

FLEXCHEM®
RUBBER COVERED, FEP & PTFE
LINED TRANSFER HOSES





No other company in the industry rivals Hosecraft's product integration. Using the most advanced manufacturing techniques, Hosecraft 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 Hosecraft is the company of choice for those with demanding transfer processes.

#### **FLEXCHEM HOSE**

FlexChem is one of the industry's most versatile, rubber covered FEP-lined transfer hoses. It is designed for full flow applications that require maximum flexibility, minimum weight high purity.

This smooth bore FEP hose with its EPDM rubber cover is easy to handle and resists abrasion and chemical attack while it facilitates easy cleanability. The smooth, rubber cover makes it easy for operators to safely grip and handle the hose.

Ment FEP Lined Musen

FlexChem hose incorporates a
FEP, smooth bore design which
gives it superior flexibility. Through
a proprietary process, the FEP
liner is bonded, covered and reinforced with multi-layered rubber,
spiral-wound polyester cords and
a double helix wire which gives it
superior flexibility. Grounding is
possible via its internal wires.

This wire helix "back bone" also supports full vacuum service. FlexChem series hose is available in white FEP or a PTFE conductive black liner where electrostatic dissipation is required. To ensure continuous fluid contact with FEP throughout the hose assembly, the FEP liner can be factory flared through: flanges; sanitary fittings; male and female cams.

#### **FLEXCHEM ADVANTAGES**

## Corrosion Resistant.

FEP & PTFE are fully resistant to the broadest range of industrial chemicals and have a zero corrosion rate and lower life cycle cost.

# 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.

The most flexible rubber covered hose in the industry. 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.

#### SPECIFICATIONS

Temperature Range: -40 °F (-40 °C) to 350 °F (177 °C)

I.D. Nominal (in)	O.D. NOMINAL	WORKING PRESSURE (psi)	MIN. BURST PRESSURE (psi)	VACUUM RATING (in. Hg)	MIN. BEND RADIUS (in)	WEIGHT PER FOOT (lbs)
1/2	0.95	350	1000	29.9	2.65	0.34
3/4	1.25	350	1000	29.9	3.50	0.51
1	1.55	450	1800	29.9	4.00	0.72
1-1/4	1.75	375	1500	29.9	8.50	0.89
1-1/2	2.13	350	1400	29.9	10.50	0.99
2	2.68	300	1200	29.9	13.00	1.38
3	3.88	250	1000	29.9	21.00	2.46
4	5.00	175	700	29.9	39.00	3.50
6	7.13	100	400	29.9	58.00	4.75





## **HOSE END CONNECTIONS**

Over 40 standard fitting styles are manufactured including: flanged, sanitary, JIC, NPT and 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, FEP tube can be passed through the end fitting and flared radially outward against the sealing face of the following fittings:

**7** Sanitary **3** Flanged **9** Female Cam, and Male Cam (not picture.)

#### HOSE COVER OPTIONS

SCUFF SLEEVE

Protects hose exterior from damage when dragged over rough surfaces.

PIRE 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.

6 HDPE ARMOR

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

#### FITTINGS

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

In addition, Hosecraft 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.

# **EITTING 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. Advantages include zero corrosion rates and lower lifecycle costs.

### THREADED FITTINGS

### CAM LOCK



STYLE 03 Male Pipe NPT Hex



STYLE 04 Male Pipe NPT



STYLE 07 Female CAM Lock 'D'



STYLE 17 Female CAM Lock 'D' Reducer



STYLE 06 Female Pipe NPT



STYLE 30 JIC Female Swivel



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



STYLE 08 Male CAM Lock 'E'



STYLE 33 Male Union





STYLE 36 Female Union STYLE 28 Male CAM Lock 'E' (PFA Encapsulated)



STYLE 20 Male Flange Adapter (PFA Encapsulated)



STYLE 37 Female Swivel **NPSH** 



JIC Adapter with PTFE STYLE 21 Female Flange STYLE 02 CAM Spool Seal



Adapter (PFA Encapsulated)



Adapter



Adapter (PFA Encapsulated)

# COMPRESSION, SPLICE BUTTWELD



STYLE 31 O-Ring Female STYLE 40 Sanitary Swivel 'D'



(Tri-Clamp)



STYLE 45 Bevel Seat Female



STYLE 05 Flange Retainer STYLE 15 P Series Flange Retainer



STYLE 38 Compression Adapter



STYLE 40F Sanitary Flare Thru (FlexChem hose only)



STYLE 46 Bevel Seat Male



STYLE 25 Flange Retainer (PFA Encapsulated)



STYLE 39 Compression Connector with Nut and Ferrule



STYLE 400 Sanitary Flare Thru (UltraFlex hose only)



STYLE 48 I-Line Male

STYLE 29 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 Adapter

# TRI-LOC™ ULTIMATE **BLOW OFF PREVENTION**

Dog Lock

HOSECRAFTUSA

gles are tightly

hose during

operation.

design.

· Optimizes pressure and sealing capabilities.

· Eliminates: cold

"HIGH PERFORMANCE"

FITTING BARB DESIGN

· Double-sided, patent

pending barb design locks fittings securely into hose. · Fitting barb height and an-

controlled to eliminate tear-

ing and splitting of plastic

assembly, fabrication, and

flowing of the liner around

directions; fitting blow off.

 Smooth transition between fitting and hose eliminates product entrapment. Easy-to-assemble

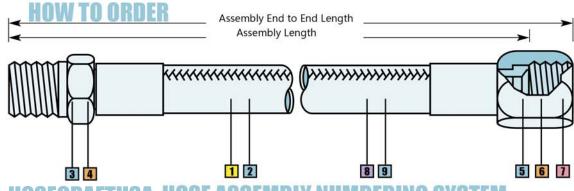
collar and fitting "dog lock"

fittings; hose shifting in both





STYLE 11 Splice



**HOSECRAFTUSA HOSE ASSEMBLY NUMBERING SYSTEM** 

Steps to order a 1" FlexChem Assembly with a length of 12", 316 S.S. Male NPT one end, 316 S.S. JIC other end. No options.

# Sample part number: 16G036309001200

Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9
1 6	6	0 3	6	3 0	6	0	0 1 2 0	0

#### Step 1

# **Determine Size**

16 = 1"

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

16 = 1"

20 = 1-1/4" 24 = 1 - 1/2"

32 = 2"

48 = 3"

64 = 4 96 = 6'

# Step 2 **Determine hose**

# product code: G FlexChem Color Code

G = Green (standard)

Y = Gray W= Yellow

B = Black

L = Blue

A = Purple

Other colors available upon request.

# 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

29F = 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

40F = 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

# Sten 4

# **Determine Fitting** Material: 6 = 316 S.S.

4 = 304 S.S.

6 = 316 S.S.

C = Carbon Steel

T = TFE encapsulated

H = Hastellov

M = Monel

A = Alloy 20

K = Kynar

P = Polypropylene

# Step 5

# **Determine Fitting** Sytle 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

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# Step 6

# **Determine Fitting Material: 6 = 316 S.S.**

4 = 304 S S

6 = 316 S.S.

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 = 304 S.S.

6 = 316 S.S.

K= Kynar

P = Polypropylene

# Step 8

# **Determine Overall Length of SmoothFlex** hose in inches: 0120 = 12"

Last digit in 1/8th in. increments.

# Step 9

# **Determine Options:** 0 = None

0 = None

B = Conductive

Z = 300 # Flg

L = Locking female cam

S = Spring guard

A = Armor guard

F = Firesleeve

P = Polyolefin

T = TFE shrink H = Hypalon

N = Nylon scuff guard



**Silicone** Ultra-Pure Validated Platinum cured Silicone hose & tubing.



Crystal clear FDA approved hose and tubing.



Heated **Hoses** Electrically heat any PureFlex hose up to 450 °F.



**BlueLine** Flexible couplings, expansion joints and bellows.

**THE MOST ADVANCED FLUOROPOLYMER HOSE** SYSTEM AVAILABLE











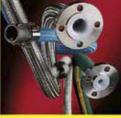


















UltraFlex™ Ultra flexible heavy duty convoluted hose.



MultiFlex™ Superior flexibility for higher pressure applications.



**MTH**<sup>TM</sup> (Metal PTFE Lined Hose) Ultra flexible heavy duty convoluted hose.



FlexChem® Rubber covered smooth bore FEP lined hose.



**ProFlex™** Industrial grade, high quality low priced convoluted PFA hose.



**PureSite™** Unbreakable translucent FEP sight gages.



TASK-LINE® Gaskets PTFE gaskets with encapsu-lated stainless steel insert.



TASK-LINE® Grounding **Paddles** Pipe static

# MARKETS

Chemical Process
Pharmaceutical
Steel
Food Processing
Automotive
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
Hydraulics



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