

FLEXCHEM[®] RUBBER COVERED, FEP & PTFE LINED TRANSFER HOSES



HOSECRAFTUSA INNOVATION

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.

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)	0.D. Nominal	WORKING PRESSURE (psi)	MIN. BURST PRESSURE (psi)	VACUUM BATING (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

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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 **8** Flanged **9** Female Cam, and Male Cam (not picture.)

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.

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.

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E.F.

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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.

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. Advantages include zero corrosion rates and lower lifecycle costs.

THREADED FITTINGS



STYLE 03 Male Pipe NPT Hex





STYLE 06 Female Pipe NPT





STYLE 33 Male Union (NPT)





STYLE 37 Female Swivel NPSH

Seal



STYLE 07 Female CAM Lock 'D'



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



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



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



Adapter (PFA

Encapsulated)

STYLE 22 CAM Spool Adapter (PFA Encapsulated)



CAM LOCK

STYLE 17 Female CAM Lock 'D' Reducer



STYLE 08 Male CAM Lock 'E'



STYLE 20 Male Flange Adapter (PFA Encapsulated)



COMPRESSION, SPLICE, BUTTWELD



STYLE 05 Flange Retainer

STYLE 15 P Series Flange

Retainer

STYLE 25 Flange Retainer

Flange

(UltraFlex hose only)

Encapsulated)

(PFA



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











STYLE 39 Compression Connector with Nut and Ferrule



Thru (UltraFlex

hose only)



STYLE 45 Bevel Seat

STYLE 46 Bevel Seat

Female

STYLE 49 I-Line Female



STYLE 29F Flare Thru Flange (FlexChem hose only)



- · 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 the 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**





Buttweld

Buttweld

STYLE 18 Tube



STYLE 41 Sanitary

Step-up

STYLE 42 Sanitary Mini



STYLE 44 Sanitary X Male CAM Adapter

> FlexChem hose shown above.



STYLE 11 Splice

Male STYLE 400 Sanitary Flare STYLE 29 Flare Thru





Step 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

Determine Fitting

Step 6

Material: 6 = 316 S.S.

4 = 304 S S6 = 316 S.S. C = Carbon Steel T = TFE encapsulated H = Hastelloy M = Monel A = Alloy 20

P = Polypropylene

K = Kynar

Determine Options:

- F = Firesleeve P = Polyolefin T = TFE shrink
- H = Hypalon
- N = Nylon scuff guard



THE MOST ADVANCED

SYSTEM AVAILABLE

FLUOROPOLYMER HOSE

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



PVC 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.





heavy duty convoluted hose.



Superior flexibility for higher pressure applications.

MTHTM (Metal PTFE Lined Hose) Ultra flexible heavy duty convoluted hose.

























FlexChem® Rubber covered smooth bore FEP lined



Industrial grade, high quality low priced convoluted PFA hose.



PureSite™ Unbreakable translucent FEP sight gages.



Gaskets PTFE gaskets with encapsu-lated stainless steel insert.

TASK-LINE®



TASK-LINE® Grounding **Paddles** Pipe static dissipating paddles.

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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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