DEMAND PUREFLEX QUALITY

FLEXCHEM®
RUBBER COVERED, FEP & PTFE LINED TRANSFER HOSES

PureFlex®
AN ANDRONACO INDUSTRIES COMPANY
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.

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)

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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 installed on an existing assembly.
**Fittings and Materials**

PureFlex fittings and collars are manufactured specifically for plastic lined hoses. Applying the highest quality standards, they are designed for compatibility with most manufacturers' true-bore plastic hoses including smooth bore, concoluted, 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. Advantages include zero corrosion rates and lower lifecycle costs.
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 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

1. Dog Lock
2. Barbed Collar
3. Double Sided Barbs

FlexChem hose shown above.
**HOW TO ORDER**

**PUREFLEX® INC. 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

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**Step 1**

**Determine Size**

16 = 1”

08 = 1/2”

12 = 3/4”

16 = 1”

20 = 1 1/4”

24 = 1 1/2”

32 = 2”

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

04 = Male pipe NPT

06 = Female pipe NPT

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 connector w/ nut & ferrule

**Buttweld**

16 = 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

**Step 4**

**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 5**

**Determine Fitting 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

**Flanges**

05 = Flange retainer

15 = Flange retainer P-series

25 = Enc. Flange retainer

**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

**Step 6**

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

**Step 7**

**Determine Flange Material:**

0 = None

D = Ductile iron

C = Carbon steel

4 = 304 S.S.

6 = 316 S.S.

K = Kynar

P = Polypropylene

**Step 8**

**Determine Options:**

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

**Step 9**

**Determine Overall Length of SmoothFlex hose in inches:**

0120 = 12”

Last digit in 1/8th in. increments.
THE MOST ADVANCED FLUOROPOLYMER HOSE SYSTEM AVAILABLE

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.

UltraFlex™
Ultra flexible heavy duty convoluted hose.

MultiFlex™
Superior flexibility for higher pressure applications.

MTF™ (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®
PTFE gaskets with encapsulated stainless steel insert.

TASK-LINE® Grounding Paddles
Pipe static dissipating paddles.
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

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