

THE SEVERE SERVICE STANDARD



316 Stainless Steel Braid Pure PTFE



316 Stainless Steel Braid Static - Dissipating PTFE



Polypropylene Braid Pure PTFE



Polypropylene Braid Static - Dissipating PTFE

OTHER BRAID OPTIONS AVAILABLE



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.

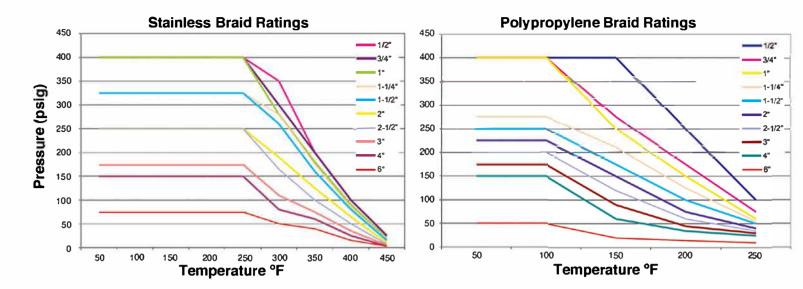
Flexible

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 and bare hose temperature range: (-)65°F (-54°C) to (+)450°F (+232°C) Polypropylene braid temperature range: (-)20°F (-29°C) to (+)250°F (+121°C)

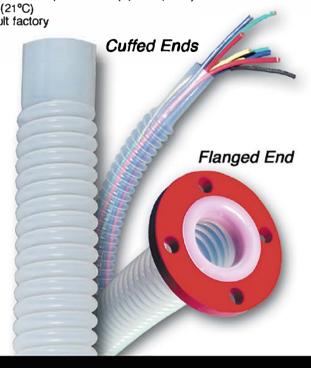
I.D Nominal (inch)	OPERATING PRESSURE (psi)			Minimum	Vacuum	Weight
	S.S. Braid	Polypro Braid	Bare Hose	Bend Radius (inch)	Rating (in-Hg)	Per Foot (lbs.)
1/2"	400	400	40	1.75	29.9	0.20
3/4"	400	400	30	2.25	29.9	0.35
1"	400	400	30	2.50	29.9	0.50
1-1/4"	325	275	20	3.00	29.9	0.70
1-1/2"	325	250	20	3.25	29.9	0.80
2"	250	225	15	5.25	29.9	0.95
2-1/2"	250	200	15	8.50	29.9	1.50
**3"	175	175	15	9.50	24.0	1.79
4"	150	150	15	11.95	20.0	2.25
6"	75	50	5	15.50	15.0	3.50

Operating pressure ratings are one-fourth the minimum burst pressure at (+)70°F (21°C) Pressure and vacuum ratings are based at (+)70°F (21°C)

** 3" is available for full vacuum applications - consult factory

ULTRAFLEX Tuble

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.



Ph.616.554-1100 www.pureflex.com Fax 616.554-3633 Ph.616.554-1100 www.pureflex.com Fax 616.554-3633

MultiFlex™ combines excellent flexibility with a high

convolutions facilitate cleaning because they're

self-draining. MultiFlex is perfect for demanding

high purity and chemical applications. Available in

pressure rating. The seamless open pitch, spiral PTFE

"PTFE" Hose

Higher Pressure Applications

"PFA" Hose **Super Long Lengths**

ProFlex™ PFA offers super long lengths, excellent chemical resistance and flexibility. PFA has the same chemical and temperature resistance as PTFE and much better flex life than FEP. ProFlex PFA open pitch spiral convolutions aid in draining, flushing and cleaning of the hose. ProFlex industrial grade PFA was designed for customer applications that don't require or need Pharmaceutical grade hose. For Pharmacopoeia class VI or semi-conductor applications please request ProFlex "HP".



316 Stainless Steel Braid Pure PTFE



Polypropylene Braid Static - Dissipating PTFE



Polypropylene Braid Pure PTFE



316 Stainless Steel Braid Static - Dissipating PTFE

MULTIFLEX™ ADVANTAGES

sizes 1/2" to 3"

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.

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.

MultiFlex™ & ProFlex™ MultiFlex™ & ProFlex™ **Stainless Braid Ratings Polypropylene Braid Ratings** 1600 700 1/2" 1400 5/8" 600 3/4" 5/8" Pressure (psig) **1-1/4**" 500 1-1/2" 1000 2" 400 800 300 600 200 400 100 200 200 250 300 200 Temperature °F Temperature °F

PROFLEX™ ADVANTAGES

Corrosion Resistant

PFA is fully resistant to the broadest range of industrial chemicals and has a zero corrosion rate with lower life cycle costs.

Long Continuous Lengths

Up to 1,000 feet long (size dependant) excellent for slip lining failed piping systems.

Ease of Fabrication

Fittings do not need PTFE tape wrap on fitting barb and insert does not require any tooling to be installed. Cut & crimp - reduced fabrication 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.

Flexible

Lower forces needed to bend or flex, aids in installation and operation.

316 Stainless Steel Braid **PFA**



Polypropylene Braid

Note: ProFlex is not available with Static - Dissipating PFA

MultiFlex™ & ProFlex™ Specification Data

Stainless braid and bare hose temperature range: (-)65°F (-54°C) to (+)450°F (+232°C) Polypropylene braid temperature range: (-)20°F (-29°C) to (+)250°F (+121°C)

I.D	OPERATING PRESSURE (psi)		Minimum	Vacuum	Weight
Nominal (inch)	S.S. Braid	Polypro Braid	Bend Radius (inch)	Rating (in-Hg)	Per Foot (Ibs.)
1/2"	1500	575	1.50	29.9	0.20
** 5/8"	1200	550	1.50	29.9	0.24
3/4"	1100	500	2.00	29.9	0.28
1"	1000	400	2.50	29.9	0.35
1-1/4"	875	350	3.13	29.9	0.48
1-1/2"	750	300	3.75	29.9	0.60
2"	625	250	6.50	24.0	0.85
3"	150	150	9.50	20.0	1.79

Operating pressure ratings are one-fourth the minimum burst pressure at (+)70°F (21°C) Pressure and vacuum ratings are based at (+)70°F (21°C)

www.pureflex.com Fax 616.554-3633 Ph.616.554-1100 www.pureflex.com Fax 616.554-3633 Ph.616.554-1100

^{** 5/8&}quot; size is only available in ProFlex series hose

PUREFLEX FITTINGS

CAM LOCK

THREADED FITTINGS STYLE 36 Female Union





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.

CNC Machining





CAM Lock 'D'

STYLE 27 Female CAM STYLE 08 Male



CAM Lock 'D'

CAM Lock 'E'



STYLE 31 O-Ring Female STYLE 40 Sanitary





FLANGES



STYLE 25 Flange Retaine



STYLE 41 Sanitary



STYLE 29 Flare Thru Flange (UltraFlex



STYLE 21 Female Flange Adapter (PTFE



STYLE 20 Male Flange Adapter (PFA





STYLE 39 Compression









STYLE 28 Male CAM











OPTIONS

Hose Cover Options

SCUFF SLEEVE

Protects hose exterior from damage when dragged over rough surfaces

FIRE SLEEVE

Protects hose from extreme exterior temperatures. Can be used as insulation and protects personnel from extreme interior temperatures

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

6 SPRING GUARD

Provides kink resistance and protects hose from damage when dragged over rough surfaces

6 HDPE ARMOR

Provides kink and wear provides kink and wear protection during rough handling. Available in (8) colors for color coding and is the only protective cover that can be installed on an existing assembly. existing assembly.





Custom Fabricated Assemblies

MultiFlex hose with integral FEP sight gauge shown





Durcor-62™ Composite Flanges WARRANTY

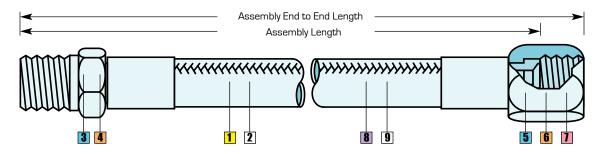


- Strong As Steel
- 1/4 The Weight Of Stainless
- Class 150 Rated
- ANSI B16.5
- (-)60°F to (+)300°F
- Lower Cost Then 316s.s.
- Lower Transportation Cost
- Lower Installed Cost - Lower Life Cycle Cost
- **Zero Corrosion Rate**
- 5 Year Warranty



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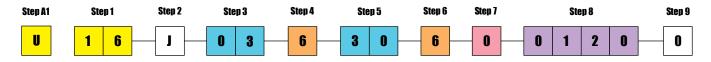
HOW TO ORDER



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: U16J036306001200



STEP A1 **Hose Series**

U = UltraFlex

M = MultiFlex P = ProFlex

STEP 1

Determine I.D. of UltraFlex tube:

16 = 1"

08 = 1/2" 12 = 3/4"

16 = 1" 24 = 1-1/2"

32 = 2"

48 = 3"

64 = 4"

STEP 2

Determine hose product code: J

U = Bare

J = SS Braid

P = PP Braid

S = Special

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STEP 3

Determine fitting style of 1st end: 03 = Male NPT

Threaded

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

Flanges

05 = Flange retainer

15 = Flange retainer P-series 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 = O-ring 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 = I-line male 49 = I-line female

45 = Bevel seat female

46 = Bevel seat male

STEP 4

Determine fitting material: 6 = 316SS

4 = 304SS

6 = 316SS

C = Carbon steel

T = TFF encapsulated

H = Hastelloy

M = Monel

A = Alloy 20

K = Kynar

P = Polypropylene

STEP 5

Determine fitting style of 2nd end: 30 = IIC

Threaded

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

Flances

05 = Flange retainer

15 = Flange retainer P-series

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 = O-ring 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 = I-line male

49 = I-line female 45 = Bevel seat female

46 = Bevel seat male

STEP 6

Determine fitting material: 6 = 316SS

4 = 304SS

6 = 316SS

C = Carbon steel

T = TFE encapsulated

H = Hastelloy

M = Monel

A = Alloy 20K = Kynar

P = Polypropylene

STEP 7

Determine flange material: 0 = None

O = None

D = Ductile iron

C = Carbon steel

4 = 304SS

6 = 316SS

K = Kvnar P = Polypropylene

STEP 8 **Determine overall** length of UltraFlex hose in inches: 0120 = 12'

Last digit in 1/8th increments.

STEP 9

Determine options: O = None

O = None

B = Conductive hose liner

Z = 300# FlgL = 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