

MARINE HOSES
FLOATING & SUBMARINE

Flexomarine

RT REINFORCED SINGLE CARCASS 19 bar 1000 Series **Reeling Hose**

RT SINGLE CARCASS 19 bar
1000 Series



1710F RT

Flexomarine half floating hose with one reinforced end (first off FPSO)



1720F RT

Flexomarine integral full-floating hose for mainline



1730F RT

Flexomarine integral full-floating hose with built-in reducer



1740F RT

Flexomarine integral full-floating hose for tail



1752F RT

Flexomarine integral full-floating tanker end hose (Jumbo)



1770BCRT

Flexomarine integral buoyancy control hose
Designed upon request



1731S RT

Flexomarine submarine hose with one reinforced end for connection to the FPSO (First-Off FPSO).



1732S RT

Flexomarine standard mainline submarine hose



1735S RT

Flexomarine submarine hose for tanker end

RT REINFORCED SINGLE CARCASS HOSE

RT REINFORCED SINGLE CARCASS 19 bar 1000 Series **Reeling Hose**

Type 1731 S RT **One Reinforced End Hose**



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1	D2	D3	D4	Submerged Weight Full of Sea Water (kg)			
					9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
300 (12")	660	460	440	650	1542 595	1762 670	1968 740	1.2
400 (16")	760	565	550	750	2091 840	2385 942	2661 1038	1.6
500 (20")	860	665	650	850	2719 1122	3101 1259	3460 1388	2.0
600 (24")	910	795	765	890	3665 1520	4192 1713	4687 1893	2.4

- Single Carcass Hose FLEXOMARINE One Reinforced End Submarine Hose to be used on FPSO connections
- Rated Working Pressure: 19 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

RT REINFORCED SINGLE CARCASS 19 bar 1000 Series **Reeling Hose**

Type 1732 S RT **Mainline Hose**



Nominal Bore (mm)	Outside Diameter (mm)		Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	D2 End	Submerged Weight Full of Sea Water (kg)			
			9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
300 (12")	440	650	1369 489	1549 536	1718 579	1.2
400 (16")	550	750	1886 707	2131 772	2362 834	1.6
500 (20")	650	850	2477 955	2801 1044	3106 1128	2.0
600 (24")	765	890	3377 1302	3835 1433	4265 1556	2.4

- Single Carcass Hose FLEXOMARINE Mainline Submarine Hose for use as the main submarine hose in the string to connect between reel and Tanker on reeling systems
- Rated Working Pressure: 19 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

RT REINFORCED SINGLE CARCASS 19 bar 1000 Series **Reeling Hose**

Type 1735 S RT **Tanker End Hose**



Nominal Bore (mm)	Outside Diameter (mm)		Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 End	D2 Body	Submerged Weight Full of Sea Water (kg)			
			9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
300 (12")	440	650	1378 498	1558 544	1726 588	1.2
400 (16")	550	750	1896 717	2142 783	2372 844	1.6
500 (20")	650	850	2490 967	2814 1057	3118 1141	2.0
600 (24")	765	890	3444 1315	3912 1448	4350 1572	2.4

- Single Carcass Hose FLEXOMARINE Tanker End Submarine Hose for use to facilitate lifting up the string
- Identified by a double circumferencial white bands at the tanker end
- This hose is extremely flexible to support the curvature demanded during offloading
- In the hose fittings are welded lifting lugs
- Each lug are tested to support Safe Working Loads as follow:
12" = 100 kN 16" = 150 kN 20" = 200 kN
- Rated Working Pressure: 19 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

MARINE HOSES
FLOATING & SUBMARINE

Flexomarine

RT REINFORCED SINGLE CARCASS 21 bar 1000 Series **Reeling Hose**



1810F RT

Flexomarine half floating hose with one reinforced end (first off FPSO)



1820F RT

Flexomarine integral full-floating hose for mainline



1830F RT

Flexomarine integral full-floating hose with built-in reducer



1840F RT

Flexomarine integral full-floating hose for tail



1852F RT

Flexomarine integral full-floating tanker end hose (Jumbo)



1870BCRT

Flexomarine integral buoyancy control hose
Designed upon request



1831S RT

Flexomarine submarine hose with one reinforced end for connection to the FPSO (First-Off FPSO).



1832S RT

Flexomarine standard mainline submarine hose



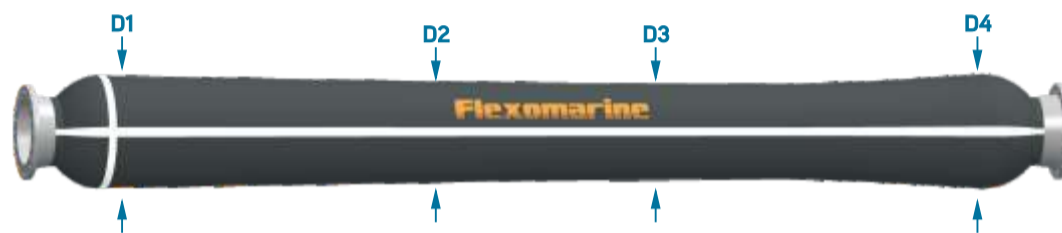
1835S RT

Flexomarine submarine hose for tanker end

RT SINGLE CARCASS 21 bar
1000 Series

RT REINFORCED SINGLE CARCASS 21 bar 1000 Series **Reeling Hose**

Type 1831 S RT **One Reinforced End Hose**



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1	D2	D3	D4	Submerged Weight Full of Sea Water (kg)			
					9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
300 (12")	660	460	440	650	1550 598	1771 673	1978 744	1.2
400 (16")	760	565	550	750	2101 844	2397 947	2674 1043	1.6
500 (20")	860	665	650	850	2732 1128	3117 1266	3477 1395	2.0
600 (24")	910	795	765	890	3683 1528	4213 1721	4710 1903	2.4

- Single Carcass Hose FLEXOMARINE One Reinforced End Submarine Hose to be used on FPSO connections
- Rated Working Pressure: 21 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

RT REINFORCED SINGLE CARCASS 21 bar 1000 Series **Reeling Hose**

Type 1832 S RT **Mainline Hose**



Nominal Bore (mm)	Outside Diameter (mm)		Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	D2 End	Submerged Weight Full of Sea Water (kg)			
			9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
300 (12")	440	650	1376 492	1557 538	1726 582	1.2
400 (16")	550	750	1895 710	2142 776	2374 838	1.6
500 (20")	650	850	2489 960	2815 1050	3121 1134	2.0
600 (24")	765	890	3394 1309	3854 1440	4286 1564	2.4

- Single Carcass Hose FLEXOMARINE Mainline Submarine Hose for use as the main submarine hose in the string to be connected between reel and the Tanker on reeling systems
- Rated Working Pressure: 21 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

RT REINFORCED SINGLE CARCASS 21 bar 1000 Series **Reeling Hose**

Type 1835 S RT **Tanker End Hose**



Nominal Bore (mm)	Outside Diameter (mm)		Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 End	D2 Body	Submerged Weight Full of Sea Water (kg)			
			9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
300 (12")	440	650	1385 501	1566 547	1735 591	1.2
400 (16")	550	750	1906 721	2153 787	2384 848	1.6
500 (20")	650	850	2502 972	2828 1062	3134 1146	2.0
600 (24")	765	890	3461 1322	3931 1455	4372 1580	2.4

- Single Carcass Hose FLEXOMARINE Tanker End Submarine Hose for use to facilitate lifting up the string
- Identified by a double circumferencial white bands at the tanker end
- This hose is extremely flexible to support the curvature demanded during offloading
- In the hose fittings are welded lifting lugs
- Each lug are tested to support Safe Working Loads as follow:
12" = 100 kN 16" = 150 kN 20" = 200 kN
- Rated Working Pressure: 21 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

MARINE HOSES
FLOATING & SUBMARINE

Flexomarine

RT DOUBLE CARCASS 15 bar 7000 Series

Reeling Hose



7610F RT

Flexomarine half floating hose with one reinforced end (first off FPSO)



7620F RT

Flexomarine integral full-floating hose for mainline



7630F RT

Flexomarine integral full-floating hose with built-in reducer



7640F RT

Flexomarine integral full-floating hose for tail



7652F RT

Flexomarine integral full-floating tanker end hose (Jumbo)



7670BCRT

Flexomarine integral buoyancy control hose
 Designed upon request



7631S RT

Flexomarine submarine hose with one reinforced end for connection to the FPSO (First-Off FPSO).



7632S RT

Flexomarine standard mainline submarine hose



7635S RT

Flexomarine submarine hose for tanker end

RT DOUBLE CARCASS 15 bar
 7000 Series

RT DOUBLE CARCASS HOSE

RT DOUBLE CARCASS 15 bar 7000 Series

Reeling Hose

Type 7631 S RT **One Reinforced End Hose**

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1	D2	D3	D4	Submerged Weight Full of Sea Water (kg)			
					9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
300 (12")	710	505	480	700	1890 595	2140 638	2374 679	1.2
400 (16")	810	595	570	800	2494 854	2819 917	3123 976	1.6
500 (20")	920	710	685	900	3164 1100	3587 1190	3984 1275	2.0
600 (24")	1070	840	820	1050	4350 1527	4951 1663	5514 1791	2.4

- Double Carcass Hose FLEXOMARINE SAFE One Reinforced End Submarine Hose to be used on FPSO connections
- Rated Working Pressure: 15 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

Type 7632 S RT **Mainline Hose**

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)		Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	D2 End	Submerged Weight Full of Sea Water (kg)	9.1m (30ft)	10.7m (35ft)	
300 (12")	480	700	1784 568	2009 602	2220 635	1.2
400 (16")	570	800	2368 813	2663 862	2940 909	1.6
500 (20")	685	900	3014 1036	3403 1105	3767 1171	2.0
600 (24")	820	1050	4167 1432	4726 1539	5249 1639	2.4

- Double Carcass Hose FLEXOMARINE SAFE Mainline Submarine Hose for use as the main submarine hose in the string to be connected between reel and the Tanker on reeling systems
- Rated Working Pressure: 15 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

Type 7635 S RT Tanker End Hose

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)		Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 End	D2 Body	Submerged Weight Full of Sea Water (kg)			
			9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
300 (12")	480	700	1793 577	2018 611	2229 644	1.2
400 (16")	570	800	2379 823	2674 873	2951 919	1.6
500 (20")	685	900	3027 1048	3416 1118	3780 1183	2.0
600 (24")	820	1050	4188 1441	4749 1552	5275 1640	2.4

- Double Carcass Hose FLEXOMARINE Tanker End Submarine Hose for use to facilitate lifting up the string
- Identified by a double circumferential white bands at the tanker end
- This hose is extremely flexible to support the curvature demanded during offloading
- The fittings hose are welded lifting lugs
- Each lug are tested to support Safe Working Loads as follow:
12" = 100 kN 16" = 150 kN 20" = 200 kN
- Rated Working Pressure: 15 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

MARINE HOSES
FLOATING & SUBMARINE

Flexomarine

RT DOUBLE CARCASS 19 bar 7000 Series

Reeling Hose



7710F RT

Flexomarine half floating hose with one reinforced end (first off FPSO)



7720F RT

Flexomarine integral full-floating hose for mainline



7730F RT

Flexomarine integral full-floating hose with built-in reducer



7740F RT

Flexomarine integral full-floating hose for tail



7752F RT

Flexomarine integral full-floating tanker end hose (Jumbo)



7770BCRT

Flexomarine integral with buoyancy control hose
Designed upon request



7731S RT

Flexomarine submarine hose with one reinforced end for connection to the FPSO (First-Off FPSO).



7732S RT

Flexomarine standard mainline submarine hose



7735S RT

Flexomarine submarine hose for tanker end

RT DOUBLE CARCASS 19 bar
7000 Series

RT DOUBLE CARCASS HOSE

RT DOUBLE CARCASS 19 bar 7000 Series

Reeling Hose

Type 7731 S RT **One Reinforced End Hose**

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1	D2	D3	D4	Submerged Weight Full of Sea Water (kg)			
					9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
300 (12")	710	515	490	700	1914 593	2171 637	2412 678	1.2
400 (16")	810	615	590	800	2564 860	2906 925	3227 985	1.6
500 (20")	920	725	700	900	3277 1126	3721 1217	4136 1302	2.0
600 (24")	1070	860	830	1050	4396 1545	5004 1680	5574 1807	2.4

- Double Carcass Hose FLEXOMARINE SAFE One Reinforced End Submarine Hose to be used on FPSO connections
- Rated Working Pressure: 19 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

Type 7732 S RT Mainline Hose

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)		Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	D2 End	Submerged Weight Full of Sea Water (kg)	9.1m (30ft)	10.7m (35ft)	
300 (12")	490	700	1809 561	2042 595	2261 628	1.2
400 (16")	590	800	2439 811	2752 862	3046 909	1.6
500 (20")	700	900	3129 1058	3538 1129	3921 1196	2.0
600 (24")	830	1050	4217 1449	4783 1556	5314 1657	2.4

- Double Carcass Hose FLEXOMARINE Mainline Submarine Hose for use as the main submarine hose in the string to connect between reel and Tanker on reeling systems
- Rated Working Pressure: 19 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

Type 7735 S RT Tanker End Hose

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)		Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 End	D2 Body	Submerged Weight Full of Sea Water (kg)			
			9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
300 (12")	490	700	1818 574	2051 609	2270 642	1.2
400 (16")	590	800	2449 826	2762 877	3056 925	1.6
500 (20")	700	900	3142 1075	3550 1146	3933 1213	2.0
600 (24")	830	1050	4238 1446	4807 1564	5340 1665	2.4

- Double Carcass Hose FLEXOMARINE Tanker End Submarine Hose for use to facilitate lifting up the string
- Identified by a double circumferencial white bands at the tanker end
- This hose is extremely flexible to support the curvature demanded during offloading
- The fittings hose are welded lifting lugs
- Each lug are tested to support Safe Working Loads as follow:
12" = 100 kN 16" = 150 kN 20" = 200 kN
- Rated Working Pressure: 19 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is inially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

MARINE HOSES
FLOATING & SUBMARINE

Flexomarine

RT DOUBLE CARCASS 21 bar 7000 Series

Reeling Hose



7810F RT

Flexomarine half floating hose with one reinforced end (first off FPSO)



7820F RT

Flexomarine integral full-floating hose for mainline



7830F RT

Flexomarine integral full-floating hose with built-in reducer



7840F RT

Flexomarine integral full-floating hose for tail



7852F RT

Flexomarine integral full-floating tanker end hose (Jumbo)



7870BCRT

Flexomarine integral buoyancy control hose
Designed upon request



7831S RT

Flexomarine submarine hose with one reinforced end for connection to the FPSO (First-Off FPSO).



7832S RT

Flexomarine standard mainline submarine hose



7835S RT

Flexomarine submarine hose for tanker end

RT DOUBLE CARCASS 21 bar 7000 Series

Reeling Hose

Type 7831 S RT **One Reinforced End Hose**

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1	D2	D3	D4	Submerged Weight Full of Sea Water (kg)			
					9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
300 (12")	710	515	490	700	1923 596	2182 640	2424 682	1.2
400 (16")	810	615	590	800	2577 864	2921 929	3243 990	1.6
500 (20")	920	725	700	900	3294 1131	3739 1223	4157 1309	2.0
600 (24")	1070	860	830	1050	4418 1553	5029 1688	5602 1816	2.4

- Double Carcass Hose FLEXOMARINE SAFE One Reinforced End Submarine Hose to be used on FPSO connections
- Rated Working Pressure: 21 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

Type 7832 S RT **Mainline Hose**

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)		Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	D2 End	Submerged Weight Full of Sea Water (kg)			
			9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
300 (12")	490	700	1818 563	2053 598	2273 631	1.2
400 (16")	590	800	2451 815	2776 866	3061 914	1.6
500 (20")	700	900	3145 1063	3555 1135	3940 1202	2.0
600 (24")	830	1050	4238 1456	4807 1564	5341 1665	2.4

- Double Carcass Hose FLEXOMARINE Mainline Submarine Hose for use as the main submarine hose in the string to connect between reel and Tanker on reeling systems
- Rated Working Pressure: 21 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

Type 7835 S RT Tanker End Hose

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)		Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 End	D2 Body	Submerged Weight Full of Sea Water (kg)			
			9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
300 (12")	490	700	1827 577	2062 612	2282 645	1.2
400 (16")	590	800	2461 830	2766 881	3071 929	1.6
500 (20")	700	900	3158 1080	3568 1152	3953 1219	2.0
600 (24")	830	1050	4323 1471	4904 1580	5448 1682	2.4

- Double Carcass Hose FLEXOMARINE Tanker End Submarine Hose for use to facilitate lifting up the string
- Identified by a double circumferencial white bands at the tanker end
- This hose is extremely flexible to support the curvature demanded during offloading
- The fittings hose are welded lifting lugs
- Each lug are tested to support Safe Working Loads as follow:
12" = 100 kN 16" = 150 kN 20" = 200 kN
- Rated Working Pressure: 21 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is inially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

MARINE HOSES
FLOATING & SUBMARINE

Flexomarine

MONOBUOY HOSES TYPE



SINGLE CARCASS 15 bar 1000 Series

	1610F	Flexomarine half floating hose with one reinforced end (first off the buoy)
	1620F	Flexomarine integral full-floating hose for mainline
	1630F	Flexomarine integral full-floating hose with built-in reducer
	1640F	Flexomarine integral full-floating hose for tail
	1650F	Flexomarine integral full-floating tanker rail hose (Dumbell or Barbell type)
	1670BC	Flexomarine integral buoyancy control hose. Designed upon request
	1621S	Flexomarine submarine hose with one reinforced end and location collars for connection to the buoy or PLEM
	1622S	Flexomarine standard mainline submarine hose with location collars
	1631S	Flexomarine submarine hose with one reinforced end for connection to the buoy or PLEM
	1632S	Flexomarine standard mainline submarine hose
	1635S	Flexomarine submarine hose for tanker rail

SUBMARINE SINGLE CARCASS 15 bar 1000 Series

Type 1621S One Reinforced End Hose With Location Collars



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	Collar		D4 Body	Submerged Weight Full of Sea Water (kg)			
		D2 End	D3 End		9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	310	420	350	275	610 197	698 221	776 242	0.6
200 (8")	370	471	405	330	788 262	902 293	1001 321	0.8
250 (10")	420	581	470	385	1043 364	1188 404	1317 441	1.0
300 (12")	471	581	530	440	1308 507	1490 565	1654 619	1.2
400 (16")	581	697	625	535	1803 744	2050 826	2269 901	1.6
500 (20")	697	799	740	645	2396 1013	2726 1127	3020 1232	2.0
600 (24")	799	946	855	755	3118 1360	3551 1520	3940 1668	2.4

- Single Carcass Hose FLEXOMARINE One Reinforced End Submarine Hose for use to connect sea bed manifold or buoy connection used on monobuoy systems
- Supplied with float location collars
- Rated Working Pressure: 15 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

SUBMARINE SINGLE CARCASS 15 bar 1000 Series

Type 1622S Mainline Hose With Location Collars



Nominal Bore (mm)	Collar Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1		D2		Submerged Weight Full of Sea Water (kg)			
	Body	End	9.1m (30ft)	10.7m (35ft)	12.2m (40ft)			
150 (6")	310	420	-	-	572 175	646 191	715 207	0.6
200 (8")	370	471	-	-	744 233	841 255	931 276	0.8
250 (10")	420	581	-	-	997 329	1122 358	1239 386	1.0
300 (12")	471	581	-	-	1239 461	1398 505	1548 547	1.2
400 (16")	581	697	-	-	1737 683	1955 747	2161 806	1.6
500 (20")	697	799	-	-	2316 929	2612 1017	2890 1099	2.0
600 (24")	799	946	-	-	3024 1246	3416 1370	3784 1487	2.4

- Single Carcass Hose FLEXOMARINE Mainline Standard Submarine Hose for use as the main submarine hose in the string to connect between sea bed manifold and buoy connection used on monobuoy systems
- Supplied with float location collars
- Rated Working Pressure: 15 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

SUBMARINE SINGLE CARCASS 15 bar 1000 Series

Type 1631S One Reinforced End Hose



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 End	D2 Body	D3 Body	D4 End	9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	350	275	250	340	583 193	666 216	744 238	0.6
200 (8")	405	330	305	395	755 257	861 288	960 316	0.8
250 (10")	470	385	360	460	998 358	1135 397	1264 434	1.0
300 (12")	530	440	415	520	1272 502	1446 559	1610 613	1.2
400 (16")	625	535	505	615	1745 736	1978 816	2198 892	1.6
500 (20")	740	645	620	730	2326 1004	2639 1116	2933 1221	2.0
600 (24")	855	755	730	840	3036 1349	3451 1507	3840 1655	2.4

- Single Carcass Hose FLEXOMARINE One Reinforced End Submarine Hose for use to connect sea bed manifold or buoy connection
- Rated Working Pressure: 15 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

SUBMARINE SINGLE CARCASS 15 bar 1000 Series

Type 1632S Mainline Hose



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	D2 End			9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	250	340	-	-	519 168	587 184	651 199	0.6
200 (8")	305	395	-	-	678 225	767 246	850 266	0.8
250 (10")	360	460	-	-	908 318	1025 346	1135 373	1.0
300 (12")	415	520	-	-	1169 452	1320 495	1461 536	1.2
400 (16")	505	615	-	-	1621 669	1826 731	2019 788	1.6
500 (20")	620	730	-	-	2178 912	2457 997	2718 1077	2.0
600 (24")	730	840	-	-	2860 1226	3235 1348	3585 1462	2.4

- Single Carcass Hose FLEXOMARINE Mainline Submarine Hose for use as the main submarine hose in the string to connect between sea bed manifold and buoy connection used on monobuoy systems
- Rated Working Pressure: 15 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

SUBMARINE SINGLE CARCASS 15 bar 1000 Series

Type 1635S Tanker Rail Hose



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 End	D2 Body			Submerged Weight Full of Sea Water (kg)			
					9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	250	340	-	-	519 168	587 184	651 199	0.6
200 (8")	305	395	-	-	678 225	767 246	850 266	0.8
250 (10")	360	460	-	-	908 318	1025 346	1135 373	1.0
300 (12")	415	520	-	-	1169 452	1320 495	1461 536	1.2
400 (16")	505	615	-	-	1621 669	1826 731	2019 788	1.6
500 (20")	620	730	-	-	2178 912	2457 997	2718 1077	2.0

- Single Carcass Hose FLEXOMARINE Tanker Rail Submarine Hose for use to facilitate lifting up the string
- Identified by a double circumferencial white bands at the tanker end
- This hose is extremely flexible to support the curvature demanded during offloading
- The fittings hose are welded lifting lugs
- Each lug are tested to support Safe Working Loads as follow:
6" = 40 kN 8" = 50 kN 10" = 70 kN
12" = 100 kN 16" = 150 kN 20" = 200 kN
- Rated Working Pressure: 15 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

MARINE HOSES
FLOATING & SUBMARINE

Flexomarine

SINGLE CARCASS 19 bar 1000 Series



1710F

Flexomarine half floating hose with one reinforced end (first off the buoy)



1720F

Flexomarine integral full-floating hose for mainline



1730F

Flexomarine integral full-floating hose with built-in reducer



1740F

Flexomarine integral full-floating hose for tail



1750F

Flexomarine integral full-floating tanker rail hose (Dumbbell or Barbell type)



1770BC

Flexomarine integral buoyancy control hose. Designed upon request



1721S

Flexomarine submarine hose with one reinforced end and location collars for connection to the buoy or PLEM



1722S

Flexomarine standard mainline submarine hose with location collars



1731S

Flexomarine submarine hose with one reinforced end for connection to the buoy or PLEM



1732S

Flexomarine standard mainline submarine hose



1735S

Flexomarine submarine hose for tanker rail

SUBMARINE SINGLE CARCASS 19 bar 1000 Series

Type 1721S One Reinforced End Hose With Location Collars



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	Collar		D4 Body	Submerged Weight Full of Sea Water (kg)			
		D2 End	D3 End		9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	310	420	350	275	610 197	698 221	776 242	0.6
200 (8")	370	471	415	335	818 268	936 300	1041 329	0.8
250 (10")	420	581	475	390	1076 370	1227 412	1362 450	1.0
300 (12")	471	581	535	445	1346 515	1535 574	1706 629	1.2
400 (16")	581	697	630	540	1848 751	2103 835	2330 912	1.6
500 (20")	697	799	745	650	2449 1022	2789 1138	3093 1245	2.0
600 (24")	799	946	860	765	3184 1375	3627 1537	4029 1687	2.4

- Single Carcass Hose FLEXOMARINE One Reinforced End Submarine Hose for use to connect sea bed manifold or buoy connection used on monobuoy systems
- Supplied with float location collars
- Rated Working Pressure: 19 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

SUBMARINE SINGLE CARCASS 19 bar 1000 Series

Type 1722S Mainline Hose With Location Collars

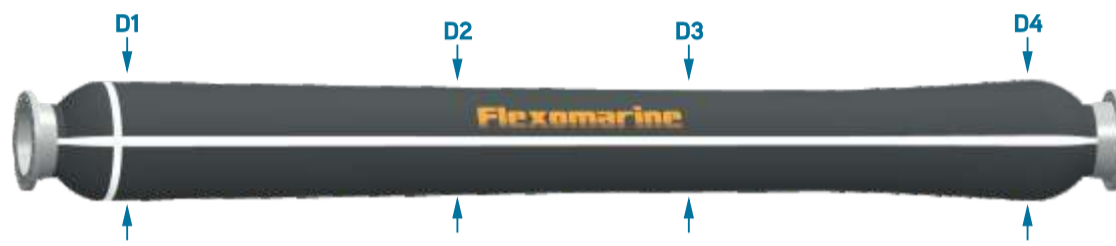


Nominal Bore (mm)	Collar Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1		D2		Submerged Weight Full of Sea Water (kg)			
	Body	End	9.1m (30ft)	10.7m (35ft)	12.2m (40ft)			
150 (6")	310	420	-	-	572 175	646 191	715 207	0.6
200 (8")	370	471	-	-	770 238	871 261	966 282	0.8
250 (10")	420	581	-	-	1027 334	1156 364	1279 392	1.0
300 (12")	471	581	-	-	1273 467	1439 512	1594 555	1.2
400 (16")	581	697	-	-	1776 689	2002 753	2214 814	1.6
500 (20")	697	799	-	-	2363 936	2668 1024	2954 1108	2.0
600 (24")	799	946	-	-	3082 1257	3484 1383	3862 1501	2.4

- Single Carcass Hose FLEXOMARINE Mainline Standard Submarine Hose for use as the main submarine hose in the string to connect between sea bed manifold and buoy connection used on monobuoy systems
- Supplied with float location collars
- Rated Working Pressure: 19 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

SUBMARINE SINGLE CARCASS 19 bar 1000 Series

Type 1731S One Reinforced End Hose



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 End	D2 Body	D3 Body	D4 End	9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	350	275	250	340	583 193	666 216	744 238	0.6
200 (8")	415	335	310	400	787 264	898 295	1003 324	0.8
250 (10")	475	390	365	465	1034 365	1178 405	1313 443	1.0
300 (12")	535	445	420	525	1314 510	1496 569	1666 624	1.2
400 (16")	630	540	515	620	1793 744	2036 826	2263 903	1.6
500 (20")	745	650	625	735	2384 1013	2708 1127	3012 1234	2.0
600 (24")	860	765	735	850	3107 1364	3535 1524	3936 1674	2.4

- Single Carcass Hose FLEXOMARINE One Reinforced End Submarine Hose for use to connect sea bed manifold or buoy connection
- Rated Working Pressure: 19 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

SUBMARINE SINGLE CARCASS 19 bar 1000 Series

Type 1732S Mainline Hose



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	D2 End			9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	250	340	-	-	519 168	587 184	651 199	0.6
200 (8")	310	400	-	-	709 231	803 252	891 273	0.8
250 (10")	365	465	-	-	943 324	1066 353	1181 380	1.0
300 (12")	420	525	-	-	1209 459	1367 504	1515 545	1.2
400 (16")	515	620	-	-	1668 676	1882 738	2082 797	1.6
500 (20")	625	735	-	-	2234 920	2523 1007	2794 1088	2.0
600 (24")	735	860	-	-	2930 1238	3316 1362	3679 1478	2.4

- Single Carcass Hose FLEXOMARINE Mainline Submarine Hose for use as the main submarine hose in the string to connect between sea bed manifold and buoy connection used on monobuoy systems
- Rated Working Pressure: 19 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

SUBMARINE SINGLE CARCASS 19 bar 1000 Series

Type 1735S Tanker Rail Hose



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 End	D2 Body			9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	250	340	-	-	519 168	587 184	651 199	0,6
200 (8")	310	400	-	-	709 231	803 252	891 273	0.8
250 (10")	365	465	-	-	943 324	1066 353	1181 380	1.0
300 (12")	420	525	-	-	1209 459	1367 504	1515 545	1.2
400 (16")	515	620	-	-	1668 676	1882 738	2082 797	1.6
500 (20")	625	735	-	-	2234 920	2523 1007	2794 1088	2.0

- Single Carcass Hose FLEXOMARINE Tanker Rail Submarine Hose for use to facilitate lifting up the string
- Identified by a double circumferencial white bands at the tanker end
- This hose is extremely flexible to support the curvature demanded during offloading
- The fittings hose are welded lifting lugs
- Each lug are tested to support Safe Working Loads as follow:
6" = 40 kN 8" = 50 kN 10" = 70 kN
12" = 100 kN 16" = 150 kN 20" = 200 kN
- Rated Working Pressure: 19 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

MARINE HOSES
FLOATING & SUBMARINE

Flexomarine

SINGLE CARCASS 21 bar 1000 Series

	1810F	Flexomarine half floating hose with one reinforced end (first off the buoy)
	1820F	Flexomarine integral full-floating hose for mainline
	1830F	Flexomarine integral full-floating hose with built-in reducer
	1840F	Flexomarine integral full-floating hose for tail
	1850F	Flexomarine integral full-floating tanker rail hose (Dumbell or Barbell type)
	1870BC	Flexomarine integral buoyancy control hose. Designed upon request
	1821S	Flexomarine submarine hose with one reinforced end and location collars for connection to the buoy or PLEM
	1822S	Flexomarine standard mainline submarine hose with location collars
	1831S	Flexomarine submarine hose with one reinforced end for connection to the buoy or PLEM
	1832S	Flexomarine standard mainline submarine hose
	1835S	Flexomarine submarine hose for tanker rail

SINGLE CARCASS 21 bar
 1000 Series

SUBMARINE SINGLE CARCASS 21 bar 1000 Series

Type 1821S One Reinforced End Hose With Location Collars



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	Collar		D4 Body	Submerged Weight Full of Sea Water (kg)			
		D2 End	D3 End		9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	310	420	355	280	635 202	727 227	809 249	0.6
200 (8")	370	471	415	335	818 268	936 300	1041 329	0.8
250 (10")	420	581	475	390	1076 370	1227 412	1362 450	1.0
300 (12")	471	581	540	455	1384 521	1580 582	1757 638	1.2
400 (16")	581	697	635	545	1895 761	2158 846	2393 925	1.6
500 (20")	697	799	750	655	2505 1034	2854 1151	3169 1260	2.0
600 (24")	799	946	870	775	3311 1399	3778 1566	4203 1720	2.4

- Single Carcass Hose FLEXOMARINE One Reinforced End Submarine Hose for use to connect sea bed manifold or buoy connection used on monobuoy systems
- Supplied with float location collars
- Rated Working Pressure: 21 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

SUBMARINE SINGLE CARCASS 21 bar 1000 Series

Type 1822S Mainline Hose With Location Collars



Nominal Bore (mm)	Collar Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1		D2		Submerged Weight Full of Sea Water (kg)			
	Body	End	9.1m (30ft)	10.7m (35ft)	12.2m (40ft)			
150 (6")	310	420	-	-	594 179	671 196	744 212	0.6
200 (8")	370	471	-	-	770 238	871 261	966 282	0.8
250 (10")	420	581	-	-	1027 334	1156 364	1279 392	1.0
300 (12")	471	581	-	-	1306 472	1478 518	1639 561	1.2
400 (16")	581	697	-	-	1817 697	2051 762	2270 823	1.6
500 (20")	697	799	-	-	2412 945	2726 1035	3022 1120	2.0
600 (24")	799	946	-	-	3195 1276	3619 1405	4018 1526	2.4

- Single Carcass Hose FLEXOMARINE Mainline Standard Submarine Hose for use as the main submarine hose in the string to connect between sea bed manifold and buoy connection used on monobuoy systems
- Supplied with float location collars
- Rated Working Pressure: 21 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

SUBMARINE SINGLE CARCASS 21 bar 1000 Series

Type 1831S One Reinforced End Hose



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 End	D2 Body	D3 Body	D4 End	Submerged Weight Full of Sea Water (kg)	9.1m (30ft)	10.7m (35ft)	
150 (6")	355	280	255	345	610 199	698 223	780 245	0.6
200 (8")	415	335	310	400	787 264	898 295	1003 324	0.8
250 (10")	475	390	365	465	1034 365	1178 405	1313 443	1.0
300 (12")	540	455	425	530	1355 517	1544 577	1722 634	1.2
400 (16")	635	545	520	625	1844 754	2096 838	2332 917	1.6
500 (20")	750	655	630	740	2445 1026	2780 1141	3094 1250	2.0
600 (24")	870	775	750	860	3246 1391	3700 1555	4126 1710	2.4

- Single Carcass Hose FLEXOMARINE One Reinforced End Submarine Hose for use to connect sea bed manifold or buoy connection
- Rated Working Pressure: 21 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

SUBMARINE SINGLE CARCASS 21 bar 1000 Series

Type 1832S Mainline Hose



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	D2 End			9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	255	345	-	-	545 173	617 189	685 205	0.6
200 (8")	310	400	-	-	709 231	803 252	891 273	0.8
250 (10")	365	465	-	-	943 324	1066 353	1181 380	1.0
300 (12")	425	530	-	-	1249 465	1414 510	1569 553	1.2
400 (16")	520	625	-	-	1718 684	1940 748	2149 808	1.6
500 (20")	630	740	-	-	2294 930	2593 1019	2874 1101	2.0
600 (24")	750	860	-	-	3066 1260	3478 1387	3864 1507	2.4

- Single Carcass Hose FLEXOMARINE Mainline Submarine Hose for use as the main submarine hose in the string to connect between sea bed manifold and buoy connection used on monobuoy systems
- Rated Working Pressure: 21 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

SUBMARINE SINGLE CARCASS 21 bar 1000 Series

Type 1835S Tanker Rail Hose



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 End	D2 Body			9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	255	345	-	-	545 173	617 189	685 205	0,6
200 (8")	310	400	-	-	709 231	803 252	891 273	0.8
250 (10")	365	465	-	-	943 324	1066 353	1181 380	1.0
300 (12")	425	530	-	-	1249 465	1414 510	1569 553	1.2
400 (16")	520	625	-	-	1718 684	1941 748	2149 808	1.6
500 (20")	630	740	-	-	2294 930	2593 1019	2874 1101	2.0

- Single Carcass Hose FLEXOMARINE Tanker Rail Submarine Hose for use to facilitate lifting up the string
- Identified by a double circumferencial white bands at the tanker end
- This hose is extremely flexible to support the curvature demanded during offloading
- The fittings hose are welded lifting lugs
- Each lug are tested to support Safe Working Loads as follow:
6" = 40 kN 8" = 50 kN 10" = 70 kN
12" = 100 kN 16" = 150 kN 20" = 200 kN
- Rated Working Pressure: 21 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested

MARINE HOSES
FLOATING & SUBMARINE

Flexomarine

DOUBLE CARCASS 15 bar 7000 Series



7610F

Flexomarine half floating hose with one reinforced end (first off the buoy)



7620F

Flexomarine integral full-floating hose for mainline



7630F

Flexomarine integral full-floating hose with built-in reducer



7640F

Flexomarine integral full-floating hose for tail



7650F

Flexomarine integral full-floating tanker rail hose (Dumbell or Barbell type)



7670BC

Flexomarine integral buoyancy control hose. Designed upon request



7621S

Flexomarine submarine hose with one reinforced end and location collars for connection to the buoy or PLEM



7622S

Flexomarine standard mainline submarine hose with location collars



7631S

Flexomarine submarine hose with one reinforced end for connection to the buoy or PLEM



7632S

Flexomarine standard mainline submarine hose



7635S

Flexomarine submarine hose for tanker rail

DOUBLE CARCASS 15 bar
7000 Series

SUBMARINE DOUBLE CARCASS 15 bar 7000 Series

Double Leak
Detection System

Double carcass hose developed and tested for offshore mooring applications

Type 7621S One Reinforced End Hose

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	Collar		D4 Body	Submerged Weight Full of Sea Water (kg)			
		D2 End	D3 End		9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	370	471	420	315	827 215	940 229	1037 241	0.6
200 (8")	420	581	490	380	1119 304	1270 323	1403 341	0.8
250 (10")	471	581	550	435	1399 410	1587 438	1755 462	1.0
300 (12")	581	697	630	505	1872 593	2128 637	2351 677	1.2
400 (16")	697	799	725	595	2478 851	2814 916	3104 974	1.6
500 (20")	799	876	840	710	3113 1092	3546 1184	3924 1267	2.0
600 (24")	946	1050	985	845	4282 1516	4893 1654	5429 1779	2.4

- Double Carcass Hose FLEXOMARINE SAFE One Reinforced End Submarine Hose for use to connect sea bed manifold or buoy connection used on monobuoy systems
- Supplied with float location collars
- Rated Working Pressure: 15 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

SUBMARINE DOUBLE CARCASS 15 bar 7000 Series

Double Leak
Detection System

Double carcass hose developed and tested for offshore mooring applications

Type 7622S Mainline Hose With Location Collars **FLEXOMARINE SAFE**



Nominal Bore (mm)	Collar Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1		D2		Submerged Weight Full of Sea Water (kg)			
	Body	End	9.1m (30ft)	10.7m (35ft)	12.2m (40ft)			
150 (6")	370	471	-	-	801 209	900 219	993 229	0.6
200 (8")	420	581	-	-	1088 291	1222 306	1348 320	0.8
250 (10")	471	581	-	-	1346 391	1514 411	1672 430	1.0
300 (12")	581	697	-	-	1841 569	2073 605	2293 639	1.2
400 (16")	697	799	-	-	2457 817	2765 869	3056 918	1.6
500 (20")	799	876	-	-	3070 1036	3468 1108	3844 1175	2.0
600 (24")	946	1050	-	-	4246 1435	4815 1544	5351 1647	2.4

- Double Carcass Hose FLEXOMARINE SAFE Mainline Standard Submarine Hose for use as the main submarine hose in the string to connect between sea bed manifold and buoy connection used on monobuoy systems
- Supplied with float location collars
- Rated Working Pressure: 15 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

SUBMARINE DOUBLE CARCASS 15 bar 7000 Series

Double Leak
Detection System

Double carcass hose developed and tested for offshore mooring applications

Type 7631S One Reinforced End Hose

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 End	D2 Body	D3 Body	D4 End	Submerged Weight Full of Sea Water (kg)			
					9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	420	315	290	410	792 211	896 223	993 235	0.6
200 (8")	490	380	355	480	1075 298	1218 317	1351 334	0.8
250 (10")	550	435	410	540	1365 406	1544 432	1712 457	1.0
300 (12")	630	505	480	620	1800 583	2038 625	2261 665	1.2
400 (16")	725	595	570	715	2376 838	2685 899	2975 957	1.6
500 (20")	840	710	685	830	3013 1079	3416 1167	3795 1250	2.0
600 (24")	985	845	820	975	4143 1497	4715 1631	5252 1756	2.4

- Double Carcass Hose FLEXOMARINE SAFE One Reinforced End Submarine Hose for use to connect sea bed manifold or buoy connection
- Rated Working Pressure: 15 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

SUBMARINE DOUBLE CARCASS 15 bar 7000 Series

Double Leak
Detection System

Double carcass hose developed and tested for offshore mooring applications

Type 7632S Mainline Hose

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	D2 End			Submerged Weight Full of Sea Water (kg)			
					9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	290	410	-	-	732 204	822 213	906 222	0.6
200 (8")	355	480	-	-	1002 285	1127 298	1245 311	0.8
250 (10")	410	540	-	-	1279 387	1439 406	1588 424	1.0
300 (12")	480	620	-	-	1699 557	1913 591	2114 622	1.2
400 (16")	570	715	-	-	2255 797	2537 845	2800 891	1.6
500 (20")	685	830	-	-	2871 1015	3241 1084	3587 1148	2.0
600 (24")	820	975	-	-	3969 1404	4501 1509	4999 1607	2.4

- Double Carcass Hose FLEXOMARINE SAFE Mainline Submarine Hose for use as the main submarine hose in the string to connect between sea bed manifold and buoy connection used on monobuoy systems
- Rated Working Pressure: 15 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

SUBMARINE DOUBLE CARCASS 15 bar 7000 Series

Double Leak
Detection System

Double carcass hose developed and tested for offshore mooring applications

Type 7635S Tanker Rail Hose

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 End	D2 Body			Submerged Weight Full of Sea Water (kg)			
					9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	290	410	-	-	736 208	826 218	911 226	0,6
200 (8")	355	480	-	-	1007 290	1133 304	1250 316	0.8
250 (10")	410	540	-	-	1285 393	1445 412	1594 430	1.0
300 (12")	480	620	-	-	1708 565	1922 599	2123 631	1.2
400 (16")	570	715	-	-	2266 807	2547 856	2811 901	1.6
500 (20")	685	830	-	-	2883 1028	3253 1096	3600 1160	2.0

- Double Carcass Hose FLEXOMARINE SAFE Tanker Rail Submarine Hose for use to facilitate lifting up the string
- Identified by a double circumferencial white bands at the tanker end
- This hose is extremely flexible to support the curvature demanded during offloading
- The fittings hose are welded lifting lugs
- Each lug are tested to support Safe Working Loads as follow:
6" = 40 kN 8" = 50 kN 10" = 70 kN
12" = 100 kN 16" = 150 kN 20" = 200 kN
- Rated Working Pressure: 15 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is inially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

MARINE HOSES
FLOATING & SUBMARINE

Flexomarine

DOUBLE CARCASS 19 bar 7000 Series



7710F

Flexomarine half floating hose with one reinforced end (first off the buoy)



7720F

Flexomarine integral full-floating hose for mainline



7730F

Flexomarine integral full-floating hose with built-in reducer



7740F

Flexomarine integral full-floating hose for tail



7750F

Flexomarine integral full-floating tanker rail hose (Dumbbell or Barbell type)



7770BC

Flexomarine integral buoyancy control hose. Designed upon request



7721S

Flexomarine submarine hose with one reinforced end and location collars for connection to the buoy or PLEM



7722S

Flexomarine standard mainline submarine hose with location collars



7731S

Flexomarine submarine hose with one reinforced end for connection to the buoy or PLEM



7732S

Flexomarine standard mainline submarine hose



7735S

Flexomarine submarine hose for tanker rail

DOUBLE CARCASS 19 bar
7000 Series

SUBMARINE DOUBLE CARCASS 19 bar 7000 Series

Double Leak
Detection System

Double carcass hose developed and tested for offshore mooring applications

Type 7721S One Reinforced End Hose With Location Collars

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	Collar		D4 Body	Submerged Weight Full of Sea Water (kg)			
		D2 End	D3 End		9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	370	471	435	330	850 212	967 225	1070 237	0.6
200 (8")	420	581	495	385	1112 298	1264 318	1398 336	0.8
250 (10")	471	697	570	450	1468 417	1662 443	1837 467	1.0
300 (12")	581	697	640	515	1890 581	2152 625	2383 665	1.2
400 (16")	697	876	740	615	2557 844	2907 910	3214 968	1.6
500 (20")	799	946	860	725	3233 1100	3681 1191	4078 1274	2.0
600 (24")	946	1050	1000	855	4321 1507	4936 1642	5482 1764	2.4

- Double Carcass Hose FLEXOMARINE SAFE One Reinforced End Submarine Hose for use to connect sea bed manifold or buoy connection used on monobuoy systems
- Supplied with float location collars
- Rated Working Pressure: 19 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

SUBMARINE DOUBLE CARCASS 19 bar 7000 Series

Double Leak
Detection System

Double carcass hose developed and tested for offshore mooring applications

Type 7722S Mainline Hose With Location Collars **FLEXOMARINE SAFE**



Nominal Bore (mm)	Collar Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1		D2		Submerged Weight Full of Sea Water (kg)			
	Body	End	9.1m (30ft)	10.7m (35ft)	12.2m (40ft)			
150 (6")	370	471	-	-	818 204	922 215	1019 224	0.6
200 (8")	420	581	-	-	1078 285	1213 300	1339 314	0.8
250 (10")	471	697	-	-	1431 401	1605 422	1769 441	1.0
300 (12")	581	697	-	-	1851 556	2090 592	2314 625	1.2
400 (16")	697	876	-	-	2542 809	2864 861	3167 910	1.6
500 (20")	799	946	-	-	3190 1046	3604 1117	3994 1185	2.0
600 (24")	946	1050	-	-	4268 1428	4843 1536	5384 1637	2.4

- Double Carcass Hose FLEXOMARINE SAFE Mainline Standard Submarine Hose for use as the main submarine hose in the string to connect between sea bed manifold and buoy connection used on monobuoy systems
- Supplied with float location collars
- Rated Working Pressure: 19 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

SUBMARINE DOUBLE CARCASS 19 bar 7000 Series

Double Leak
Detection System

Double carcass hose developed and tested for offshore mooring applications

Type 7731S One Reinforced End Hose

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 End	D2 Body	D3 Body	D4 End	Submerged Weight Full of Sea Water (kg)	9.1m (30ft)	10.7m (35ft)	
150 (6")	435	330	300	425	821 208	931 220	1034 232	0.6
200 (8")	495	385	360	485	1073 293	1217 312	1351 329	0.8
250 (10")	570	450	420	560	1419 411	1606 436	1781 460	1.0
300 (12")	640	515	490	630	1829 573	2075 615	2305 655	1.2
400 (16")	740	615	590	730	2450 830	2778 892	3084 951	1.6
500 (20")	860	725	700	850	3132 1087	3556 1175	3953 1257	2.0
600 (24")	1000	855	830	990	4201 1491	4783 1622	5328 1744	2.4

- Double Carcass Hose FLEXOMARINE SAFE One Reinforced End Submarine Hose for use to connect sea bed manifold or buoy connection
- Rated Working Pressure: 19 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

SUBMARINE DOUBLE CARCASS 19 bar 7000 Series

Double Leak
Detection System

Double carcass hose developed and tested for offshore mooring applications

Type 7732S Mainline Hose

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	D2 End			Submerged Weight Full of Sea Water (kg)			
					9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	300	425	-	-	761 197	857 207	948 215	0.6
200 (8")	360	485	-	-	1000 276	1127 289	1247 302	0.8
250 (10")	420	560	-	-	1334 389	1501 409	1658 427	1.0
300 (12")	490	630	-	-	1729 541	1952 575	2161 606	1.2
400 (16")	590	730	-	-	2331 782	2630 832	2911 878	1.6
500 (20")	700	850	-	-	2991 1021	3381 1090	3747 1154	2.0
600 (24")	830	990	-	-	4030 1399	4572 1502	5079 1599	2.4

- Double Carcass Hose FLEXOMARINE SAFE Mainline Submarine Hose for use as the main submarine hose in the string to connect between sea bed manifold and buoy connection used on monobuoy systems
- Rated Working Pressure: 19 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

SUBMARINE DOUBLE CARCASS 19 bar 7000 Series

Double Leak
Detection System

Double carcass hose developed and tested for offshore mooring applications

Type 7735S Tanker Rail Hose

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	D2 End			Submerged Weight Full of Sea Water (kg)			
					9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	300	425	-	-	765 205	862 215	952 223	0,6
200 (8")	360	485	-	-	1005 285	1132 298	1252 311	0.8
250 (10")	420	560	-	-	1340 400	1507 419	1664 437	1.0
300 (12")	490	630	-	-	1738 554	1961 588	2170 620	1.2
400 (16")	590	730	-	-	2341 797	2640 846	2921 893	1.6
500 (20")	700	850	-	-	3003 1038	3393 1106	3759 1171	2.0

- Double Carcass Hose FLEXOMARINE SAFE Tanker Rail Submarine Hose for use to facilitate lifting up the string
- Identified by a double circumferencial white bands at the tanker end
- This hose is extremely flexible to support the curvature demanded during offloading
- The fittings hose are welded lifting lugs
- Each lug are tested to support Safe Working Loads as follow:
6" = 40 kN 8" = 50 kN 10" = 70 kN
12" = 100 kN 16" = 150 kN 20" = 200 kN
- Rated Working Pressure: 19 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is inially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

MARINE HOSES
FLOATING & SUBMARINE

Flexomarine

DOUBLE CARCASS 21 bar 7000 Series

	7810F	Flexomarine half floating hose with one reinforced end (first off the buoy)
	7820F	Flexomarine integral full-floating hose for mainline
	7830F	Flexomarine integral full-floating hose with built-in reducer
	7840F	Flexomarine integral full-floating hose for tail
	7850F	Flexomarine integral full-floating tanker rail hose (Dumbell or Barbell type)
	7870BC	Flexomarine integral buoyancy control hose. Designed upon request
	7821S	Flexomarine submarine hose with one reinforced end and location collars for connection to the buoy or PLEM
	7822S	Flexomarine standard mainline submarine hose with location collars
	7831S	Flexomarine submarine hose with one reinforced end for connection to the buoy or PLEM
	7832S	Flexomarine standard mainline submarine hose
	7835S	Flexomarine submarine hose for tanker rail

SUBMARINE DOUBLE CARCASS 21 bar 7000 Series

Double Leak
Detection System

Double carcass hose developed and tested for offshore mooring applications

Type 7821S One Reinforced End Hose With Location Collars **FLEXOMARINE SAFE**



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	Collar		D4 Body	Submerged Weight Full of Sea Water (kg)			
		D2 End	D3 End		9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	370	471	435	330	876 218	997 232	1103 244	0.6
200 (8")	420	581	495	385	1147 308	1303 328	1441 346	0.8
250 (10")	471	697	570	450	1513 430	1713 457	1894 482	1.0
300 (12")	581	697	640	515	1949 599	2219 645	2456 686	1.2
400 (16")	697	876	740	615	2636 870	2997 938	3313 998	1.6
500 (20")	799	946	860	725	3333 1134	3795 1228	4204 1313	2.0
600 (24")	946	1050	1000	855	4455 1554	5089 1693	5651 1819	2.4

- Double Carcass Hose FLEXOMARINE SAFE One Reinforced End Submarine Hose for use to connect sea bed manifold or buoy connection used on monobuoy systems
- Supplied with float location collars
- Rated Working Pressure: 21 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

SUBMARINE DOUBLE CARCASS 21 bar 7000 Series

Double Leak
Detection System

Double carcass hose developed and tested for offshore mooring applications

Type 7822S Mainline Hose With Location Collars **FLEXOMARINE SAFE**



Nominal Bore (mm)	Collar Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1		D2		Submerged Weight Full of Sea Water (kg)			
	Body	End	9.1m (30ft)	10.7m (35ft)	12.2m (40ft)			
150 (6")	370	471	-	-	843 211	950 221	1051 231	0.6
200 (8")	420	581	-	-	1112 294	1250 309	1381 323	0.8
250 (10")	471	697	-	-	1475 414	1655 435	1823 454	1.0
300 (12")	581	697	-	-	1908 573	2154 610	2386 645	1.2
400 (16")	697	876	-	-	2620 834	2952 887	3265 938	1.6
500 (20")	799	946	-	-	3289 1078	3716 1152	4118 1221	2.0
600 (24")	946	1050	-	-	4400 1472	4992 1583	5550 1687	2.4

- Double Carcass Hose FLEXOMARINE SAFE Mainline Standard Submarine Hose for use as the main submarine hose in the string to connect between sea bed manifold and buoy connection used on monobuoy systems
- Supplied with float location collars
- Rated Working Pressure: 21 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

SUBMARINE DOUBLE CARCASS 21 bar 7000 Series

Double Leak
Detection System

Double carcass hose developed and tested for offshore mooring applications

Type 7831S One Reinforced End Hose

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 End	D2 Body	D3 Body	D4 End	Submerged Weight Full of Sea Water (kg)	9.1m (30ft)	10.7m (35ft)	
150 (6")	435	330	300	425	846 214	960 227	1066 239	0.6
200 (8")	495	385	360	485	1106 302	1254 322	1393 340	0.8
250 (10")	570	450	420	560	1463 423	1656 450	1836 474	1.0
300 (12")	640	515	490	630	1885 590	2139 634	2377 675	1.2
400 (16")	740	615	590	730	2526 855	2864 920	3180 981	1.6
500 (20")	860	725	700	850	3229 1120	3666 1211	4076 1296	2.0
600 (24")	1000	855	830	990	4331 1537	4931 1672	5493 1798	2.4

- Double Carcass Hose FLEXOMARINE SAFE One Reinforced End Submarine Hose for use to connect sea bed manifold or buoy connection
- Rated Working Pressure: 21 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

SUBMARINE DOUBLE CARCASS 21 bar 7000 Series

Double Leak
Detection System

Double carcass hose developed and tested for offshore mooring applications

Type 7832S Mainline Hose

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	D2 End			Submerged Weight Full of Sea Water (kg)			
					9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	300	425	-	-	784 203	884 213	977 222	0.6
200 (8")	360	485	-	-	1031 284	1162 298	1285 312	0.8
250 (10")	420	560	-	-	1375 401	1547 421	1709 440	1.0
300 (12")	490	630	-	-	1783 558	2012 592	2228 625	1.2
400 (16")	590	730	-	-	2403 807	2711 857	3001 905	1.6
500 (20")	700	850	-	-	3083 1053	3486 1123	3863 1190	2.0
600 (24")	830	990	-	-	4155 1442	4713 1548	5236 1648	2.4

- Double Carcass Hose FLEXOMARINE SAFE Mainline Submarine Hose for use as the main submarine hose in the string to connect between sea bed manifold and buoy connection used on monobuoy systems
- Rated Working Pressure: 21 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is initially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

SUBMARINE DOUBLE CARCASS 21 bar 7000 Series

Double Leak
Detection System

Double carcass hose developed and tested for offshore mooring applications

Type 7835S Tanker Rail Hose

FLEXOMARINE SAFE



Nominal Bore (mm)	Outside Diameter (mm)				Weight in Air Empty (kg)			Minimum Bending Radius (m)
	D1 Body	D2 End			Submerged Weight Full of Sea Water (kg)			
					9.1m (30ft)	10.7m (35ft)	12.2m (40ft)	
150 (6")	300	425	-	-	789 211	888 221	981 230	0,6
200 (8")	360	485	-	-	1036 293	1167 308	1290 321	0.8
250 (10")	420	560	-	-	1381 412	1553 432	1715 451	1.0
300 (12")	490	630	-	-	1791 572	2021 606	2237 639	1.2
400 (16")	590	730	-	-	2413 822	2722 873	3011 920	1.6
500 (20")	700	850	-	-	3096 1070	3498 1141	3875 1207	2.0

- Double Carcass Hose FLEXOMARINE SAFE Tanker Rail Submarine Hose for use to facilitate lifting up the string
- Identified by a double circumferencial white bands at the tanker end
- This hose is extremely flexible to support the curvature demanded during offloading
- The fittings hose are welded lifting lugs
- Each lug are tested to support Safe Working Loads as follow:
6" = 40 kN 8" = 50 kN 10" = 70 kN
12" = 100 kN 16" = 150 kN 20" = 200 kN
- Rated Working Pressure: 21 bar
- Minimum Bending Radius: 4D (up to 2D without any permanent deformation)
- Electrical Continuity: Discontinuous or as requested
- Leak Detection: In case of failure of the primary carcass, a rod installed in each hose end, that is inially embedded will become visible after the burst of the primary carcass giving confirmation of the failure.

MARINE HOSES
FLOATING & SUBMARINE
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