



# **COMPOSITE HOSE ASSEMBLIES**

**Engineered Solutions For Pipe Motion**

Canada   
[www.thorburnflex.com](http://www.thorburnflex.com)

## THORFLEX Polypropylene & PTFE Composite Hose Assemblies



Swage Fitting to End Joints

### Flexible & Lightweight for Ease of Handling

Thorflex type PGP/SSP are composite hoses specifically designed for service with a large variety of industrial petro-chemicals in use today. Chemical resistance is achieved by the use of 6 seamless polypropylene tubes incorporated in the body of each hose. The seamless tubes eliminate any potential leak paths but does not sacrifice liability, flexibility, durability or safety in any way.

Thorflex type SST/SGT hose is constructed around a PTFE inner liner, backed up by solid polypropylene tubes and reinforced with high-strength, high-density polyethylene fabric. The unique chemically inert qualities of PTFE make this an ideal hose for transfer of particularly aggressive chemicals and solvents.

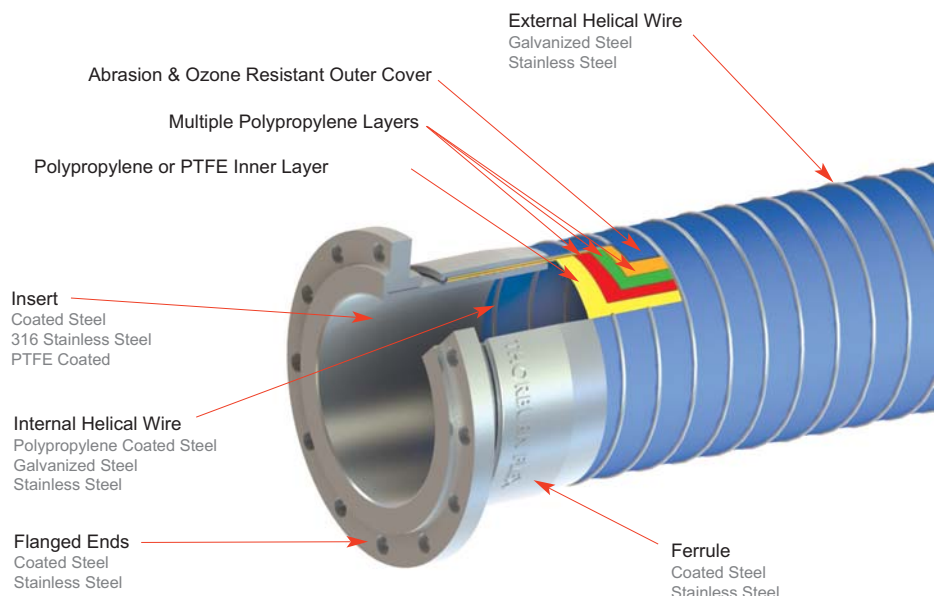
## THORFLEX Composite Hose Construction

### SSP/PGP - Ideal Hose for Handling:

- Most corrosive acids and alkalis
- Aldehydes
- Amines
- Alephatic
- Aromatic fuels
- Chlorinated hydrocarbons
- Alcohols
- Esters
- Keytones
- Lacquers
- Sulphuric Acid

### SST/SGT - Ideal Hose for Handling:

- Butylchloride
- Chlorosulphonic acid
- Oleum
- Pentachloroethane



## Typical Applications

Chemical Plants



Oil Refineries



Marine Terminals



Chemical Haulers



# THORFLEX Composite Hose for Petro-Chemical Transfer Service

## Standard Chemicals

### THORFLEX TYPE SSP (Blue Cover)

- S Stainless Steel (316) Internal Wire
- S Stainless Steel (316) External Wire
- P Polypropylene Tubes

### THORFLEX TYPE PGP (Blue Cover)

- P Polypropylene Coated Galvanized Internal Wire
- G Galvanized External Wire
- P Polypropylene Tubes

### Features:

- Light and easy to handle
- Extremely low temperature flexing
- Double end-to-end electrical continuity
- Resists dragging wear and abrasion
- Full Vacuum
- Complies with Canadian Coast Guard Specifications  
US Coast Guard regulations: 33CFR Sections 154.500 & 154.810  
British Standard BS5842 (1980)

## Aggressive Chemicals

### THORFLEX TYPE SST (Red Cover)

- S Stainless Steel (316) Internal Wire
- S Stainless Steel (316) External Wire
- T PTFE Liner

### THORFLEX TYPE SGT (Red Cover)

- S Stainless Steel (316) Internal Wire
- G Galvanized External Wire
- T PTFE Liner

- Temperature: -60°F to 212°F (-51°C to 100°C)  
depending on conveyant
- Couplings: Swaged type Nipples, Flanges,  
Camlok Quick Couplers
- CRN: Available for all Canadian  
Provinces

## THORFLEX Series 58TCL Hose Specifications for 150 PSI Design Pressure

Part Number	Hose ID		Design Pressure		Bend Radius		Weight	
	mm	in	KPa	PSI	mm	in	kg/m	lbs/ft
58TCLXXX-16	25	1	1034	150	150	6	1.1	0.77
58TCLXXX-24	40	1.5	1034	150	150	6	1.5	1.01
58TCLXXX-32	50	2	1034	150	175	7	1.8	1.24
58TCLXXX-40	65	2.5	1034	150	175	7	2.8	1.85
58TCLXXX-48	80	3	1034	150	300	12	4.2	2.79
58TCLXXX-64	100	4	1034	150	350	14	4.8	3.23
58TCLXXX-96	150	6	1034	150	525	21	10.6	7.12
58TCLXXX-128	200	8	1034	150	700	28	15.2	10.21
58TCLXXX-160	250	10	1034	150	900	36	20.0	13.45
58TCLXXX-192	300	12	1034	150	1100	44	24.0	16.10

\* XXX - Specify Hose Type | SSP, PGP, SST, or SGT

## THORFLEX Series 58TCH Hose Specifications for 200 PSI Design Pressure

Part Number	Hose ID		Design Pressure		Bend Radius		Weight	
	mm	in	KPa	PSI	mm	in	kg/m	lbs/ft
58TCHXXX-16	25	1	1379	200	200	8	1.3	0.90
58TCHXXX-24	40	1.5	1379	200	200	8	1.8	1.20
58TCHXXX-32	50	2	1379	200	225	9	2.2	1.50
58TCHXXX-40	65	2.5	1379	200	225	9	3.3	2.20
58TCHXXX-48	80	3	1379	200	350	14	4.3	2.90
58TCHXXX-64	100	4	1379	200	400	16	5.4	3.65
58TCHXXX-96	150	6	1379	200	575	23	12.6	8.50
58TCHXXX-128	200	8	1379	200	800	32	20.1	13.50
58TCHXXX-160	250	10	1379	200	1000	40	26.5	17.80
58TCHXXX-192	300	12	1379	200	1200	48	31.8	21.35

\* XXX - Specify Hose Type | SSP, PGP, SST, or SGT

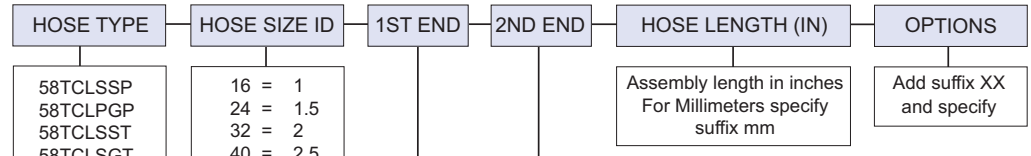


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ISIR Romania | CNCAN Romania | EN 13480-2002 | HAF 604 China | TSG China

## How to Order THORFLEX Composite Hose Assemblies



Hose size code in  
1/16 inch

### First End / Second End Fitting Codes & Descriptions

- 01 - Fixed Flange ANSI 150 wetted parts Carbon Steel non-wetted Carbon Steel
- 02 - Fixed Flange ANSI 150 wetted parts Stainless Steel non-wetted Carbon Steel
- 03 - Fixed Flange ANSI 150 wetted parts Stainless Steel non-wetted Stainless Steel
- 04 - Fixed Flange ANSI 300 wetted parts Carbon Steel non-wetted Carbon Steel
- 05 - Fixed Flange ANSI 300 wetted parts Stainless Steel non-wetted Carbon Steel
- 06 - Fixed Flange ANSI 300 wetted parts Stainless Steel non-wetted Stainless Steel
- 07 - Lapjoint Flange ANSI 150 wetted parts Carbon Steel non-wetted Carbon Steel
- 08 - Lapjoint Flange ANSI 150 wetted parts Stainless Steel non-wetted Carbon Steel
- 09 - Lapjoint Flange ANSI 150 wetted parts Stainless Steel non-wetted Stainless Steel
- 10 - Lapjoint Flange ANSI 300 wetted parts Carbon Steel non-wetted Carbon Steel
- 11 - Lapjoint Flange ANSI 300 wetted parts Stainless Steel non-wetted Carbon Steel
- 12 - Lapjoint Flange ANSI 300 wetted parts Stainless Steel non-wetted Stainless Steel
- 13 - Male NPT wetted parts Carbon Steel non-wetted Carbon Steel
- 14 - Male NPT wetted parts Stainless Steel non-wetted Carbon Steel
- 15 - Male NPT wetted parts Stainless Steel non-wetted Stainless Steel
- 16 - Female Type C Camlok wetted parts Carbon Steel non-wetted Carbon Steel
- 17 - Female Type C Camlok wetted parts Stainless Steel non-wetted Carbon Steel
- 18 - Female Type C Camlok wetted parts Stainless Steel non-wetted Stainless Steel
- 19 - Female Type C Camlok wetted parts Aluminum non-wetted Stainless Steel

#### Special Notes:

- a. For wetted parts coated with PTFE, add "P" after the end fitting code.
- b. If fitting end code is not shown above, please insert XX for first end and YY for second end and specify type and material.

Ordering Example:  
58TCLSST-32-03P-03P-480

#### Description:

- 58TC hose, SS316 internal wire, SS316 external wire, PTFE inner tubes, 2 inch hose ID
- 1st end fitting - Fixed flange ANSI 150, wetted parts PTFE coated stainless steel, non-wetted parts stainless steel
- 2nd end fitting - Fixed flange ANSI 150, wetted parts PTFE coated stainless steel, non-wetted parts stainless steel
- 480 inches in length

## Accessories



### ThorPro Hose Protector - Support & Bend Restrictor

ThorPro is designed to restrict the hose as to not exceed its minimum bend radius when handled. The rated capacity is up to 15000 lbs with a 5 to 1 safety factor.

Construction: Heavy Duty Poly-Urethane bend restrictor with UV resistant nylon sling to ease lifting.  
 Design Temperature: 200°F (93°C)  
 Sizes: 1' to 12"

PN: THPXX (XX=Size in 1/16 inch 16=1", 24=1.5", 32=2"... 192=12")



### ThorCart Hose Dolly

ThorCart is used to move THORFLEX hose assemblies with ease and is designed to tip sideways to simplify loading and unloading.

Construction: Heavy Duty Steel construction with swivel castors or pneumatic wheels  
 Load Capacity: 1600 lbs  
 Weight: 93 lbs

PN: THC-1600S - (With Swivel Castors)  
 PN: THC-1600P - (With Heavy duty Pneumatic Wheels)