

PureFlex IS A VOTING MEMBER



DEMAND PUREFLEX™ QUALITY



CL2™ CHLORINE-BROMINE TRANSFER HOSES





CL2™ 100% COMPLIANT W

CL2™ ADVANTAGES

- Zero corrosion rate
- Does not stress fatigue or stress corrode like metal hose
- 5:1 safety factor for minimum burst
- Monel® fittings for dry service
- Hastelloy® C276 fittings for wet service
- Light weight
- Meets all Chlorine Institute standards for non-metallic hose

CL2™ HOSE SERVICES

- Chlorine
- Bromine
- Sodium hypochlorite
- Other highly aggressive oxidizers or corrosives

PureFlex CL2 hose assemblies are specifically designed for the safe transfer of chlorine in manufacturing, transporting and packaging industries. It is ideal for loading/unloading barges, rail cars, tankers and filling 1-ton, 100 lb and 150 lb cylinders. CL2 hose has excellent chemical resistance and is not subject to stress fatigue or corroding like metal hose. It is light weight, easy to clean and resists corrosion from any exposure to moisture/humidity which can unintentionally enter systems. CL2 hose assemblies are 100% compliant with the Chlorine Institute's Pamphlet 6.

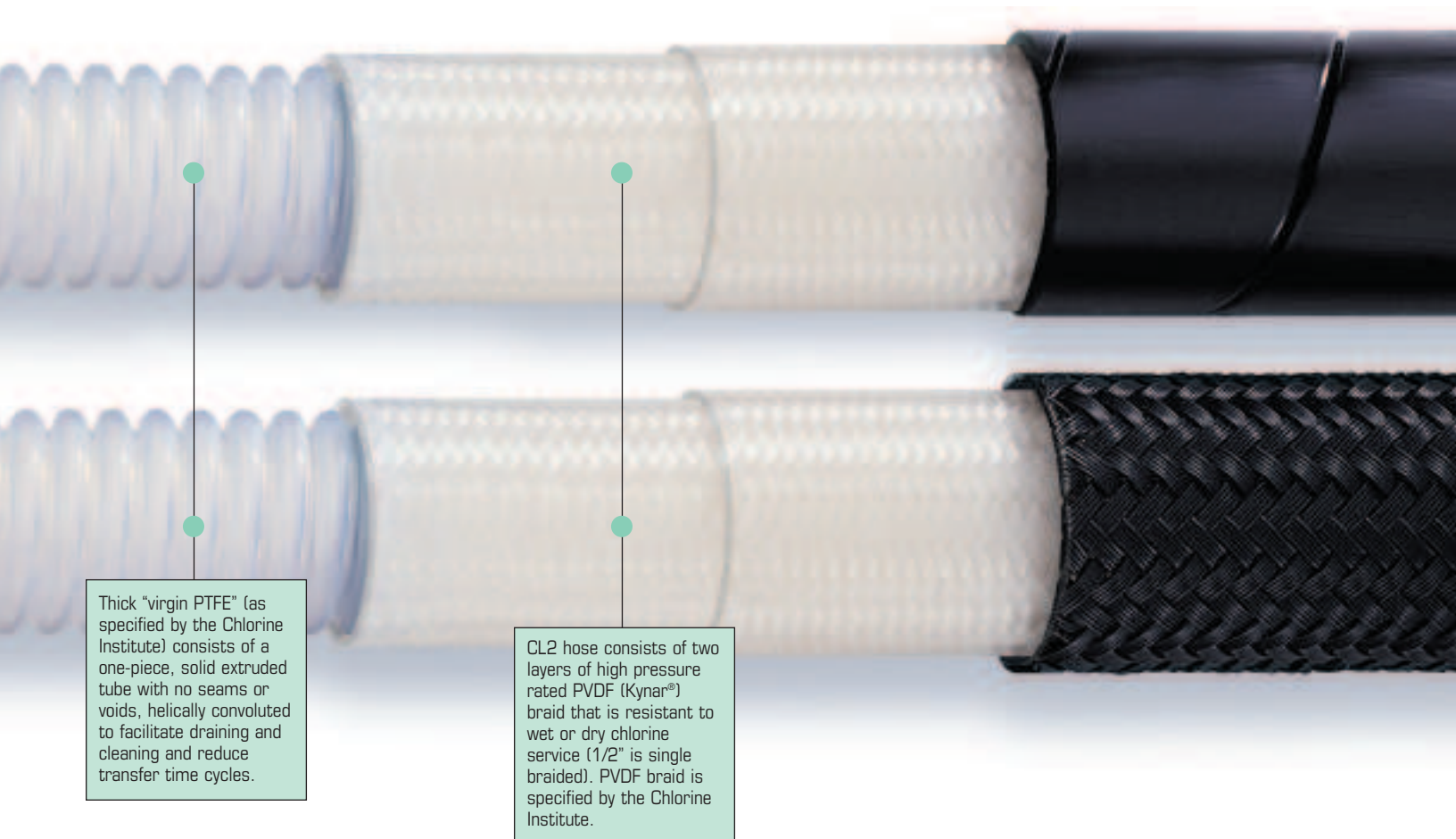
SPECIFICATIONS

Max Temperature Rating: Kynar Braid +225°F

HOSE I.D. NOMINAL (in)	HOSE O.D. NOMINAL (in)	MAX. OPERATING PRESSURE* (psi)	MIN. BURST PRESSURE* (psi)	PROOF PRESSURE TEST* (psi)	NOMINAL WEIGHT** (lbs/ft)
1/2	1.0	500	2500	1000	.19
1	1.5	375	1875	750	.50
1-1/2	2.1	375	1875	750	.90
2	Consult Factory	Consult Factory	Consult Factory	Consult Factory	Consult Factory

*Pressure ratings are based at +70°F (21°C).

**Weight can vary depending on chafe guard selection.



Thick "virgin PTFE" (as specified by the Chlorine Institute) consists of a one-piece, solid extruded tube with no seams or voids, helically convoluted to facilitate draining and cleaning and reduce transfer time cycles.

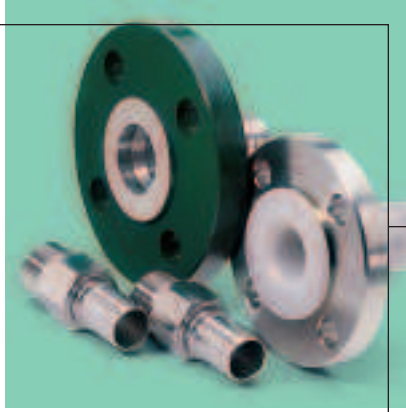
CL2 hose consists of two layers of high pressure rated PVDF (Kynar®) braid that is resistant to wet or dry chlorine service (1/2" is single braided). PVDF braid is specified by the Chlorine Institute.

WITH CHLORINE INSTITUTE SPECIFICATIONS



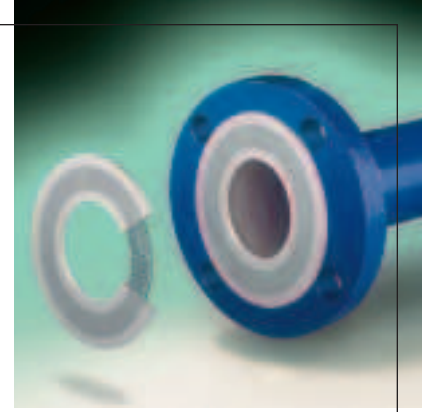
PureFlex options on CL2 hose chafe guards include (left to right):

- PVDF Kynar® heavy braid
- HDPE abrasion guard
- CPE pin pricked rubber



PureFlex offers the widest selection of hose end fittings and materials:

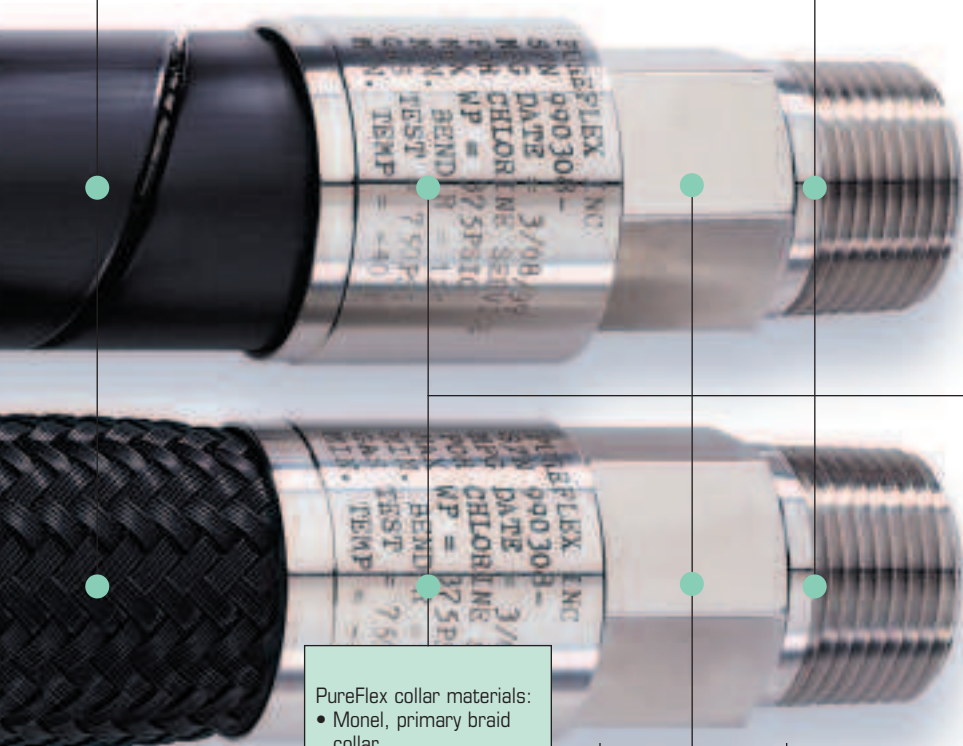
- Schedule 80 NPT's
- Schedule 80 flange retainers
- PFA encapsulated Schedule 80 flange retainers
- Monel material for dry chlorine (standard)
- Hastelloy C276 material for wet chlorine (option)



PureFlex TASK-LINE® Gaskets are manufactured with virgin PTFE resin molded around and through a stainless steel perforated metal insert. TASK-LINE Gaskets are recommended for chlorine service due to many advantages:

- Zero corrosion rate
- Blow-out protection
- Seats and releases easily
- -100°F to +400°F

PureFlex also manufactures lined expansion chambers.



PureFlex collar materials:

- Monel, primary braid collar
- Stainless, secondary chafe guard collar as specified by the Chlorine Institute

1" wide hex flats as specified by the Chlorine Institute.



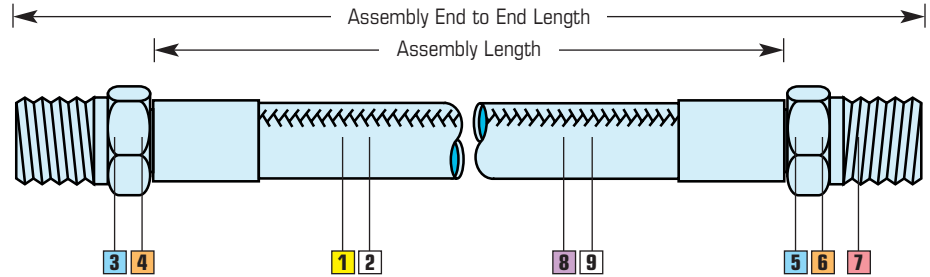
Every PureFlex CL2 hose contains the following information as specified by the Chlorine Institute:

- PureFlex, Inc.
- Manufacturing date
- For chlorine service
- Maximum working pressure
- Minimum bend radius
- Gas test pressure
- Minimum service temperature

CL2

HOW TO ORDER

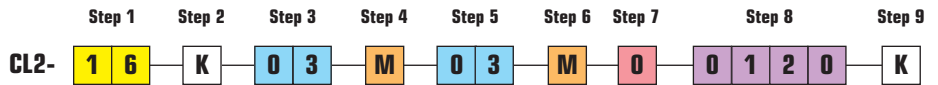
Ordering Information



PUREFLEX™ HOSE ASSEMBLY NUMBERING SYSTEM

Steps to order a 1" CL2 assembly with a length of 12", Monel NPT both ends, Kynar braid with Kynar chafe guard.

Sample part number: CL2-16K03M03M00120K



STEP 1
Determine size:
16 = 1"

08 = 1/2"
16 = 1"
24 = 1-1/2"
32 = 2"

STEP 2
Determine hose braid:
K = Kynar

K = Kynar

STEP 3
Determine fitting style
of 1st end:
03 = Male NPT

Threaded
03 = Male pipe hex NPT
Flanges
05 = Flange retainer
25 = Enc. flange retainer

STEP 4
Determine fitting
material: **M = Monel**

H = Hastelloy
M = Monel

STEP 5
Determine fitting style
of 2nd end:
03 = Male NPT

Threaded
03 = Male pipe hex NPT
Flanges
05 = Flange retainer
25 = Enc. flange retainer

STEP 6
Determine fitting
material: **M = Monel**

H = Hastelloy
M = Monel

STEP 7
Determine flange
material: **0 = None**

0 = None
M = Monel
H = Hastelloy

STEP 8
Determine overall
length of CL2 hose in
inches:
0120 = 12"

Last digit in 1/8th increments.

STEP 9
Determine chafe guard
options:
K = Kynar

E = HDPE abrasion guard
(high-density polyethylene)
K = Kynar braid
R = CPE pin pricked

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4617 East Paris S.E.
Kentwood, MI 49512
Phone: (616) 554-1100
Fax: (616) 554-3633
Web: www.pureflex.com



CL2 502

MTH Hose

Stainless Steel flexible hose lined with Smooth Bore PTFE Liner

304SS flexible metal hose lined with smooth PTFE liner and flared thru standard end fittings. Designed for applications requiring a large diameter smooth bore flexible hose combining the unexcelled corrosion resistance and sanitary properties of PTFE and the durability of flexible metal hose. This smooth bore hose is specified and used in an endless variety of applications where the conditions of service are beyond the capabilities of rubber, synthetic or metal hose alone. The PTFE smooth bore I.D.'s minimize pressure drop. MTH is available with virgin PTFE liner.

MTH Advantage:

Corrosion Resistant- PTFE is fully resistant to the broadest range of industrial chemicals and has a zero corrosion rate, lower life cycle costs and is Non-contaminating.

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

Sanitary – FDA approved materials meet or exceed **3A** requirements.

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

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

Double containment - Metal housing is a secondary containment vessel.

PTFE “Flared-Thru” Fittings:

The thick PTFE tube passes through the end fitting and is flared radially outward against the sealing face of the fitting. This economical design creates a continuous PTFE fluid conduit. Standard fitting styles available are Flanged, Male and Female and Cam Lock. Flange materials available in Epoxy coated Carbon Steel, 304SS and 316SS.

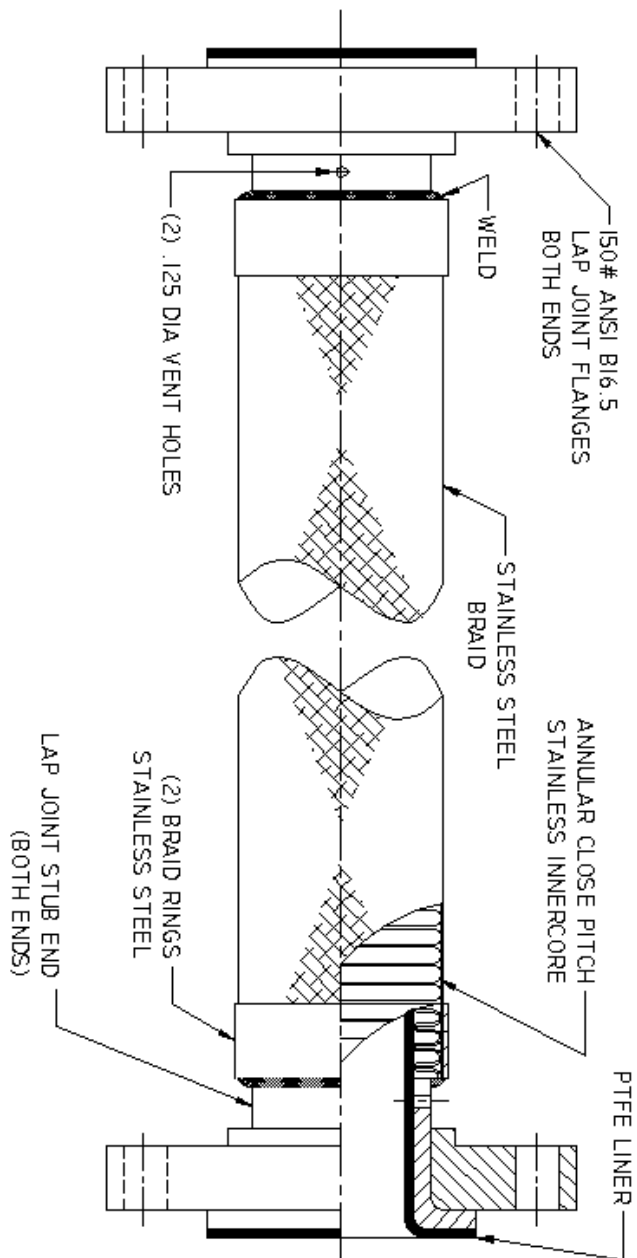
Specifications:

Temperature Range: -65°F(-54°C) to +450°F(232°C)

I.D. NOMINAL	O.D. (in)	WORKING PRESSURE	WORKING PRESSURE	VACUUM (In. Hg)	MINIMUM BEND RADIUS(in)	WEIGHT PER FT. (lbs/ft)
		70°F (psi)	350°F (psi)			
1	1 5/8	765	600	29.9	12.00	1.2
1 1/2	2 1/4	570	475	29.9	15.00	2.1
2	2 15/16	535	435	29.9	21.00	2.8
3	3 11/16	300	235	29.9	28.00	3.0
4	4 7/8	270	190	29.9	46.00	4.0
6	7 13/16	170	190	29.9	65.00	8.9
8	9 1/4	150	150	29.9	89.00	16.0

Operating pressure ratings are one fourth the minimum burst pressure at 70° (21° C)





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ProFlex PFA

Seamless Convolute PFA Hose

This versatile hose was developed as an extremely flexible chemical transfer hose. The open pitch spiral convolutions aid in the draining, flushing and cleaning of the hose. This hose is available with either a high tensile strength / high temperature stainless steel braid or a corrosion resistant / user-friendly polypropylene braid. Applications include the transfer of corrosive chemicals, flexible steam lines, acid handling, the circulation of hot oil, the handling of solvents, high temperature air and conveying of monomers in the manufacturing of plastics. PFA has the same chemical compatibility as PTFE and has much better flex life than that of FEP. Consult the factory for your copy of the "PureFlex Chemical Resistance Handbook" covering over 600 most commonly used industrial chemicals.

ProFlex PFA is suitable for use in all industrial applications where PTFE lined hoses are used. Meets or exceeds all of the performance aspects of competing like products, is the easiest to assemble and fastest to fabricate of all convoluted hoses.

ProFlex PFA Advantage:

Corrosion resistant – ProFlex hose is fully resistant to the broadest range of industrial chemicals and has a zero corrosion rate.

Long continuous lengths – up to 1000 foot and nothing will be shipped that is under 50 foot means less scrap and even higher profits; can be shipped coiled on reels.

Ease of fabrication – fittings do not need PTFE tape wrapped on the barbs and the insert does not require any tooling to be installed; it can be pushed in by hand further reducing fabrication cost.

Seamless tube construction – will not delaminate while in service and suitable for thermal shocking applications; thus increasing service life in certain applications.

Flexibility – the tightest bend radius per size and the least amount of force needed to deflect or move the hose aids in the installation and while in service.

Fittings:

Over 40 standard fitting styles available, including; Flanged, JIC, NPT, Cam Lock, PFA Encapsulated, Solid Kynar and Polypropylene fittings. Standard material is 316 Stainless Steel or Yellow Zinc Dichromate Plated Steel. Epoxy Powder Coated Carbon Steel is also available.

Specifications:

Temperature Range: Stainless Steel Braid -65°F to +450°F – Polypropylene Braid -20°F to +250°F

I.D. NOMINAL	O.D. SS Braid NOMINAL	O.D. PolyPro Braid NOMINAL	WORKING PRESSURE (PSI)		VACUUM RATING (In. Hg)	MINIMUM BEND RADIUS (in)	WEIGHT PER FOOT (lbs)
			SS BRAID	POLYPRO BRAID			
1/2	0.74	0.90	1500	575	Full	1.50	0.20
5/8	0.92	1.17	1200	550	Full	1.75	0.25
3/4	1.06	1.26	1100	500	Full	2.00	0.28
1	1.32	1.50	1000	400	Full	2.50	0.35
1 1/4	1.65	1.88	825	325	Full	3.50	0.49
1 1/2	1.92	2.16	750	300	Full	3.75	0.60
2	2.42	2.65	625	250	Full	6.50	0.85
3	3.42	3.65	150	150	24.0	9.50	1.79
4	4.47	4.70	125	125	24.0	11.25	2.25
6	6.55	6.78	125	125	CF	CF	CF

Operating pressure ratings are one fourth the minimum burst pressure at 70° F (21° C) – Vacuum Ratings are at 70° F (21° C)



DEMAND PUREFLEX QUALITY



SmoothFlex™ Series

PTFE Smooth-Bore Hoses



SmoothFlex™

SmoothFlex™ Hose

SmoothFlex™ is a flexible smooth bore PTFE hose with stainless steel braided reinforcement that is designed for long trouble free service in a wide range of applications that may involve pressure, temperature and chemical extremes. The hose is available in Virgin PTFE for high purity applications and anti-static conductive black PTFE where electrostatic dissipation is required. SmoothFlex™ is an excellent choice for pharmaceuticals, food and beverage applications, the transfer of viscous media such as paints and adhesives, fluid transfer of corrosive chemicals, and high temperature hydraulic or pneumatic applications.

Zero Corrosion Rate
 Non-Stick Properties
 FDA Approved
 Meets Pharmacopoeia Class VI
 SIP & CIP
 -65°F to 450°F Temp. Range
 Durable

SmoothFlex™ Nominal Bore (Dash Size)

DASH SIZE	NOMINAL I.D. (inch)	NOMINAL O.D. (inch)	WORKING PRESSURE (psi)	MINIMUM BURST (psi)	MINIMUM BEND RADIUS (in)	WEIGHT (lbs / ft)
- 3	.125	.250	3,000	12,000	2.0	.047
- 4	.187	.312	3,000	12,000	2.0	.077
- 5	.250	.375	3,000	12,000	3.0	.098
- 6	.312	.445	2,500	10,000	4.0	.110
- 7	.375	.503	2,250	9,000	4.5	.124
- 8	.405	.549	2,000	8,000	5.0	.124
- 10	.500	.648	1,500	6,000	6.5	.154
- 12	.625	.778	1,200	4,800	8.0	.170
- 14	.750	.885	1,100	4,400	8.0	.198
- 16	.875	1.030	1,000	4,000	9.0	.273
- 18	1.000	1.135	900	3,600	10.00	.305
- 20	1.125	1.290	750	3,000	16.00	.350

Ratings are based at 70°F (21°C)
 Temperature range -65°F (-54°C) to 450°F (232°F)

SmoothFlex™ True Bore (Full I.D. Size)

NOMINAL I.D. (inch)	NOMINAL O.D. (inch)	WORKING PRESSURE (psi)	MINIMUM BURST (psi)	VACUUM RATING (In Hg)	MINIMUM BEND RADIUS (in)	WEIGHT (lbs / ft)
1/4	.375	3,000	12,000	29.9	3.0	.098
3/8	.503	2,200	9,000	29.9	4.5	.124
1/2	.648	1,500	6,000	29.9	6.5	.154
3/4	.885	1,100	4,400	20.0	8.2	.198
1	1.135	1,000	4,000	14.0	10.0	.273

Ratings are based at 70°F (21°C)
 Temperature range -65°F (-54°C) to 450°F (232°F)

Hose Cover Options



1



2



3



4



5



6

Electrically Heated Option



1 Silicone Cover

2 Anti Scuff Sock

3 Fire Sleeve

4 Polyolefin Heat Shrink (other colors available)

5 Anti Kink Guard

6 Spring Guard

SmoothFlex™ High Pressure

SIZE	NOMINAL I.D. (inch)	NOMINAL O.D. (inch)	WORKING PRESSURE (psi)	MINIMUM BURST (psi)	MINIMUM BEND RADIUS (in)	WEIGHT (lbs / ft)
1/4	.222	.375	5,000	16,000	1.5	.108
3/8	.308	.473	5,000	16,000	2.5	.180
1/2	.401	.600	5,000	16,000	2.9	.240
5/8	.495	.710	5,000	16,000	3.3	.324
3/4	.617	.970	5,000	16,000	4.0	.660
1	.867	1.250	5,000	16,000	5.0	1.020
1 1/4	1.125	1.600	4,000	16,000	12.0	1.680
1 1/2	1.375	1.920	4,000	12,000	14.0	2.280

Ratings are based at 70°F (21°C)

Temperature range -65°F (-64°C) to 400°F (204°F)

Reduce working pressure on all sizes to maximum of 3,000psi @ 400°F (204°C)

For impulse services reduce working pressures by 1,000psi

SmoothFlex™ Ultra-High Pressure

SIZE	NOMINAL I.D. (inch)	NOMINAL O.D. (inch)	WORKING PRESSURE (psi)	MINIMUM BURST (psi)	MINIMUM BEND RADIUS (in)	WEIGHT (lbs / ft)
1/4	.229	.495	6,000	24,000	3.00	.24
3/8	.300	.615	6,000	24,000	5.00	.40
1/2	.395	.725	6,000	24,000	5.75	.49
5/8	.525	.885	4,000*	12,000	6.25	.67
3/4	.650	1.060	4,000*	12,000	7.75	.93
1	.875	1.370	4,000*	12,000	9.63	1.45

Ratings are based at 70°F (21°C)

Temperature range -65°F (-64°C) to 400°F (204°F)

*Reduce working pressure to maximum of 3,000psi @ 400°F (204°C)

PureFlex Product Integration



DEMAND PUREFLEX™ QUALITY

ULTRAFLEX™ SERIES

ULTRA-FLEXIBLE CONVOLUTED HOSE OF PTFE
FOR HEAVY DUTY APPLICATIONS



Phone: (616) 554-1100 • Fax: (616) 554-3633

ULTRAFLEX HOSE SERIES



Unbraided



Static-dissipating, unbraided



316 Stainless steel braid



Static-dissipating, 316 stainless steel braid



Polypropylene braid



Static-dissipating, polypropylene braid

PUREFLEX INNOVATION

No other company in the industry rivals PureFlex's product integration. Using the most advanced manufacturing techniques, PureFlex integrates design, hose and fitting manufacturing, testing and assembly—all under one roof. Add the largest selection of end fittings and it's easy to see why PureFlex is the company of choice for those with demanding transfer processes.

ULTRAFLEX HOSE

UltraFlex heavy duty hose is made with the thickest, seamless PTFE liner in the industry which makes it ideal for nearly all demanding chemical and high purity 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 factory cuffed and flared through: flanges; sanitary fittings; male and female cams.

ULTRAFLEX ADVANTAGES

- **Corrosion resistant.** PTFE is fully resistant to the broadest range of industrial chemicals and has a zero corrosion rate and lower life cycle costs.
- **Cleanable.** Non-stick, low porosity tube does not trap bacteria and can be cleaned with steam, detergents, caustics or solvents.
- **Sanitary.** FDA-approved materials meet or exceed 3A requirements.
- **Compatible.** Will not contaminate or impart a taste, color or odor to any media.
- **Flexible.** Ultra flexible design that resists flex cracking and stress corroding.
- **Durable.** Designed for extended use in hostile environments involving severe chemical, thermal, and mechanical stresses. Does not suffer aging or embrittlement, even with extreme thermal cycling.

SPECIFICATIONS

Stainless Braid and No Braid 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 (in)	OPERATING PRESSURE (PSI)			MINIMUM BEND RADIUS (in)	VACUUM RATING (in-Hg)	WEIGHT PER FOOT (lbs)
	S.S. BRAID	POLYPROPYLENE BRAID	BARE HOSE			
1/2	400	400	40	1.75	29.9	0.20
3/4	400	400	30	2.25	29.9	0.35
1	350	350	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	275	225	15	5.25	29.9	0.95
2-1/2	225	200	15	8.50	29.9	1.50
3	150	150	15	9.50	29.9	1.79
4	125	125	15	11.95	24.0	2.25

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).



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. Used for insulating hose. Protects personnel who handle the hose from extreme interior temperatures.
- 3 POLYOLEFIN**
Provides a smooth, cleanable covering over braided hose.
- 4 ARMOR GUARD**
Protects hose from kinking by not allowing handler to exceed the bend radius.
- 5 SPRING GUARD**
Provides kink resistance and protects hose exterior from scuffing and damage when dragged over rough surfaces.



HOSE END CONNECTIONS

Over 40 standard fitting styles are manufactured including: flanged, sanitary, JIC, NPT, cam lock. All fittings feature PureFlex's exclusive high performance barb design (see page 5).

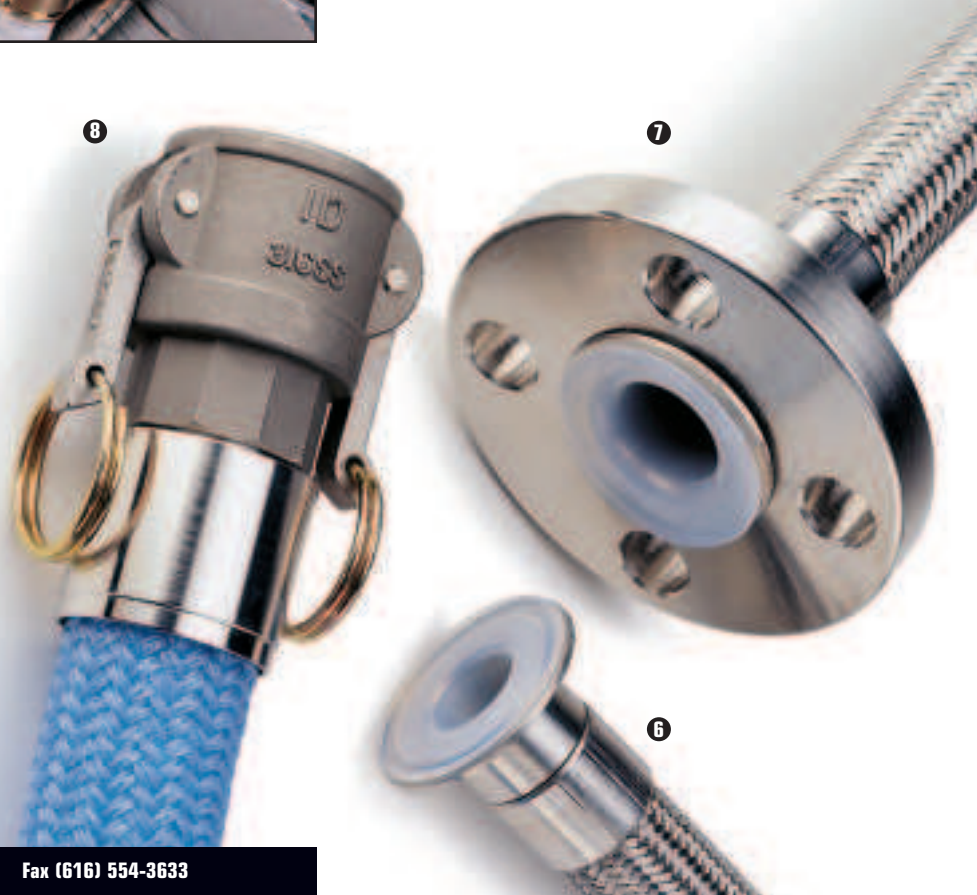
SURFACE FINISHES

Ultra smooth internal surface finishes meet or exceed Pharmacopoeia Class VI, FDA, USDA and 3A standards.

FLARE-THRU

The thick, PTFE tube can be passed through the end fitting and flared radially outward against the sealing face of the following fittings:

6 Sanitary, **7** Flanged, **8** Female Cam, and Male Cam (not pictured).



FITTINGS

PureFlex fittings and collars are manufactured specifically for PFA and plastic-lined hoses. Applying the highest quality standards, they are designed for compatibility with most manufacturers' true-bore plastic hoses including smooth bore, convoluted, cuffed, and rubber-covered plastic lined.

In addition, PureFlex has designed and manufactured the most diverse fitting and collar selection in the industry.

All fitting styles may not be available for all hose types.

FITTING MATERIALS

A wide range of fitting materials include carbon steel, 304 S.S., 316 S.S., Monel®, Hastelloy®, solid Kynar® (PVDF), or solid polypropylene. Other materials available upon request.

To achieve maximum plastic hose performance, specify PureFlex encapsulated fittings available in PFA and polypropylene. Advantages include zero corrosion rates and lower lifecycle costs.

THREADED FITTINGS



STYLE 03 Male Pipe (NPT) Hos



STYLE 04 Male Pipe (NPT)



STYLE 05 Female Pipe (NPT)



STYLE 30 JIC Female Swivel



STYLE 23 Male Union (NPT)



STYLE 36 Female Union (NPT)



STYLE 37 Female Swivel (NPS)



JIC/NPT Adaptor with PTFE Seal

CAM LOCK



STYLE 07 Female CAM Lock 'D'



STYLE 17 Female CAM Lock 'D' Reducer



STYLE 27 Female CAM Lock 'D' (PFA Encapsulated)



STYLE 08 Male CAM Lock 'E'



STYLE 28 Male CAM Lock 'E' (PFA Encapsulated)



STYLE 29 Male Flange Adaptor (PFA Encapsulated)



STYLE 21 Female Flange Adaptor (PTFE Encapsulated)



STYLE 02 CAM Spool Adaptor



STYLE 22 CAM Spool Adaptor (PFA Encapsulated)

**COMPRESSION,
SPLICE,
BUTTWELD**

SANITARY

FLANGES



STYLE 31 O-Ring Female Swivel 'D'



STYLE 40 Sanitary (Tri-Clamp)



STYLE 45 Bevel Seat Female



STYLE 05 Flange Retainer
STYLE 15 P Series Flange Retainer



STYLE 38 Compression Adapter



STYLE 40F Sanitary (FlexChem hose only)



STYLE 46 Bevel Seat Male



STYLE 25 Flange Retainer (PFA Encapsulated)



STYLE 39 Compression Connector with Nut and Ferrule



STYLE 40U Sanitary Flare Thru (UltraFlex hose only)



STYLE 48 I-Line Male



STYLE 29F Flare Thru Flange (UltraFlex hose only)



STYLE 18 Tube Buttweld



STYLE 41 Sanitary Step-Up



STYLE 49 I-Line Female



STYLE 29F Flare Thru Flange (FlexChem hose only)



STYLE 19 Pipe Buttweld



STYLE 42 Sanitary Mini



STYLE 44 Sanitary X Male Cam

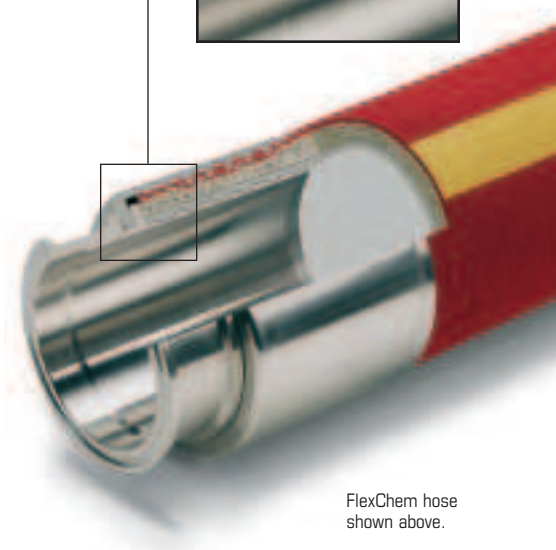
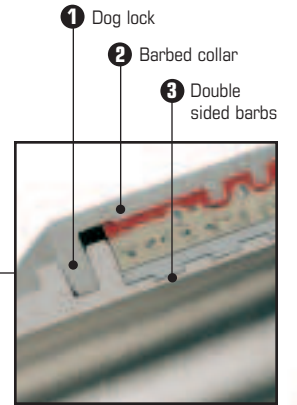


STYLE 11 Splice

**PUREFLEX
"HIGH PERFORMANCE"
FITTING BARB DESIGN**

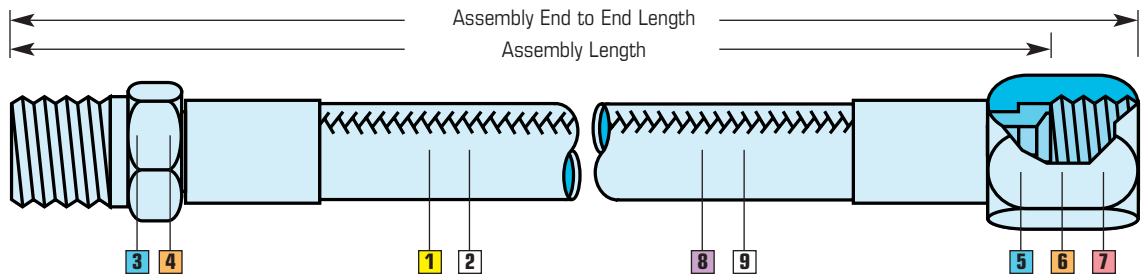
- Double-sided, patent-pending barb design locks fittings securely into hose.
- Fitting barb height and angles are tightly controlled to eliminate tearing and splitting of plastic hose during assembly, fabrication, and operation.
- Optimizes pressure and sealing capabilities.
- Eliminates: cold flowing of liner around fittings; hose shifting in both directions; fitting blow off.
- Smooth transition between fitting and hose eliminates product entrapment.
- Easy-to-assemble collar and fitting "dog lock" design.

TRI-LOC™ ULTIMATE BLOW OFF PREVENTION



FlexChem hose shown above.

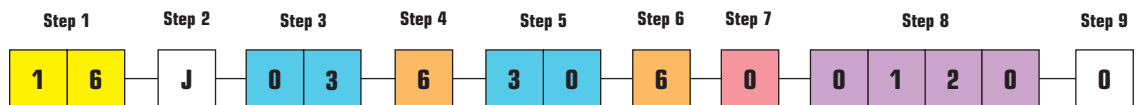
HOW TO ORDER



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: **16J036306001200**



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

UltraFlex
U = Bare
J = SS Braid
P = PP Braid
K = Kynar Braid

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 = TFE encapsulated
H = Hastelloy
M = Monel
A = Alloy 20
K = Kynar
P = Polypropylene

STEP 5

Determine fitting style of 2nd end:
30 = JIC

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

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15 = Flange retainer P-series
25 = Enc. flange retainer
29 = Flare thru flange

Camlock

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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 20
K = Kynar
P = Polypropylene

STEP 7

Determine flange material:
0 = None

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 = 12"

Last digit in 1/8th increments.

STEP 9

Determine options:
0 = None

0 = 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

THE MOST ADVANCED FLUOROPOLYMER HOSE SYSTEM AVAILABLE



**In-house integration
of design, hose
manufacturing,
fitting manufacturing,
assembly and testing
from a single company.**

UltraFlex™

Ultra-flexible heavy duty convoluted hose.



MultiFlex™

Superior flexibility for higher pressure applications.



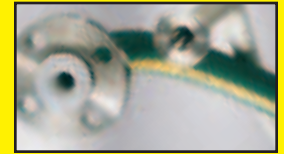
MTH™ (Metal PTFE Hose)

Flexible metal hose with smooth bore PTFE liner.



FlexChem™

Rubber covered smooth bore FEP & PTFE hose.



ProFlex™

Industrial grade, high quality, low priced convoluted hose.



SmoothFlex™

Smooth bore PTFE hose with stainless steel braid.



PureSite™

Unbreakable translucent FEP sight gages.



Task-Line® Gaskets

PTFE gaskets with encapsulated stainless steel insert.



Task-Line® Grounding Paddles

Pipe static-dissipating paddles.



MARKETS

Chemical Process
Pharmaceutical
Steel
Food Processing
Automotive
Agriculture
Pulp and Paper
Petroleum
Mining
Railroad
Dairy
Textile
Semiconductor

APPLICATIONS

Acid Transfer
Pickling
Reverse Osmosis
Steam Transfer
Molding Equipment
Adhesives
Air Actuation
Sanitary Transfer
Purification Systems
Centrifuges
Extrusion Presses
Caustic Wash
High Purity

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4617 East Paris S.E.
Kentwood, MI 49512
Phone: (616) 554-1100
Fax: (616) 554-3633
Web: www.pureflex.com



UltraFlex 0201-0104

MultiFlex™

Convolute PTFE Hose

This versatile and economical hose combines excellent flexibility with a high pressure rating. Open pitch spiral convolutions are self-draining to facilitate cleaning. Available braids include Stainless Steel and Polypropylene. The tube is available in virgin PTFE or conductive black where electrostatic dissipation is required.

MultiFlex™ Advantage:

Corrosion resistant - PTFE is fully resistant to the broadest range of industrial chemicals and has a zero corrosion rate, lower life cycle costs and is Non-contaminating.

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

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

Sanitary - FDA approved materials that meet or exceed **3A** requirements.

Flexible - Does not fatigue or stress corrode like metal hose.

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

Fittings:

Over 40 standard fitting styles available, including; Flanged, Sanitary, JIC, NPT, Cam Lock, PFA Encapsulated, Solid Kynar and Polypropylene fittings. Standard material is 316 Stainless Steel. Non-Wetted fitting material is Epoxy Powder coated Carbon Steel. Fitting designs feature high performance smooth internal finishes exceeding **Pharmacopoeia class VI, FDA, USDA** and **3A** standards. All collars are Stainless Steel.

Specifications:

Temperature Range: -65°F (-54°C) to 450°F (232°C)

I.D NOMINAL	O.D. (in) Stainless Steel NOMINAL	O.D. (in) PolyPro NOMINAL	WORKING PRESSURE (PSI)		VACUUM RATING (In-Hg)	MINIMUM BEND RADIUS (in)	WEIGHT PER FT. (lbs>)
			SS Braid	PolyPro Braid			
1/2	0.740	0.900	1500	575	29.9	1.50	0.20
3/4	1.060	1.260	1100	500	29.9	2.00	0.28
1	1.320	1.500	1000	400	29.9	2.50	0.35
1 1/2	1.920	2.160	750	300	29.9	3.75	0.60
2	2.420	2.650	625	250	24.0	6.50	0.85
3	3.420	3.650	150	150	20.0	7.50	1.15

Operating pressure ratings are one fourth the minimum burst pressure at 70°F (21°C)

