



COMPOSITE HOSE ASSEMBLIES

Engineered Solutions For Pipe Motion

Canada 
www.thorburnflex.com

THORFLEX Polypropylene & PTFE Composite Hose Assemblies



Swage Fitting to End Joints

Flexible & Lightweight for Ease of Handling

Thorflex type PGP/SGP/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.

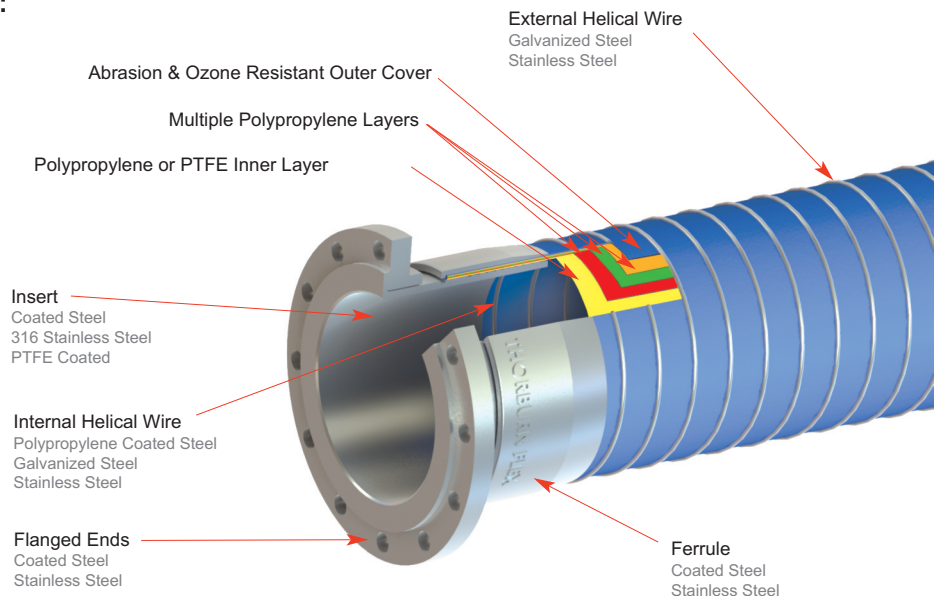
THORFLEX Composite Hose Construction

PGP/SGP/SSP - 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 SGP (Blue Cover)

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

THORFLEX TYPE PGP (Blue Cover)

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

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

Features:

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

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

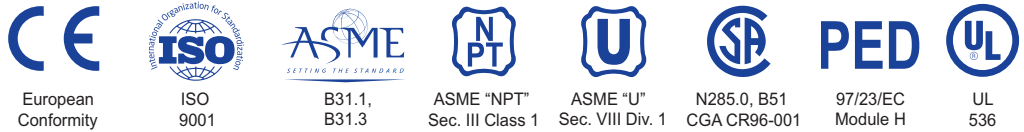
* XXX - Specify Hose Type | SSP, PGP, SST, or SGT

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

How to Order THORFLEX Composite Hose Assemblies



HOSE TYPE	HOSE SIZE ID	1ST END	2ND END	HOSE LENGTH (IN)	OPTIONS
58TCLSSP 58TCLSGP 58TCLPGP 58TCLSST 58TCLSGT 58TCHSSP 58TCHSGP 58TCHPGP 58TCHSST 58TCHSGT	16 = 1 24 = 1.5 32 = 2 40 = 2.5 48 = 3 64 = 4 96 = 6 128 = 8 160 = 10 192 = 12			Assembly length in inches For Millimeters specify suffix mm	Add suffix XX and specify

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

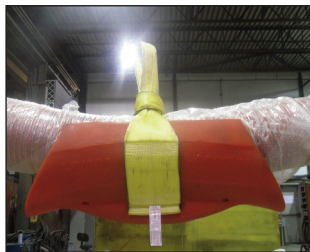
Special Notes:
 a. For wetted parts coated with PTFE, add "P" after the end fitting code.
 b. If fitting end code is not shown above, please insert XX for first end and YY for second end and specify type and material.

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)