

Eteha bv

Slangtechniek



Composite hose

Flextraco Manufacturer of Composite hoses

For the transfer of :

- Oil**
- Solvents**
- Liquid Chemicals**
- Acids**
- Cryogenic Products**
- Vapour**



Flextraco

Composite Hoses

Company Information

- Flextraco is specialized in the manufacturing and marketing of composite hoses and assemblies
- The factory and offices are located in The Netherlands, close to Rotterdam port.
- Eteha offers the most extensive composite hose range to the industry.
- The complete range of hoses and fittings are developed, manufactured and tested within the company and quality control is executed on management level

Product Information

Hose Construction

The hoses are constructed from polypropylene, polyamide or polyester films and fabrics, depending on the application and a outer cover of pvc coated polyester fabrics which is abrasion, weather and ozon resistant. For more demanding applications layers and/or tubes of PTFE and FEP* are used in the construction of the hoses.

*TEFLON-FEP is a Dupont trademark

Internal and External Wires

- A choice can be made between galvanized steel, polypropylene coated steel and stainless steel 316 internal wire, depending on the application.
- Standard Flextraco hoses have a galvanized external wire but all hoses can be manufactured with a stainless steel external wire as well.
- GS = Galvanized steel - SS3304 = Stainless steel 304

Electrical Continuity

A dual connection between the internal and external wires and en fittings guarantees electrical continuity

Safety

- All Flextraco hose assemblies are pressure tested at 1,5 times their rated working pressure before shipment.
- Test certificates are provided with all Heavy duty Marine hose as a standard.
- All Flextraco hoses are color coded for easy identification.

Temperatures

- Flextraco composite hoses are suitable for use in operating temperatures from
- $-30^{\circ}\text{C}/-22^{\circ}\text{F}$ to $+100^{\circ}\text{C}/+212^{\circ}\text{F}$, dependent on the conveyent.

Standards

- Flextraco composite hoses comply with various international standard including BS 5842 - BS 4069 - BS 3492 and US Coast Guard Regulations.
- Heavy duty Marine Hoses are type approved tp IMO codes

Vital Link

- The point of transfer is the most vulnerable link in the chain of production, distribution and use of bulk hydrocarbons, chemicals and liquefied gases. The flexible link from one bulk container to another must be reliable, easy to manoeuvre, resistant to internal and external wear and suitable for whatever product is being moved, however hazardous.
- For over many years the vital link has been provided by Flextraco flexible composite hoses, which are now produced to the highest standards by Flextraco.

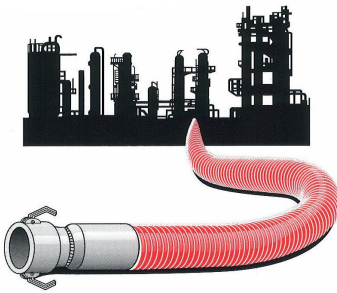


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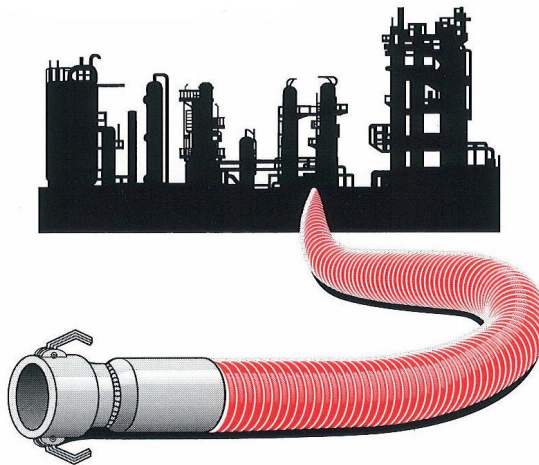
*All information in this brochure was correct at time of publication.
We reserve the right to make alternations from time to time without notice*



STANDARD DUTY COMPOSITE HOSE

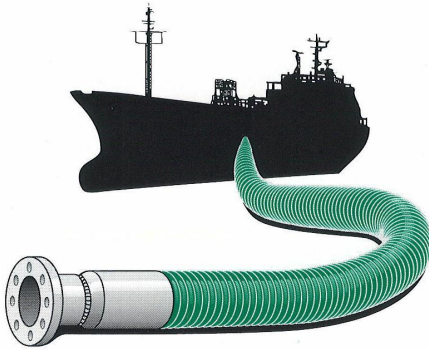
- Recommended for use as a tanktruck, railcar and in-plant transferhose.
- Complies with BS 5842
- Stainless steel outer wire on request
- Safety factor 5 : 1

Part-no	Service	Inner /outer wire	Tube	Cover colour
0804-GGP	Oil / Solvents	Galvanized steel / GS	Polypropylene	Blue
0416-PGP	Chemical	Polypropylene coated / GS	Polypropylene	Black
0414-SGP	Chemical	Stainless steel 316 / GS	Polypropylene	Green
0414-SSP	Chemical	Stainless steel 316 / SS304	Polypropylene	Green
0424-SGF	Chemical	Stainless steel 316 / GS	PTFE	Red
0424-SSF	Chemical	Stainless steel 316 / SS304	PTFE	Red



Technical data - Standard duty (safety factor 5 : 1)

Inside diameter		Workingpressure		Minimum bendradius		Approx. Weight		Maximum length	
Inch	mm	PSI	Bar	Inch	mm	Lbs/ft	Kg/m	Ft	Mtr
1	025	150	10	4	100	0.65	1.00	65	20
1.1/4	032	150	10	4.3/4	120	0.75	1.12	65	20
1.1/2	038	150	10	5.1/4	130	0.85	1.25	65	20
2	050	150	10	6.1/2	165	1.20	1.80	65	20
2.1/2	065	150	10	7.1/2	185	1.70	2.50	65	20
3	080	150	10	9.1/2	240	2.00	3.00	65	20
4	100	150	10	14.1/2	360	3.00	4.50	65	20



HEAVY DUTY COMPOSITE HOSE

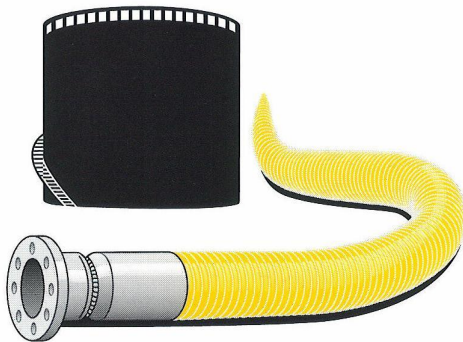
- Recommended for heavy duty Marine operations including ship and barge loading and unloading.
- Type approved as complying with PAR. 2,1.2 and 5.7 of the IMO code.
- Complies with BS 5842
- Stainless steel outer wire on request
- Safety factor 5 : 1

Part-no	Service	Inner wire	Tube	Cover colour
0824-GGP	Oil / Solvents	Galvanized steel / GS	Polypropylene	Blue
0436-PGP	Chemical	Polypropylene coated / GS.	Polypropylene	Black
0434-SGP	Chemical	Stainless steel 316 / GS	Polypropylene	Green
0434-SSP	Chemical	Stainless steel 316 / SS304	Polypropylene	Green
0444-SGF	Chemical	Stainless steel 316 / GS	PTFE	Red
0454-SSF	Chemical	Stainless Steel 316 / SS304	PTFE	Red
0454-SSH	Chemical	Stainless Steel 316 / SS304	Hostaflon	Red



Technical data - Heavy duty (safety factor 5 : 1)

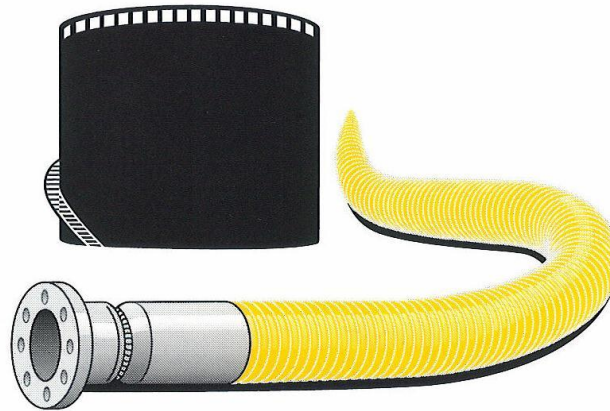
Inside diameter		Workingpressure		Minimum bendradius		Approx. Weight		Maximum length	
Inch	mm	PSI	Bar	Inch	mm	Lbs/ft	Kg/m	Ft	Mtr
3	75	200	14	11	280	2.50	3.70	65	20
4	102	200	14	16	400	4.40	6.50	65	20
5	125	200	14	18	460	5.80	8.60	65	20
6	152	200	14	20	500	7.00	10.50	65	20
8	204	200	14	29	740	12.00	18.00	65	20
10	254	150	10	36	920	15.00	23.00	65	20



VAPOUR RECOVERY COMPOSITE HOSE

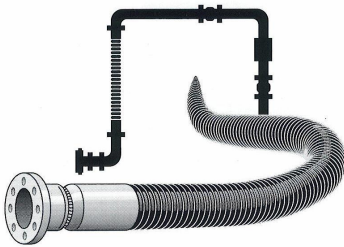
- Recommended for vapour recovery systems in tank-truck, bottom loading, inplant and ship to shore applications.
- Complies with USGG Marine vapour control systems 33 CFR PART 154.810
- Stainless steel outer wire on request
- Safety factor 5 : 1

Part-no	Service	Inner wire	Tube	Cover colour
0864-GGP	Vapour recovery	Galvanized steel / GS	Polypropylene	Yellow
0466-PGP	Vapour recovery	Polypropylene coated / GS	Polypropylene	Yellow
0464-SGP	Vapour recovery	Stainless steel 316 / GS	Polypropylene	Yellow
0464-SSP	Vapour recovery	Stainless steel 316 / SS304	Polypropylene	Yellow
0446-SGF	Vapour recovery	Stainless steel 316 / GS	PTFE	Yellow
0446-SSF	Vapour recovery	Stainless steel 316 / SS304	PTFE	Yellow



Technical data - Vapour recovery (safety factor 4 : 1)

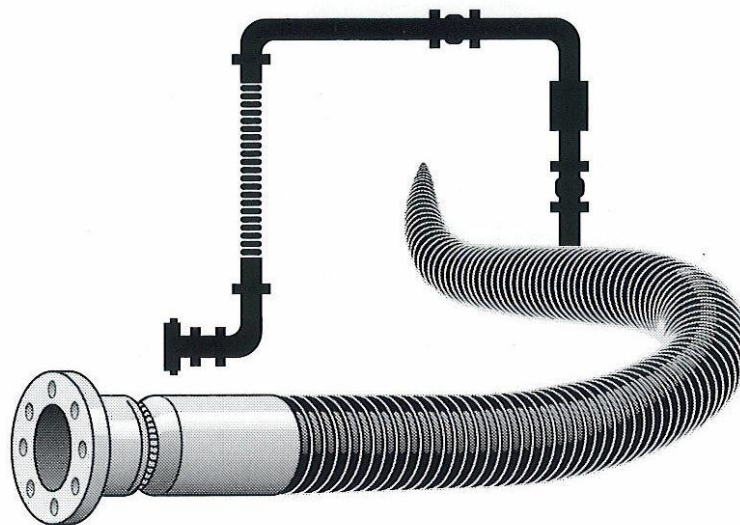
Inside diameter		Workingpressure		Minimum bendradius		Approx. Weight		Maximum length	
Inch	mm	PSI	Bar	Inch	mm	Lbs/ft	Kg/m	Ft	Mtr
2	50	100	7	5	125	1.00	1.50	65	20
3	75	100	7	7	175	1.75	2.60	65	20
4	102	100	7	11	275	2.55	3.80	65	20
5	125	100	7	14	360	3.05	4.50	65	20
6	152	100	7	16	410	3.60	5.30	65	20
8	204	100	7	22	560	8.05	11.90	65	20
10	254	100	7	30	760	10.35	15.30	50	15



BOTTOM LOADING COMPOSITE HOSE

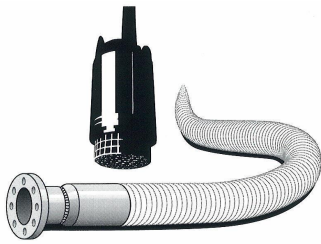
- Recommended for use with bottom loading installations
- Special reinforcement for minimal elongation.
- Stainless steel outer wire on request
- Safety factor 5 : 1

Part-no	Service	Inner wire	Tube	Cover colour
0104-GGP	Bottom loading	Galvanized steel / GS	Polypropylene	Any colour on request
0116-PGP	Bottom loading	Polypropylene coated / GS	Polypropylene	
0114-SGP	Bottom loading	Stainless steel 316 / GS	Polypropylene	
0124-SGF	Bottom loading	Stainless steel 316 / GS	PTFE	



Technical data - Bottom loading (safety factor 5 : 1)

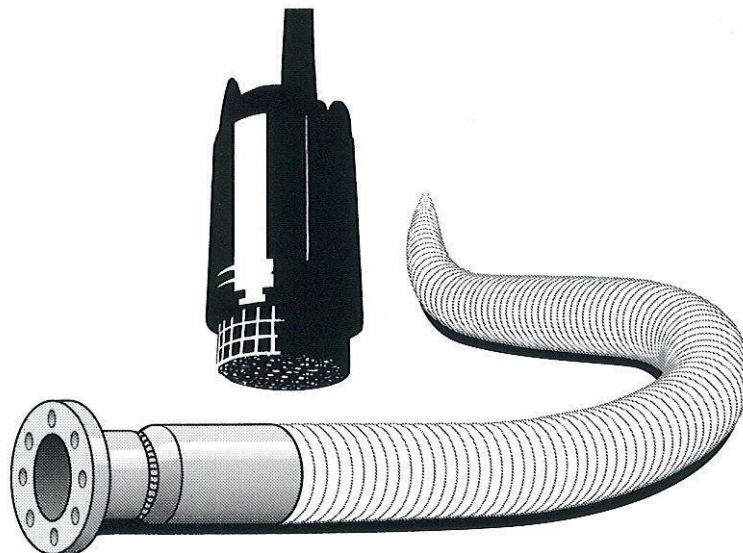
Inside diameter		Workingpressure		Minimum bendradius		Approx. Weight		Maximum length	
Inch	mm	PSI	Bar	Inch	mm	Lbs/ft	Kg/m	Ft	Mtr
3	080	150	10	9.1/2	240	2.20	3.25	65	20
4	100	150	10	14.1/2	360	3.40	5.10	65	20



SUBMERSIBLE COMPOSITE HOSE

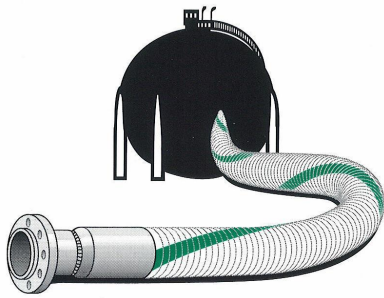
- Recommended for use with submersible pumps and for all other applications where the hose is exposed to the product, both inside and outside.
- Safety factor 5 : 1

Part-no	Service	Inner wire	Tube	Cover colour
0904-GGP	Submersible	Galvanized steel / GS	Polypropylene	White
0916-PGP	Submersible	Polypropylene coated / GS	Polypropylene	White
0914-SGP	Submersible	Stainless steel 316 / GS	Polypropylene	White
0924-SGF	Submersible	Stainless steel 316 / GS	PTFE	White



Technical data - Submersible (safety factor 5 : 1)

Inside diameter		Workingpressure		Minimum bendradius		Approx. Weight		Maximum length	
Inch	mm	PSI	Bar	Inch	mm	Lbs/ft	Kg/m	Ft	Mtr
1.1/2	38	200	14	4.1/2	112	0.85	1.25	65	20
2	50	200	14	5.1/2	140	1.35	2.00	65	20
2.1/2	63	200	14	6.1/2	165	1.75	2.60	65	20
3	75	200	14	9	230	2.50	3.70	65	20
4	102	200	14	15	380	4.40	6.50	65	20
5	125	200	14	17	435	5.80	8.60	65	20
6	152	200	14	18	460	7.00	10.50	65	20
8	204	200	14	27	690	12.00	18.00	65	20



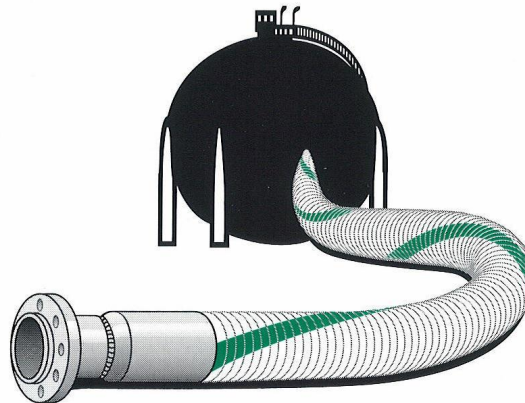
CRYOGENIC COMPOSITE HOSE

- Recommended for fully refrigerated conveyants down to -50°C (-58°F) in road, railroad, inplant and ship to shore.
- Complies with BS 4089
- Rope lagging on request

Ammonia	Acetaldehyde	Butadiene	Butane/Propane	Butane
Butylene	Butylene	Dimethylamine	Ethylamine	Ethylchloride
Methyl Acetylene	Methyl Bromide	Propane	Propadien	Vinyl Chloride
Propylene				

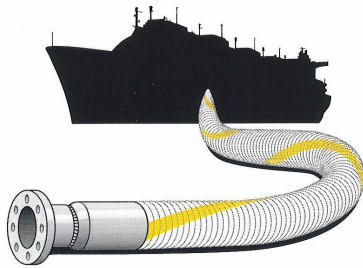
Also suitable for:
 Liquid Ethylene at -105°C (-157°F)
 Liquid Ethane at -88° (-126°F)

Part-no	Service	Inner wire	Tube	Cover colour
0050-SS	Cryogenic	Stainless Steel 316 / SS304	Polyamide	White



Technical data - Cryogenic (safety factor 5 : 1)

Inside diameter		Workingpressure		Minimum bendradius		Approx. Weight		Maximum length	
Inch	mm	PSI	Bar	Inch	mm	Lbs/ft	Kg/m	Ft	Mtr
1.1/2	38	350	25	7	175	1.10	1.50	65	20
2	50	350	25	7.1/2	185	1.55	2.30	65	20
2.1/2	63	350	25	9.1/2	240	2.15	3.20	65	20
3	75	350	25	11	280	2.95	4.40	65	20
4	102	300	21	20	500	4.95	7.30	65	20
5	125	300	21	24	610	7.75	11.50	65	20
6	152	300	21	26	660	9.45	14.00	65	20
8	204	200	14	37	940	12.75	18.90	65	20
10	254	150	10	75	1905	15.00	23.00	50	15

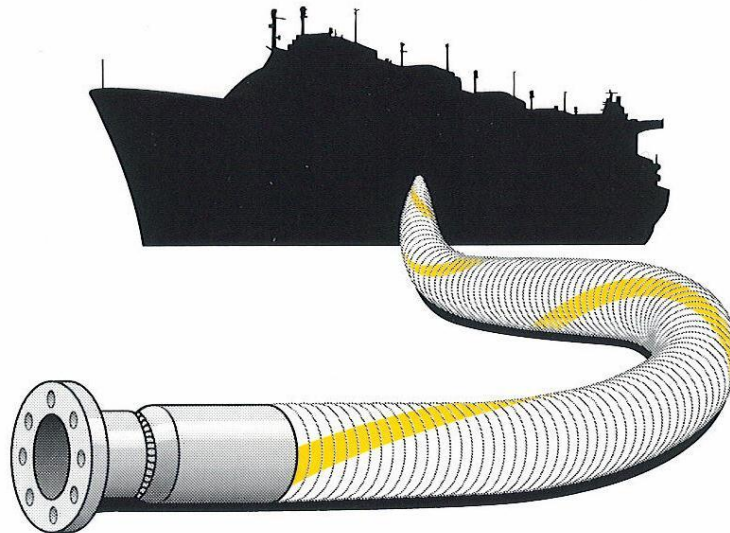


CRYOGENIC COMPOSITE HOSE

- Recommended for fully refrigerated conveyants down to – 200°C (-328°F) such as liquid Nitrogene and L.N.G. in road, railroad, inplant and ship to shore applications
- Complies with BS 4089
- Safety factor 5 : 1

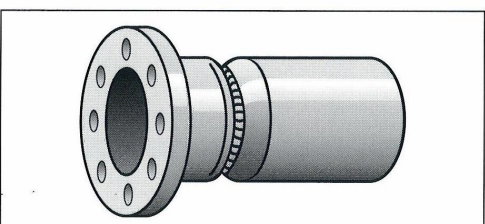
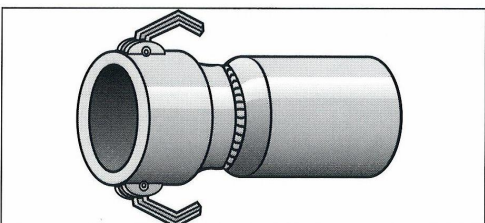
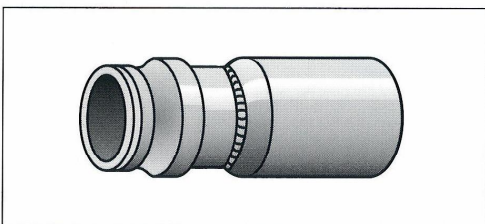
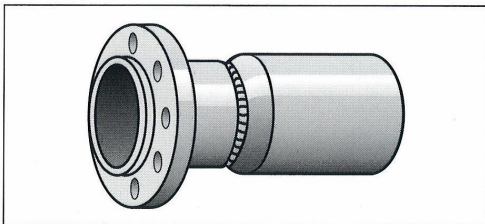
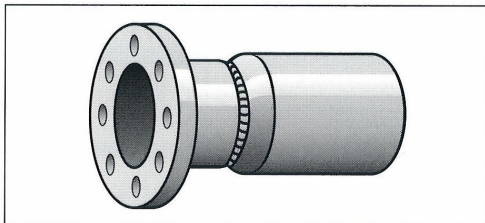
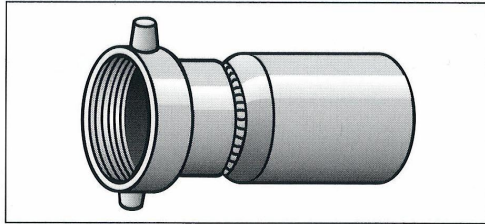
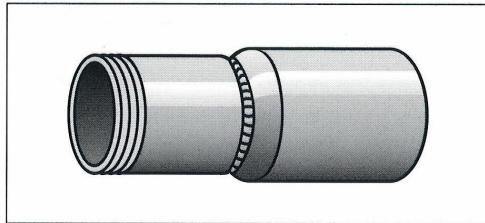
Type approved as complying with PAR. 5.7 and 5.4 of the IMO OGC code for ships carrying liquified gases in bulk

Part-no	Service	Inner wire	Tube	Cover colour
0200-SS	Cryogenic	Stainless Steel 316 /SS304	Polyester	White



Technical data - Cryogenic (safety factor 5 : 1)

Inside diameter		Workingpressure		Minimum bendradius		Approx. Weight		Maximum length	
Inch	mm	PSI	Bar	Inch	mm	Lbs/ft	Kg/m	Ft	Mtr
1	25	150	10	6	150	0.60	0.90	65	20
1.1/2	38	150	10	7	175	0.80	1.20	65	20
2	50	150	10	7.1/2	185	1.55	2.30	65	20
3	75	150	10	11	280	2.95	4.40	65	20
4	102	150	10	20	500	4.95	7.30	65	20
5	125	150	10	24	610	7.75	11.50	65	20
6	152	150	10	26	660	9.45	14.00	65	20
8	204	150	10	37	940	12.75	18.90	65	20
10	254	150	10	75	1905	15.00	23.00	50	15



END FITTINGS

Sizes : 1 to 10 inch

Materials : Carbon Steel
Stainless Steel
Aluminium
Brass
Polypropylene

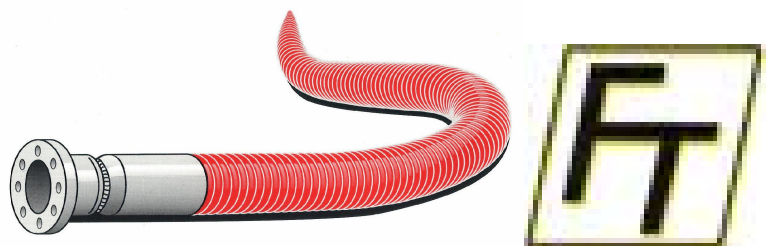
Threads : BSP
NPT

Flanges : DIN
ASA
JIS

Attachment : Carbon Steel or
Stainless Steel
Ferrules.

Externally swaged onto the hose.

Fittings in other materials, combinations or to customers specifications available on request



Eteha bv

Slangtechniek



Composite hose

Flextraco Manufacturer of Composite hoses



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