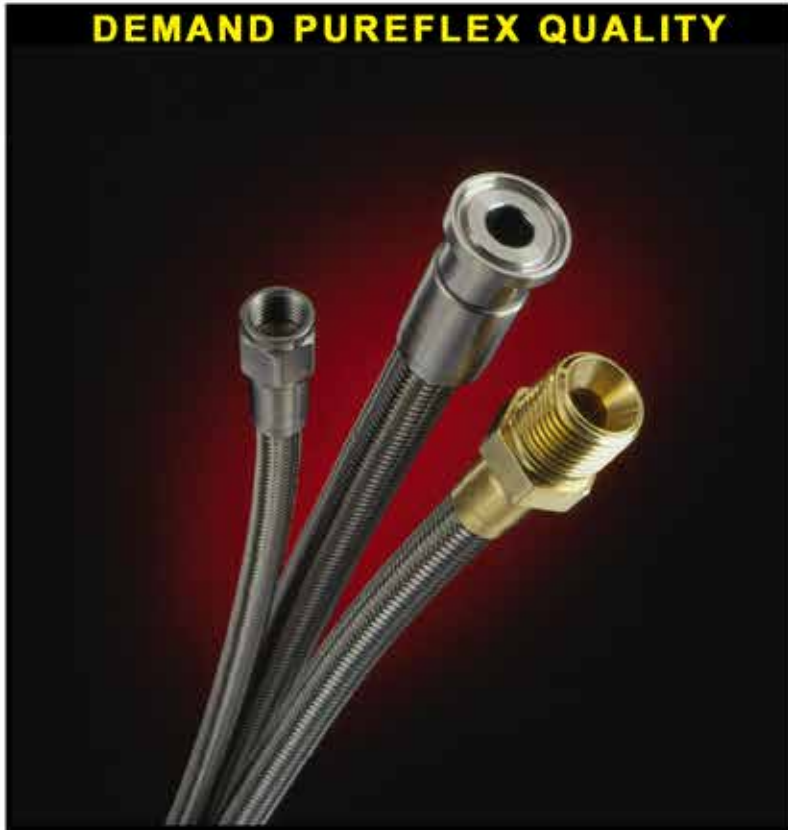


DEMAND PUREFLEX QUALITY



**SMOOTHFLEX™**  
PTFE SMOOTH-BORE HOSES

**PureFlex®**  
AN ANDRONACO INDUSTRIES COMPANY

PureFlex Product Integration

# SmoothFlex™



## SmoothFlex™ Hose

SmoothFlex™ is a flexible smoothbore 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 DIP & CIP
- -65 °F to 450 °F Temp. Range
- Long Life Cycles

## SmoothFlex™ Nominal Bore (SN) Dash Size

DASH SIZE	NOMINAL I.D. (in)	NOMINAL O.D. (in)	WORKING PRESSURE (psi)	MINIMUM BURST (psi)	MINIMUM BEND RADIUS (in)	WEIGHT (lbs / ft)
-3	.125	.24	3,260	13,040	1.6	.047
-4	.187	.30	2,750	11,000	2.0	.077
-5	.250	.35	2,610	10,440	3.0	.098
-6	.312	.43	2,540	10,160	4.0	.110
-7	.375	.48	2,390	9,560	5.0	.124
-8	.405	.54	2,030	8,120	5.4	.124
-10	.500	.64	1,740	6,960	6.6	.154
-12	.625	.74	1,270	5,080	8.0	.170
-14	.750	.91	1,010	4,040	9.2	.198
-16	.875	1.03	870	3,480	9.2	.273
-18	1.000	1.15	870	3,480	12.0	.305
-20	1.125	1.30	630	2,520	16.4	.350

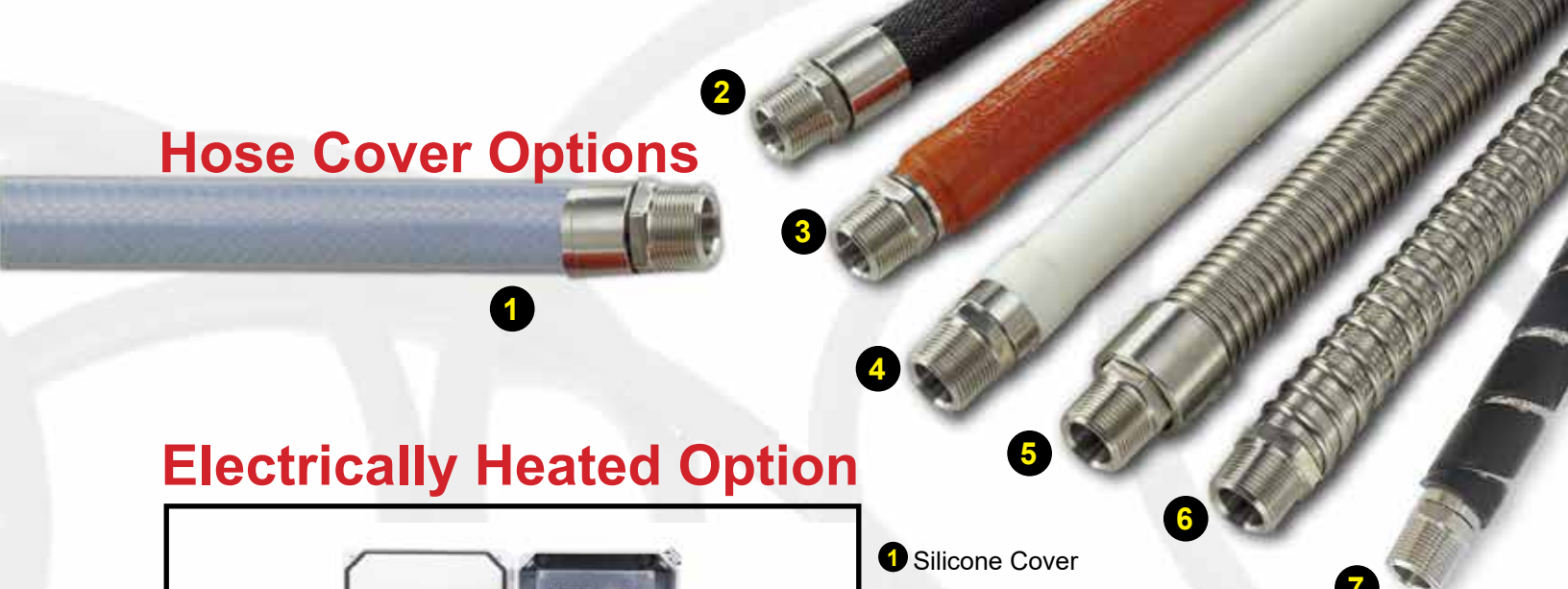
Ratings are based at 70 °F (21 °C)  
Temperature range -65 °F (-54 °C) to 450 °F (232 °C)

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

ACTUAL I.D. (in)	NOMINAL O.D. (in)	WORKING PRESSURE (psi)	MINIMUM BURST (psi)	VACUUM RATING (in hg)	MINIMUM BEND RADIUS (in)	WEIGHT (lbs / ft)
1/4	.35	2,610	10,440	29.9	3.0	.098
3/8	.48	2,390	9,560	29.9	5.0	.124
1/2	.64	1,740	6,960	29.9	6.6	.154
3/4	.91	1,010	4,040	20.0	9.2	.198
1	1.15	870	3,480	14.0	12.0	.305

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

# Hose Cover Options



# 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
- 7 HDPE Armor

## SmoothFlex™ High Pressure (SH)

SIZE	ACTUAL I.D. (in)	NOMINAL O.D. (in)	WORKING PRESSURE (psi)	MINIMUM BURST (psi)	MINIMUM BEND RADIUS	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	.459	.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 (-54 °C) to 400 °F (204 °C)  
 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 (SU)

SIZE	ACTUAL I.D. (in)	NOMINAL O.D. (in)	WORKING PRESSURE (psi)	MINIMUM BURST (psi)	MINIMUM BEND RADIUS	WEIGHT (lbs / ft)
1/4	.229	.495	6,000	24,000	3.0	.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 (-54 °C) to 400 °F (204 °C)  
 \*Reduce working pressure to maximum of 3,000psi @ 400 °F (204 °C)

## FITTINGS

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.

THREADED FITTINGS		CAM LOCK	
			
<b>STYLE 03</b> Male Pipe NPT Hex	<b>STYLE 04</b> Male Pipe NPT	<b>STYLE 07</b> Female CAM Lock 'D'	<b>STYLE 17</b> Female CAM Lock 'D' Reducer
			
<b>STYLE 06</b> Female Pipe NPT	<b>STYLE 30</b> JIC Female Swivel	<b>STYLE 27</b> Female CAM Lock 'D' (PFA Encapsulated)	<b>STYLE 08</b> Male CAM Lock 'E'
			
<b>STYLE 33</b> Male Union (NPT)	<b>STYLE 36</b> Female Union (NPT)	<b>STYLE 28</b> Male CAM Lock 'E' (PFA Encapsulated)	<b>STYLE 20</b> Male Flange Adapter (PFA Encapsulated)
			
<b>STYLE 37</b> Female Swivel NPSH	JIC Adapter with PTFE Seal	<b>STYLE 21</b> Female Flange Adapter (PFA Encapsulated)	<b>STYLE 02</b> CAM Spool Adapter
			
		<b>STYLE 22</b> CAM Spool Adapter (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 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 40U** 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 29** Flare Thru Flange (FlexChem hose only)



**STYLE 19** Pipe Buttweld



**STYLE 42** Sanitary Mini



**STYLE 44** Sanitary X Male CAM Adapter

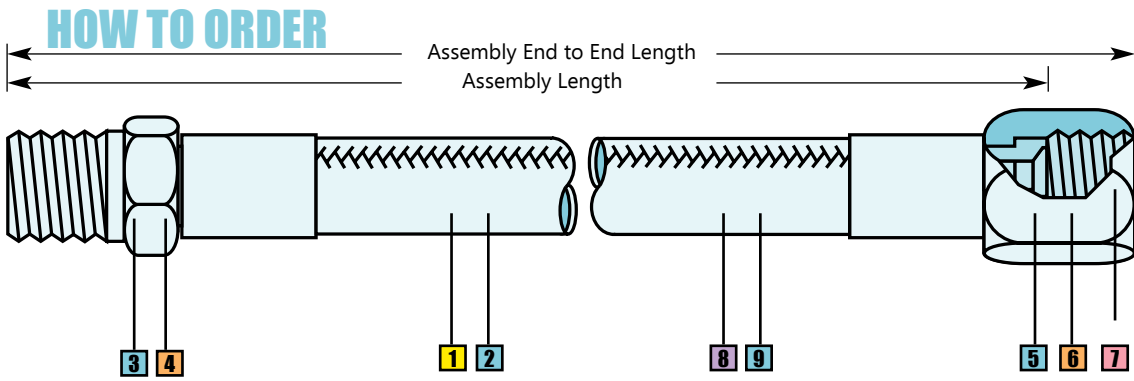


**STYLE 11** Splice



PureFlex world class fitting manufacturing

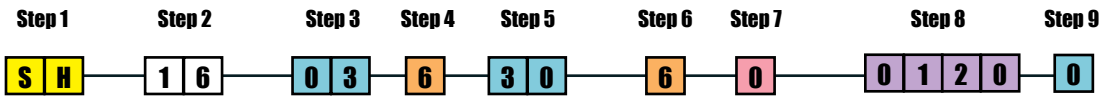




## PUREFLEX® INC. HOSE ASSEMBLY NUMBERING SYSTEM

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

Sample part number: **SH16036306001200**



### Step 1

#### Determine Product Code

- SN = Nominal Bore (Dash Size)
- ST = True Bore
- SH = High Pressure
- SU = Ultra-High Pressure

### Step 2

#### Determine Size

#### SmoothFlex SN Nominal Dash Size Only

- 03 = -3
- 04 = -4
- 05 = -5
- 06 = -6
- 07 = -7
- 08 = -8
- 10 = -10
- 12 = -12
- 14 = -14
- 16 = -16
- 18 = -18
- 20 = -20

#### SmoothFlex ST, SH, SU

- 04 = 1/4"
- 06 = 3/8"
- 08 = 1/2"
- 10 = 5/8"
- 12 = 3/4"
- 16 = 1"
- 20 = 1 1/4"
- 24 = 1 1/2"

Actual I.D. may vary.  
Check specifications on pages 2 & 3 for your hose choice.

### 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

#### 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
- 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**

#### 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
- 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 = 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.



**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.

**ONE SOURCE FOR  
ALL YOUR NEEDS**



**UltraFlex™**  
Ultra flexible  
heavy duty con-  
voluted hose.



**MultiFlex™**  
Superior  
flexibility for  
higher pressure  
applications.



**MTH™  
(Metal PTFE Lined  
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heavy duty con-  
voluted hose.



**FlexChem®**  
Rubber  
covered smooth  
bore FEP lined  
hose.



**ProFlex™**  
Industrial  
grade, high  
quality low  
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**PureSite™**  
Unbreakable  
translucent FEP  
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**TASK-LINE®  
Gaskets**  
PTFE gaskets  
with encapsu-  
lated stain-  
less 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  
Hydraulics

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