

Easyflex® Convoluted PTFE Hose

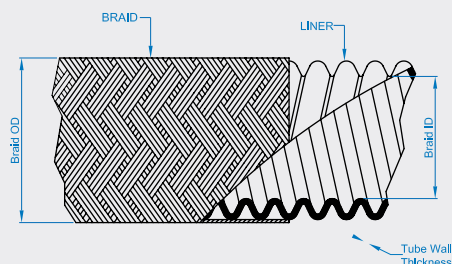
Fluid Transfer Systems

Product Description

Originally designed for easy assembly by re-sellers looking to extend their product portfolio. Easyflex® has a 'true' I/D and eliminates the need to de-convolute the hose when using standard hydraulic inserts. Used in applications where constant flexing, high temperatures or chemical resistance is paramount the Easyflex® hose offers a cost effective solution over the full life of the hose.

T1794 – Helically convoluted tube wall, non-conductive virgin PTFE tubing, over braided with 300 series stainless steel wire.

T1809 – Helically convoluted tube wall, conductive lined, virgin PTFE tubing, over braided with 300 series stainless steel wire.



Properties

Application	Used globally in low to medium pressure premium applications that require more flexibility or tighter bend radius whilst still requiring the high temperature and impeccable chemical resistance of the standard PTFE hose
Design	Helically convoluted PTFE tube with high tensile SS 304 braid
Inner layer	Helically convoluted PTFE tube
Outer layer	High tensile 304 maypole wound Stainless Steel braid
Temperature Min	-60°C
Temperature Max	+260°C
Material	PTFE according to "ISO12086, Part1. PTFE-E.P.D.M 1.61.C.E.4_12"

T1794 – Helically convoluted tube wall, over braided with 300 series stainless steel wire.

T1809 – Helically convoluted tube wall, conductive lined, virgin PTFE tubing, over braided with 300 series stainless steel wire.

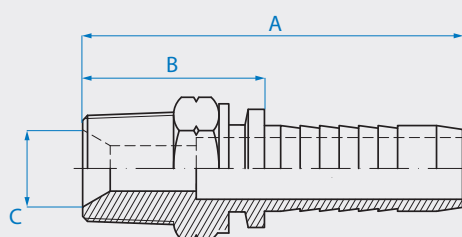
Virgin Part Number	Conductive Part Number	Hose Size	Inside Diameter	Outside Diameter	Operating Pressure PSI	Burst Pressure PSI	Bend Radius (Inches)
T1794-04	T1809-04	1/4	.25	.484	2,500	7,500	0.7
T1794-06	T1809-06	3/8	.375	.600	2,000	6,000	0.8
T1794-08	T1809-08	1/2	.500	.740	1,500	4,500	1
T1794-10	T1809-10	5/8	.625	.870	1,200	3,600	2
T1794-12	T1809-12	3/4	.750	.970	1,000	3,000	2.5
T1794-16	T1809-16	1	1	1.29	670	2,000	3.5
T1794-20	T1809-20	1-1/4	1.25	1.603	500	1,500	5
T1794-24	T1809-24	1-1/2	1.5	1.90	440	1,300	6
T1794-32	T1809-32	2	2	2.421	335	1,000	7.5

Easyflex® Convoluted PTFE Hose

FITTING KITS

Fittings for convoluted hoses are available in a wide variety of configurations and material options. The positive lock design is uniquely engineered to accommodate both swaging and crimping with no duplication of inventory. The collar-to-insert lock insures a leak-proof seal on the hose. Male pipe

fittings and female swivel inserts are available in carbon steel and type 316 stainless steel. Collars are 316 stainless steel.

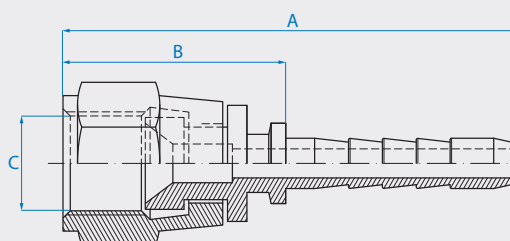


316 Stainless Male NPT – 2 Piece

Part Number	Hose Size	Thread	A Overall Length (Inches)	B Deduct Length (Inches)	C Nominal ID (Inches)
154008	-08	1/2"-14	2.70	1.52	0.4
154012	-12	3/4"-14	2.70	1.65	0.63
154016	-16	1"-11-1/2	2.90	1.85	0.85
154020	-20	1-1/4"-11 1/2	3.50	2.04	1.07
154024	-24	1-1/2" -11 1/2	3.70	2.13	1.31
154032	-32	2"-11 1/2	3.90	2.35	1.76

Carbon Male NPT – 2 Piece (W/316ss Crimp Ferrule)

Part Number	Hose Size	Thread	A Overall Length (Inches)	B Deduct Length (Inches)	C Nominal ID (Inches)
124008	-08	1/2"-14	2.70	1.52	0.4
124012	-12	3/4"-14	2.70	1.65	0.63
124016	-16	1"-11-1/2	2.90	1.85	0.85
124020	-20	1-1/4"-11 1/2	3.50	2.04	1.07
124024	-24	1-1/2" -11 1/2	3.70	2.13	1.31
124032	-32	2"-11 1/2	3.90	2.35	1.76



316 Stainless FJIC – 4 Piece

Part Number	Hose Size	Thread	A Overall Length (Inches)	B Deduct Length (Inches)	C Nominal ID (Inches)
154208	-08	3/4"-16	2.60	1.04	0.4
154212	-12	1 1/16"-12	2.80	1.22	0.63
154216	-16	1 5/16"-12	3.00	1.27	0.85
154220	-20	1 5/8"-12	3.60	1.45	1.07
154224	-24	1 7/8"-12	3.80	1.50	1.31
154232	-32	2 1/2"-12	4.10	1.67	1.76

Carbon FJIC – 4 Piece (W/316ss Crimp Ferrule)

Part Number	Hose Size	Thread	A Overall Length (Inches)	B Deduct Length (Inches)	C Nominal ID (Inches)
124208	-08	3/4"-16	2.60	1.04	0.4
124212	-12	1 1/16"-12	2.80	1.22	0.63
124216	-16	1 5/16"-12	3.00	1.27	0.85
124220	-20	1 5/8"-12	3.60	1.45	1.07
124224	-24	1 7/8"-12	3.80	1.50	1.31
124232	-32	2 1/2"-12	4.10	1.67	1.76

FLUID TRANSFER SYSTEMS

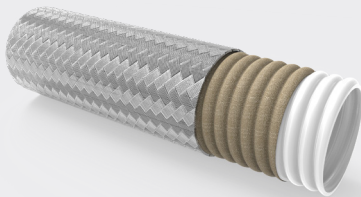
DNV GL Range

Product Description

Flame resistant convoluted multilayer PTFE hose with fibreglass covering and wire braid reinforcement for use on demanding marine and offshore applications.

The convoluted profile ensures easier crimping of the hose and with the approved **DNV GL** fitting and ferrule range now offers a proven minimum 150K impulse cycle life expectancy at elevated temperatures. The new convoluted profile offers improved vacuum resistance where negative pressures may be detrimental to the life cycle of the hose assembly. The helically convoluted design allows for easier draining when compared to other non-PTFE hose types whilst also giving a smaller bending radius allowing the fitment of the product in tighter confines.

Available in both virgin PTFE and carbon lined anti-static versions allowing the transfer of all common fluids and gasses used in marine and offshore applications.



Properties

Application	Accepted for installation on all vessels classed by DNV GL.
Design	3/8" - 2" Flame resistant PTFE helical convoluted lined hoses. Convoluted multilayer PTFE hose with fibreglass covering and wire braid reinforcement
Inner layer	Virgin & anti-static inner layer with a PTFE impregnated Fibreglass cover
Outer layer	304 or 316 Stainless steel Braid
Temperature Min/Max	-50°C / +150°C
Material	PTFE BS2782 Method 327A:1993 ASTM-D 882
Certification	DNV GL class programme CP-0183 - Type Approval of flexible hoses of non-metallic material

DNV GL Convoluted Range

Part Number	Description	ID Nominal		OD Nominal		Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius		Vacuum	
		(mm)	(in)	(mm)	(in)	(bar)	(psi)	(bar)	(psi)	(mm)	(in)	(bar)	(inHG)
T1588-06	3/8" DNV GL	9.65	0.380	15.80	0.622	125	1813	500	725	50	1.97	0,9	26,58
T1588-08	1/2" DNV GL	13.45	0.530	19.80	0.780	105	1523	420	609	65	2.56	0,9	26,58
T1588-10	5/8" DNV GL	16.40	0.646	23.40	0.921	100	1450	400	580	80	3.15	0,9	26,58
T1588-12	3/4" DNV GL	19.80	0.780	26.90	1.059	90	1305	360	522	100	3.94	0,9	26,58
T1588-16	1" DNV GL	25.00	0.984	32.90	1.295	80	1160	320	464	125	4.92	0,9	26,58
T1588-20	1 1/4" DNV GL	32.30	1.272	39.75	1.565	64	928	256	371	150	5.91	0,9	26,58
T1588-24	1 1/2" DNV GL	38.30	1.508	46.10	1.815	53	769	212	307	200	7.87	0,9	26,58
T1588-32	2" DNV GL	51.50	2.028	60.50	2.382	35	508	140	203	250	9.84	0,5	14,77
T1589-06	3/8" DNV GL Antistatic	9.65	0.380	15.80	0.622	125	1813	500	725	50	1.97	0,9	26,58
T1589-08	1/2" DNV GL Antistatic	13.45	0.530	19.80	0.780	105	1523	420	609	65	2.56	0,9	26,58
T1589-10	5/8" DNV GL Antistatic	16.40	0.646	23.40	0.921	100	1450	400	580	80	3.15	0,9	26,58
T1589-12	3/4" DNV GL Antistatic	19.80	0.780	26.90	1.059	90	1305	360	522	100	3.94	0,9	26,58
T1589-16	1" DNV GL Antistatic	25.00	0.984	32.90	1.295	80	1160	320	464	125	4.92	0,9	26,58
T1589-20	1 1/4" DNV GL Antistatic	32.30	1.272	39.75	1.565	64	928	256	386	150	5.91	0,9	26,58
T1589-24	1 1/2" DNV GL Antistatic	38.30	1.508	46.10	1.815	53	769	212	307	200	7.87	0,9	26,58
T1589-32	2" DNV GL Antistatic	51.50	2.028	60.50	2.382	35	508	140	203	250	9.84	0,5	14,77

Available as bespoke made assemblies from Kongsberg Automotive to exacting DNV GL standard.
Enquire via the sales team for your requirements.



► Convo-Flex®

Convo-Flex® Virgin-TCMV

Convo-Flex® Anti-Static-TCMF

- Convo-Flex® tube is helically convoluted and therefore is self draining. It offers easy cleaning, good flexibility and vacuum resistance.
- Convo-Flex® is available in a choice of virgin (TCMV) or anti-static (TCMF) liners.
- Having a generally heavier wall than its Easy-Flex® cousin, the Convo-Flex® range is more suited to use in more arduous applications throughout the process plant industry, including suction duties.

- Convo-Flex® can be assembled with a variety of overbraid materials (including stainless steel and polypropylene). Contact our Sales Office for further details.
- Convo-Flex® can be supplied with an integral stainless steel reinforcement wire following the convolutions of the hose. The wire provides greater kink resistance, general mechanical strength, and increased security on vacuum applications at elevated temperatures.

Convo-Flex® Range

USA Part Number	Part Number	Description	Tube Wall Thickness Nom.		Convo OD Nominal		Tolerance +/-		Convo ID Nominal		Tolerance +/-		Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	
			(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(psi)	(bar)	(psi)	(bar)	(mm)	(in)
TCMV7.1BT	TCMV7.1BT	1/4" Convo-Flex	0.76	0.030	11.68	0.460	0.75	0.030	7.00	0.276	0.75	0.030	58	4.0	203	14.0	18	0.709
TCMV9.5BT	TCMV9.5BT	3/8" Convo-Flex	0.76	0.030	14.95	0.589	0.75	0.030	9.65	0.380	0.75	0.030	58	4.0	203	14.0	20	0.787
TCMV12.8BT	TCMV12.8BT	1/2" Convo-Flex	0.89	0.035	17.90	0.705	0.75	0.030	13.08	0.515	0.75	0.030	58	4.0	203	14.0	25	0.984
TCMV16.0BT	TCMV16.0BT	5/8" Convo-Flex	0.89	0.035	21.85	0.860	0.75	0.030	16.00	0.630	0.75	0.030	44	3.0	160	11.0	30	1.181
TCMV18.6BT	TCMV18.6BT	3/4" Convo-Flex	1.00	0.039	26.40	1.039	1.00	0.039	19.00	0.748	1.00	0.039	44	3.0	160	11.0	50	1.969
TCMV24.8BT	TCMV24.8BT	1" Convo-Flex	1.20	0.047	35.00	1.378	1.25	0.049	25.40	1.000	1.25	0.049	44	3.0	145	10.0	60	2.362
TCMV32.0BT	TCMV32.0BT	1 1/4" Convo-Flex	1.20	0.047	41.00	1.614	1.25	0.049	31.00	1.220	1.25	0.049	36	2.5	131	9.0	80	3.150
TCMV35.5BT	TCMV35.5BT	1 1/2" Convo-Flex	1.60	0.063	45.00	1.772	1.50	0.059	35.50	1.398	1.50	0.059	36	2.5	131	9.0	100	3.937
TCMV45.0BT	TCMV45.0BT	1 3/4" Convo-Flex	1.60	0.063	55.00	2.165	1.75	0.069	44.00	1.732	1.75	0.069	29	2.0	116	8.0	120	4.724
TCMV47.5BT	TCMV47.5BT	2" Convo-Flex	1.60	0.063	59.50	2.343	2.00	0.079	47.50	1.870	2.00	0.079	29	2.0	116	8.0	125	4.921
TCMV65.0BT	TCMV65.0BT	2 1/2" Convo-Flex	1.60	0.063	76.25	3.002	2.50	0.098	60.25	2.372	2.50	0.098	22	1.5	87	6.0	150	5.906
TCMV80.0BT	TCMV80.0BT	3" Convo-Flex	1.60	0.063	92.00	3.622	3.00	0.118	74.00	2.913	3.00	0.118	19	1.3	73	5.0	260	10.236
TCMV100.0BT	TCMV100.0BT	4" Convo-Flex	1.82	0.072	121.30	4.776	4.00	0.157	98.00	3.858	4.00	0.157	15	1.0	65	4.5	400	15.748

