- **Z** = 300# Flg
- **L** = Locking female cam
- **S** = Spring guard
- **A** = Armor guard
- **F** = Firesleeve
- **P** = Polyolefin cover
- **T** = TFE shrink cover
- **H** = Hypalon cover
- **N** = Nylon scuff guard
- **D** = HDPE Armor

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