



LINTTECH MARINE HOSES



Hose Selection

LINTECH SINGLE CARCASS HOSE

» FEATURES

1. LINTECH Design Concepts ---- “No Leakage & No Bulge”

2. Leak Free Tube Lining Construction

- Strong adhesion between nipple & lining
- Overlapping of tube layers, No air trapped & Strong tightening at tube fabrication
- High oil resistant material
- Longer adhesion length

1.Strong Flotation Construction

- No-Gas-Lock System

3. Polyester Cord Reinforcement

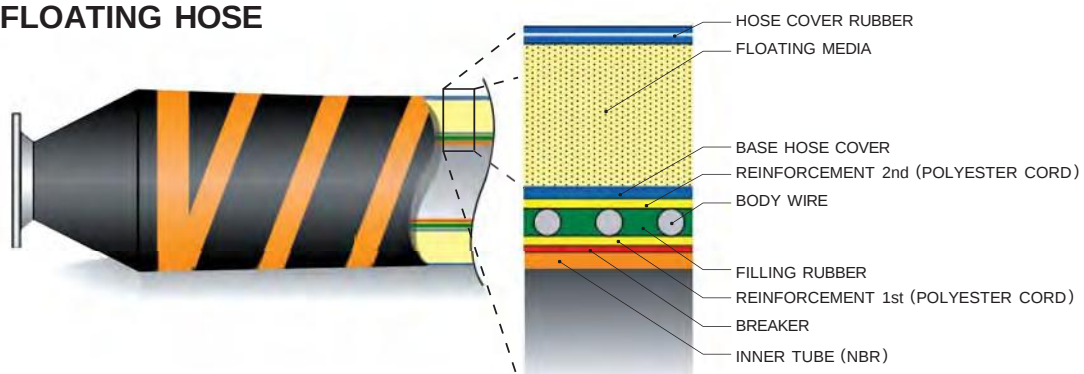
- Better fatigue performance
- No permanent deformation (eg. Kinking)
- Non-Corrosion
- Light Weight

4. Body Wire

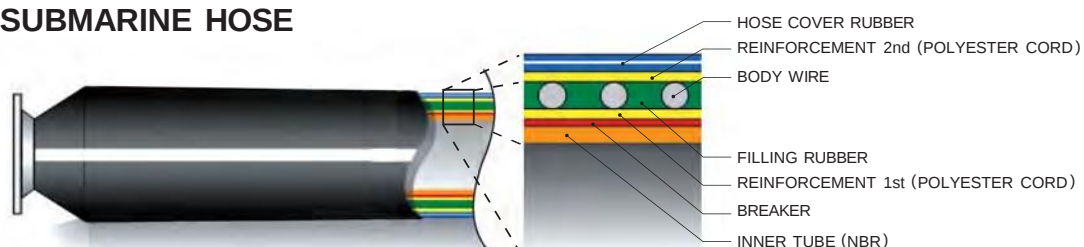
Each helical wire in layer (s) is continuous without welding.

» CONSTRUCTION

FLOATING HOSE



SUBMARINE HOSE



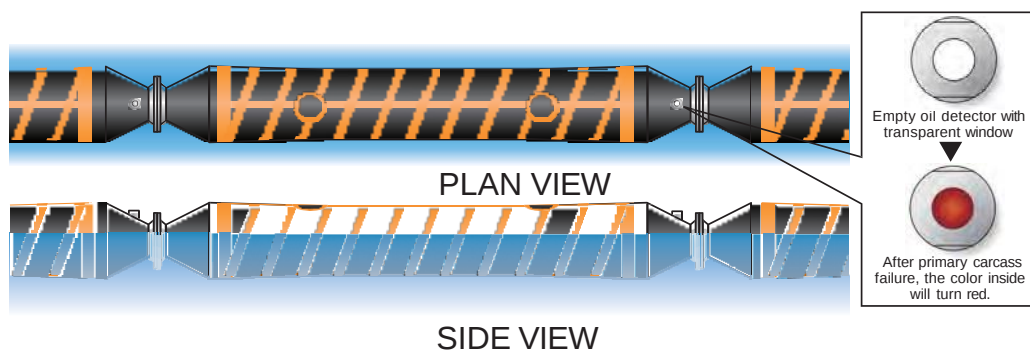
LINTECH DOUBLE CARCASS HOSE

Oil Detector Warning System (DC)

» FEATURES for FLOATING HOSE

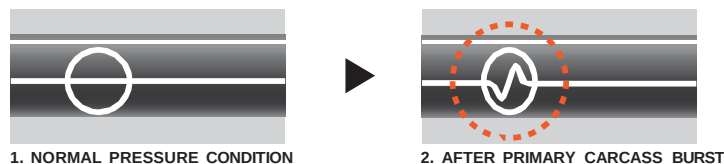
“The Oil Detector Warning System” is a LINTECH double carcass hose’s primary carcass failure detection system.

At the time of primary carcass failure, the color inside the built-in oil detector will turn red. It is visible even after completion of operation, allowing operator to easily check and confirm that particular hose at anytime.



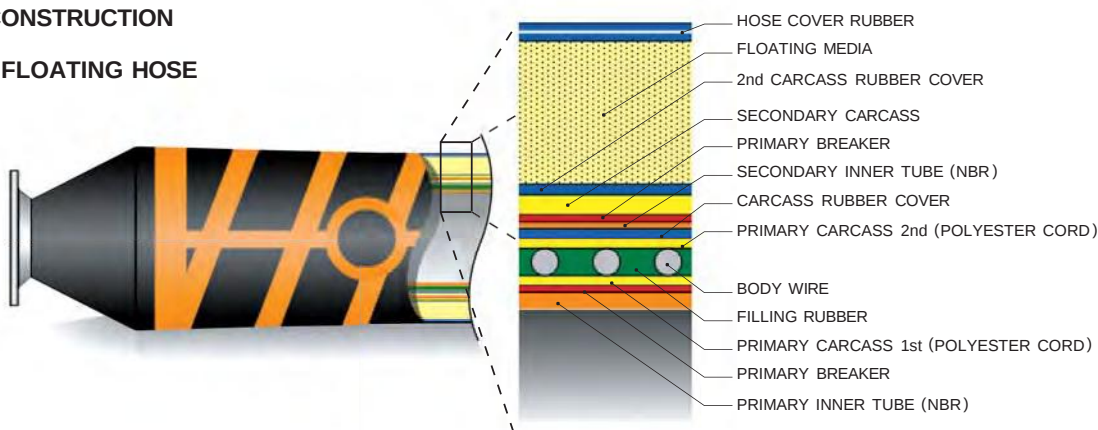
for SUBMARINE HOSE

“Twist Warning System (TWS)” is specially designed for the submarine hose as a main leak detector. It is characterized by a distinct visible change which helps diver's inspection under water. The oil pot detector is also available for submarine hose as a secondary function of detection system. However, for submarine hose, please refer to TWS as a priority since oil pot detector is too sensitive to use as a part of submarine hose. The operators can firmly confirm the primary carcass failure through these two detectors. This confirmation work reduces the risk of unnecessary hose replacement under water.

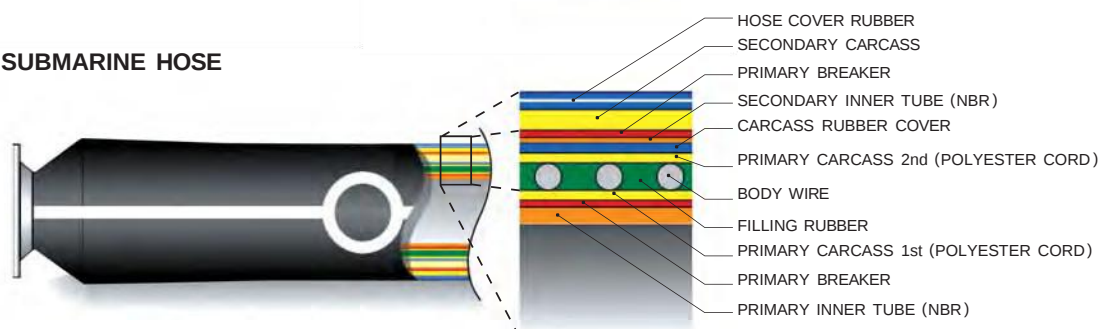


» CONSTRUCTION

FLOATING HOSE



SUBMARINE HOSE



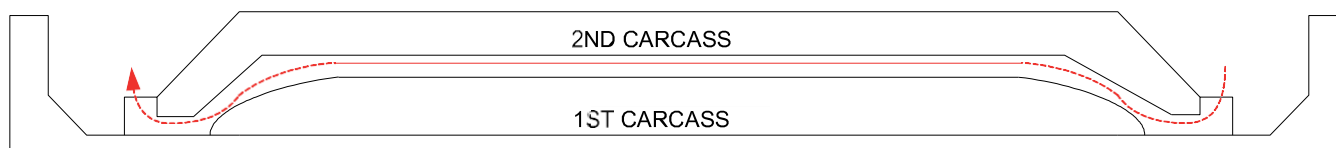
ADDITIONAL TESTS ON PRIMARY AND SECONDARY CARCASS

Air leak test for the secondary carcass

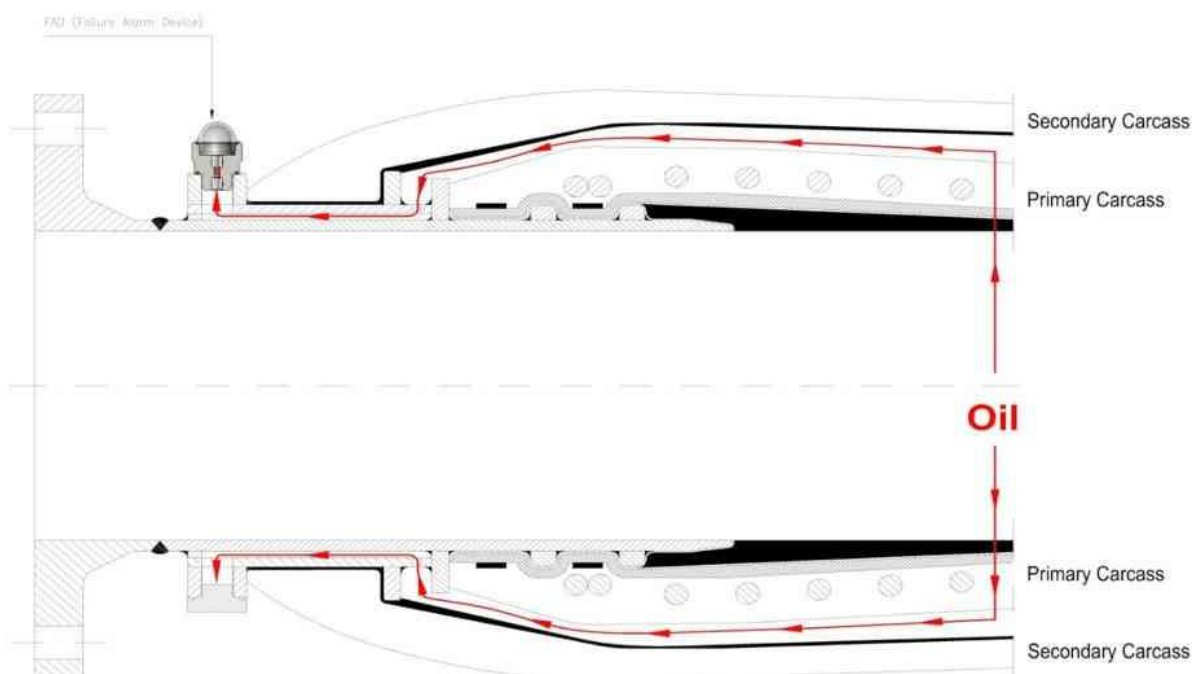
The Man Oil & Marine Double carcass hose allows to carry out an air leak test for the secondary carcass after vulcanization, while the hose is still on the mandrel as requested by some technical specifications.

Air passage flow test

An air passage flow test for each double carcass hose (floating and submarine) can also be carried out after all manufacturing steps are complete. Free flow passage of air is carried out to verify the annular space between the primary carcass. Free passage of air can be established in both directions.



The scope of the additional tests is to guarantee the efficiency of the antipollution system. The following sketch shows the functioning of Man Oil & Marine Hydraulics Italia S.r.l. double carcass hoses in case of failure of the first carcass.



The FAD has been successfully tested in accordance with GMPHOM 2009 requirements. The FAD has been subjected to the prototype hose burst test showing that after the burst of the primary carcass the leak detection immediately activated and continued to operate until and after the burst of the secondary carcass, without any damage.

LDP-HS10015A

One End Reinforced Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure	bar	75
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow velocity UP TO Electrically (as requested)	°C	-29; +52
	m/s	21
	Continuous / Discontinuous	

CHARACTERISTICS



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Submerg. Weight full of water (Kg)	Submerg. Weight full of oil (Kg)
	d1 (mm)	d2 (mm)	d3 (mm)							
150	279	225	272	150 x 9,1	413	586	565	385	201	180
150	279	225	272	150 x 10,7	467	670	645	447	222	198
150	279	225	272	150 x 12,2	522	753	725	509	244	216
200	345	287	330	200 x 9,1	604	914	876	619	295	257
200	345	287	330	200 x 10,7	686	1047	1003	720	327	283
200	345	287	330	200 x 12,2	767	1180	1130	820	359	309
250	409	345	394	250 x 9,1	836	1323	1263	893	429	370
250	409	345	394	250 x 10,7	947	1514	1445	1039	475	406
250	409	345	394	250 x 12,2	1059	1707	1628	1185	522	443
300	460	397	445	300 x 9,1	988	1682	1598	1180	503	418
300	460	397	445	300 x 10,7	1117	1926	1828	1373	554	455
300	460	397	445	300 x 12,2	1246	2171	2058	1566	605	493
400	572	507	556	400 x 9,1	1588	2699	2563	1923	776	640
400	572	507	556	400 x 10,7	1808	3104	2946	2238	865	707
400	572	507	556	400 x 12,2	2028	3509	3328	2554	955	774
500	694	616	671	500 x 9,1	2244	4011	3796	2830	1181	965
500	694	616	671	500 x 10,7	2541	4603	4351	3295	1308	1056
500	694	616	671	500 x 12,2	2838	5194	4907	3760	1434	1147
600	825	732	794	600 x 9,1	3140	5720	5405	4002	1718	1403
600	825	732	794	600 x 10,7	3554	6564	6197	4660	1904	1537
600	825	732	794	600 x 12,2	3968	7407	6988	5318	2090	1670

LDP-HS10019A

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Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure	bar	95
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow velocity UP TO Electrically (as requested)	°C	-29; +52
	m/s	21
	Continuous / Discontinuous	

CHARACTERISTICS



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	d1 (mm)	d2 (mm)	d3 (mm)							
150	279	225	272	150 x 9,1	413	586	565	385	201	180
150	279	225	272	150 x 10,7	467	670	645	447	222	198
150	279	225	272	150 x 12,2	522	753	725	509	244	216
200	345	287	330	200 x 9,1	604	914	876	619	295	257
200	345	287	330	200 x 10,7	686	1047	1003	720	327	283
200	345	287	330	200 x 12,2	767	1180	1130	820	359	309
250	409	345	394	250 x 9,1	852	1338	1278	893	444	385
250	409	345	394	250 x 10,7	964	1532	1462	1039	493	423
250	409	345	394	250 x 12,2	1078	1726	1647	1185	541	462
300	460	397	445	300 x 9,1	998	1692	1607	1180	512	428
300	460	397	445	300 x 10,7	1128	1937	1839	1373	565	466
300	460	397	445	300 x 12,2	1258	2183	2071	1566	618	505
400	572	507	556	400 x 9,1	1588	2699	2563	1923	776	640
400	572	507	556	400 x 10,7	1808	3104	2946	2238	865	707
400	572	507	556	400 x 12,2	2028	3509	3328	2554	955	774
500	694	616	671	500 x 9,1	2328	4095	3880	2830	1265	1049
500	694	616	671	500 x 10,7	2635	4697	4446	3295	1402	1151
500	694	616	671	500 x 12,2	2943	5299	5012	3760	1539	1252
600	825	732	794	600 x 9,1	3140	5720	5405	4002	1718	1403
600	825	732	794	600 x 10,7	3554	6564	6197	4660	1904	1537
600	825	732	794	600 x 12,2	3968	7407	6988	5318	2090	1670

LDP-HS10021A

One End Reinforced Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure	bar	105
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow velocity UP TO Electrically (as requested)	°C	-29; +52
	m/s	21
	Continuous / Discontinuous	

CHARACTERISTICS



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Submerg. Weight full of water (Kg)	Submerg. Weight full of oil (Kg)
	d1 (mm)	d2 (mm)	d3 (mm)							
150	279	225	272	150 x 9,1	413	586	565	385	201	180
150	279	225	272	150 x 10,7	467	670	645	447	222	198
150	279	225	272	150 x 12,2	522	753	725	509	244	216
200	345	287	330	200 x 9,1	615	925	887	619	306	268
200	345	287	330	200 x 10,7	698	1059	1015	720	339	295
200	345	287	330	200 x 12,2	782	1194	1144	820	374	323
250	409	345	394	250 x 9,1	852	1338	1278	893	444	385
250	409	345	394	250 x 10,7	964	1532	1462	1039	493	423
250	409	345	394	250 x 12,2	1078	1726	1647	1185	541	462
300	468	405	453	300 x 9,1	1073	1766	1682	1227	539	455
300	468	405	453	300 x 10,7	1216	2025	1927	1428	597	499
300	468	405	453	300 x 12,2	1360	2285	2172	1629	656	544
400	572	507	556	400 x 9,1	1588	2699	2563	1923	776	640
400	572	507	556	400 x 10,7	1808	3104	2946	2238	865	707
400	572	507	556	400 x 12,2	2028	3509	3328	2554	955	774
500	694	616	671	500 x 9,1	2328	4095	3880	2830	1265	1049
500	694	616	671	500 x 10,7	2635	4697	4446	3295	1402	1151
500	694	616	671	500 x 12,2	2943	5299	5012	3760	1539	1252
600	825	732	794	600 x 9,1	3278	5858	5543	4002	1855	1541
600	825	732	794	600 x 10,7	3710	6720	6353	4660	2060	1693
600	825	732	794	600 x 12,2	4143	7583	7163	5318	2265	1846

LDP-HS10015B

Mainline Submarine Hose

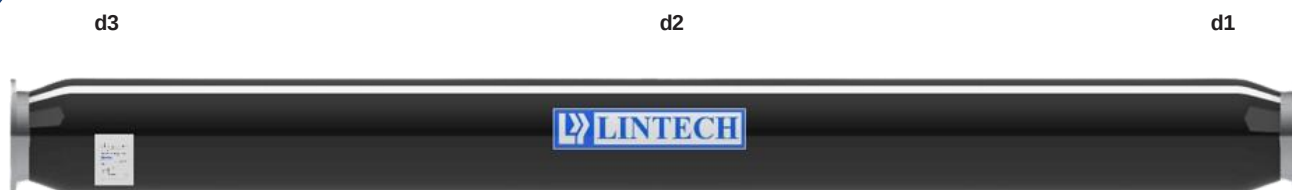
CONSTRUCTION

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PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure	bar	75
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO Electrically (as requested)	m/s	21
	Continuous / Discontinuous	

CHARACTERISTICS



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150	279	225	272	150 x 10,7	467	670	645	447	222	198
150	279	225	272	150 x 12,2	522	753	725	509	244	216
200	345	287	330	200 x 9,1	604	914	876	619	295	257
200	345	287	330	200 x 10,7	686	1047	1003	720	327	283
200	345	287	330	200 x 12,2	767	1180	1130	820	359	309
250	409	345	394	250 x 9,1	852	1338	1278	893	444	385
250	409	345	394	250 x 10,7	964	1532	1462	1039	493	423
250	409	345	394	250 x 12,2	1078	1726	1647	1185	541	462
300	460	397	445	300 x 9,1	998	1692	1607	1180	512	428
300	460	397	445	300 x 10,7	1128	1937	1839	1373	565	466
300	460	397	445	300 x 12,2	1258	2183	2071	1566	618	505
400	572	507	556	400 x 9,1	1588	2699	2563	1923	776	640
400	572	507	556	400 x 10,7	1808	3104	2946	2238	865	707
400	572	507	556	400 x 12,2	2028	3509	3328	2554	955	774
500	694	616	671	500 x 9,1	2328	4095	3880	2830	1265	1049
500	694	616	671	500 x 10,7	2635	4697	4446	3295	1402	1151
500	694	616	671	500 x 12,2	2943	5299	5012	3760	1539	1252
600	825	732	794	600 x 9,1	3140	5720	5405	4002	1718	1403
600	825	732	794	600 x 10,7	3554	6564	6197	4660	1904	1537
600	825	732	794	600 x 12,2	3968	7407	6988	5318	2090	1670

LDP-HS10019B

Mainline Submarine Hose

CONSTRUCTION

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Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
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Fitting	Built-in
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PERFORMANCE

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Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO Electrically (as requested)	m/s	21
	Continuous / Discontinuous	

CHARACTERISTICS



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	d1 (mm)	d2 (mm)	d3 (mm)							
150	272	222	272	150 x 9,1	387	561	540	372	189	167
150	272	222	272	150 x 10,7	438	640	615	432	208	183
150	272	222	272	150 x 12,2	488	719	691	492	227	199
200	330	279	330	200 x 9,1	554	863	826	587	276	239
200	330	279	330	200 x 10,7	628	989	945	682	306	262
200	330	279	330	200 x 12,2	702	1114	1064	778	336	286
250	394	337	394	250 x 9,1	792	1278	1219	855	423	364
250	394	337	394	250 x 10,7	896	1463	1394	994	469	400
250	394	337	394	250 x 12,2	999	1648	1569	1133	514	435
300	445	389	445	300 x 9,1	937	1631	1546	1135	495	411
300	445	389	445	300 x 10,7	1057	1867	1768	1321	546	447
300	445	389	445	300 x 12,2	1178	2103	1990	1507	597	484
400	552	493	552	400 x 9,1	1405	2516	2381	1819	697	562
400	552	493	552	400 x 10,7	1595	2891	2733	2117	774	616
400	552	493	552	400 x 12,2	1785	3266	3085	2415	851	670
500	667	598	667	500 x 9,1	2050	3818	3602	2670	1148	932
500	667	598	667	500 x 10,7	2311	4373	4122	3108	1265	1014
500	667	598	667	500 x 12,2	2572	4929	4641	3546	1383	1095
600	788	708	788	600 x 9,1	2678	5258	4943	3750	1508	1193
600	788	708	788	600 x 10,7	3015	6025	5658	4365	1659	1292
600	788	708	788	600 x 12,2	3352	6792	6372	4981	1810	1391

LDP-HS10021B

Mainline Submarine Hose

CONSTRUCTION

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Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
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Fitting	Built-in
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150	272	222	272	150 x 9,1	387	561	540	372	189	167
150	272	222	272	150 x 10,7	438	640	615	432	208	183
150	272	222	272	150 x 12,2	488	719	691	492	227	199
200	330	279	330	200 x 9,1	565	874	837	587	287	250
200	330	279	330	200 x 10,7	640	1001	957	682	319	275
200	330	279	330	200 x 12,2	716	1128	1078	778	350	300
250	394	337	394	250 x 9,1	792	1278	1219	855	423	364
250	394	337	394	250 x 10,7	896	1463	1394	994	469	400
250	394	337	394	250 x 12,2	999	1648	1569	1133	514	435
300	453	397	453	300 x 9,1	1010	1704	1619	1182	522	437
300	453	397	453	300 x 10,7	1144	1954	1855	1375	579	480
300	453	397	453	300 x 12,2	1279	2204	2091	1569	635	522
400	552	493	552	400 x 9,1	1405	2516	2381	1819	697	562
400	552	493	552	400 x 10,7	1595	2891	2733	2117	774	616
400	552	493	552	400 x 12,2	1785	3266	3085	2415	851	670
500	667	598	667	500 x 9,1	2050	3818	3602	2670	1148	932
500	667	598	667	500 x 10,7	2311	4373	4122	3108	1265	1014
500	667	598	667	500 x 12,2	2572	4929	4641	3546	1383	1095
600	788	708	788	600 x 9,1	2814	5394	5079	3750	1644	1330
600	788	708	788	600 x 10,7	3170	6180	5813	4365	1814	1447
600	788	708	788	600 x 12,2	3526	6965	6546	4981	1984	1565

LDP-HS10015C

One End Reinforced Submarine Hose

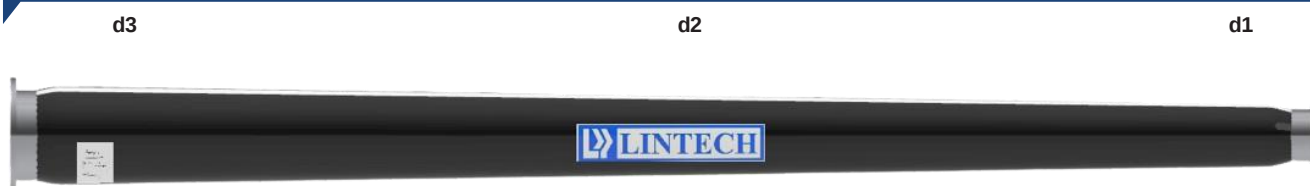
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Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow velocity UP TO Electrically (as requested)	°C	-29; +52
	m/s	21
	Continuous / Discontinuous	

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	d1 (mm)	d2 (mm)	d3 (mm)							
200/150	279	225	272	200/150 x 9,1	431	604	583	385	219	198
200/150	279	225	272	200/150 x 10,7	485	688	663	447	241	216
200/150	279	225	272	200/150 x 12,2	540	771	743	509	262	234
250/200	345	287	330	250/200 x 9,1	630	940	902	619	321	283
250/200	345	287	330	250/200 x 10,7	712	1073	1029	720	353	309
250/200	345	287	330	250/200 x 12,2	794	1206	1156	820	386	335
300/250	409	345	394	300/250 x 9,1	865	1351	1292	893	457	398
300/250	409	345	394	300/250 x 10,7	975	1543	1474	1039	504	434
300/250	409	345	394	300/250 x 12,2	1087	1735	1656	1185	550	471
400/300	460	397	445	400/300 x 9,1	1034	1728	1643	1180	548	464
400/300	460	397	445	400/300 x 10,7	1163	1972	1874	1373	600	501
400/300	460	397	445	400/300 x 12,2	1292	2217	2104	1566	652	539
500/400	572	507	556	500/400 x 9,1	1650	2761	2626	1923	839	703
500/400	572	507	556	500/400 x 10,7	1870	3167	3008	2238	928	770
500/400	572	507	556	500/400 x 12,2	2090	3572	3391	2554	1018	837
600/500	694	616	671	600/500 x 9,1	2322	4090	3874	2830	1259	1044
600/500	694	616	671	600/500 x 10,7	2620	4682	4430	3295	1386	1135
600/500	694	616	671	600/500 x 12,2	2917	5274	4986	3760	1513	1226

LDP-HS10019C

One End Reinforced Submarine Hose

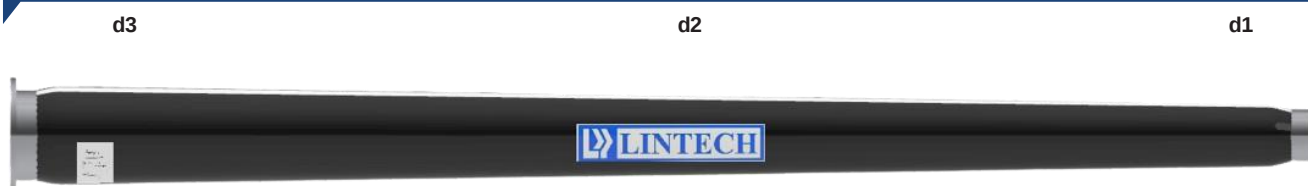
CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure	bar	95
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow	°C	-29; +52
velocity UP TO Electrically	m/s	21
(as requested)	Continuous / Discontinuous	

CHARACTERISTICS



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Submerg. Weight full of water (Kg)	Submerg. Weight full of oil (Kg)
	d1 (mm)	d2 (mm)	d3 (mm)							
200/150	279	225	272	200/150 x 9,1	431	604	583	385	219	198
200/150	279	225	272	200/150 x 10,7	485	688	663	447	241	216
200/150	279	225	272	200/150 x 12,2	540	771	743	509	262	234
250/200	345	287	330	250/200 x 9,1	630	940	902	619	321	283
250/200	345	287	330	250/200 x 10,7	712	1073	1029	720	353	309
250/200	345	287	330	250/200 x 12,2	794	1206	1156	820	386	335
300/250	409	345	394	300/250 x 9,1	880	1366	1307	893	473	413
300/250	409	345	394	300/250 x 10,7	993	1560	1491	1039	521	452
300/250	409	345	394	300/250 x 12,2	1106	1754	1675	1185	570	491
400/300	460	397	445	400/300 x 9,1	1044	1738	1653	1180	558	474
400/300	460	397	445	400/300 x 10,7	1174	1983	1885	1373	611	512
400/300	460	397	445	400/300 x 12,2	1305	2230	2117	1566	664	551
500/400	572	507	556	500/400 x 9,1	1650	2761	2626	1923	839	703
500/400	572	507	556	500/400 x 10,7	1870	3167	3008	2238	928	770
500/400	572	507	556	500/400 x 12,2	2090	3572	3391	2554	1018	837
600/500	694	616	671	600/500 x 9,1	2406	4174	3958	2830	1343	1128
600/500	694	616	671	600/500 x 10,7	2714	4776	4525	3295	1481	1229
600/500	694	616	671	600/500 x 12,2	3022	5378	5091	3760	1618	1331

LDP-HS10021C

Reducer Submarine Hose

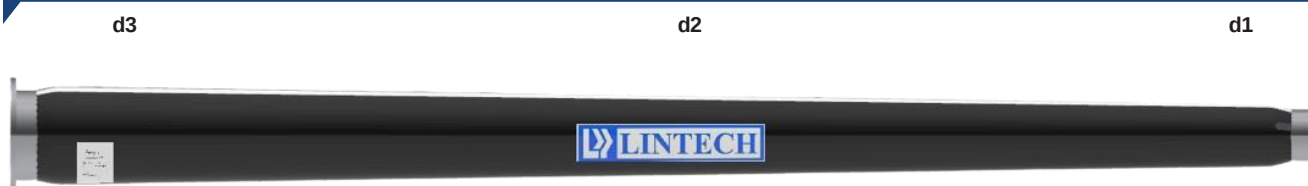
CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure	bar	105
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow velocity UP TO Electrically (as requested)	°C	-29; +52
	m/s	21
	Continuous / Discontinuous	

CHARACTERISTICS



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Submerg. Weight full of water (Kg)	Submerg. Weight full of oil (Kg)
	d1 (mm)	d2 (mm)	d3 (mm)							
200/150	279	225	272	200/150 x 9,1	431	604	583	385	219	198
200/150	279	225	272	200/150 x 10,7	485	688	663	447	241	216
200/150	279	225	272	200/150 x 12,2	540	771	743	509	262	234
250/200	345	287	330	250/200 x 9,1	641	951	913	619	332	294
250/200	345	287	330	250/200 x 10,7	724	1085	1041	720	366	321
250/200	345	287	330	250/200 x 12,2	808	1220	1170	820	400	350
300/250	409	345	394	300/250 x 9,1	880	1366	1307	893	473	413
300/250	409	345	394	300/250 x 10,7	993	1560	1491	1039	521	452
300/250	409	345	394	300/250 x 12,2	1106	1754	1675	1185	570	491
400/300	468	405	453	400/300 x 9,1	1118	1812	1728	1227	585	500
400/300	468	405	453	400/300 x 10,7	1262	2072	1973	1428	644	545
400/300	468	405	453	400/300 x 12,2	1407	2332	2219	1629	703	590
500/400	572	507	556	500/400 x 9,1	1650	2761	2626	1923	839	703
500/400	572	507	556	500/400 x 10,7	1870	3167	3008	2238	928	770
500/400	572	507	556	500/400 x 12,2	2090	3572	3391	2554	1018	837
600/500	694	616	671	600/500 x 9,1	2406	4174	3958	2830	1343	1128
600/500	694	616	671	600/500 x 10,7	2714	4776	4525	3295	1481	1229
600/500	694	616	671	600/500 x 12,2	3022	5378	5091	3760	1618	1331

LDP-HS10015D

Tail Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure	bar	75
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow	°C	-29; +52
velocity UP TO Electrically	m/s	21
(as requested)	Continuous / Discontinuous	

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	279	229	279	150 x 9,1	425	598	577	398	201	179
150	279	229	279	150 x 10,7	482	684	659	462	222	197
150	279	229	279	150 x 12,2	539	770	742	526	243	215
200	337	287	337	200 x 9,1	601	911	873	619	292	254
200	337	287	337	200 x 10,7	683	1044	1000	720	324	280
200	337	287	337	200 x 12,2	765	1178	1127	820	357	307
250	401	345	401	250 x 9,1	833	1320	1260	893	426	367
250	401	345	401	250 x 10,7	945	1512	1443	1039	473	404
250	401	345	401	250 x 12,2	1057	1705	1626	1185	521	441
300	455	400	455	300 x 9,1	1018	1712	1627	1197	515	430
300	455	400	455	300 x 10,7	1153	1963	1864	1393	570	471
300	455	400	455	300 x 12,2	1288	2213	2101	1589	624	512
400	563	504	563	400 x 9,1	1558	2669	2534	1897	772	637
400	563	504	563	400 x 10,7	1775	3071	2913	2208	863	704
400	563	504	563	400 x 12,2	1991	3472	3292	2520	953	772
500	677	607	677	500 x 9,1	2172	3939	3724	2756	1184	968
500	677	607	677	500 x 10,7	2458	4520	4269	3208	1312	1061
500	677	607	677	500 x 12,2	2744	5101	4813	3660	1440	1153

LDP-HS10019D

Tail Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure	bar	95
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow	°C	-29; +52
velocity UP TO Electrically	m/s	21
(as requested)	Continuous / Discontinuous	

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	279	229	279	150 x 9,1	425	598	577	398	201	179
150	279	229	279	150 x 10,7	482	684	659	462	222	197
150	279	229	279	150 x 12,2	539	770	742	526	243	215
200	337	287	337	200 x 9,1	601	911	873	619	292	254
200	337	287	337	200 x 10,7	683	1044	1000	720	324	280
200	337	287	337	200 x 12,2	765	1178	1127	820	357	307
250	401	345	401	250 x 9,1	849	1335	1276	893	441	382
250	401	345	401	250 x 10,7	962	1530	1460	1039	491	421
250	401	345	401	250 x 12,2	1076	1724	1645	1185	540	461
300	455	400	455	300 x 9,1	1028	1722	1637	1197	525	440
300	455	400	455	300 x 10,7	1164	1974	1875	1393	581	482
300	455	400	455	300 x 12,2	1301	2226	2113	1589	637	524
400	563	504	563	400 x 9,1	1558	2669	2534	1897	772	637
400	563	504	563	400 x 10,7	1775	3071	2913	2208	863	704
400	563	504	563	400 x 12,2	1991	3472	3292	2520	953	772
500	677	607	677	500 x 9,1	2255	4022	3807	2756	1267	1051
500	677	607	677	500 x 10,7	2551	4613	4362	3208	1405	1154
500	677	607	677	500 x 12,2	2848	5204	4917	3660	1544	1257

LDP-HS10021D

Tail Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure	bar	105
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow velocity UP TO Electrically (as requested)	°C	-29; +52
	m/s	21
	Continuous / Discontinuous	

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	279	229	279	150 x 9,1	425	598	577	398	201	179
150	279	229	279	150 x 10,7	482	684	659	462	222	197
150	279	229	279	150 x 12,2	539	770	742	526	243	215
200	337	287	337	200 x 9,1	612	922	884	619	303	265
200	337	287	337	200 x 10,7	696	1057	1013	720	337	293
200	337	287	337	200 x 12,2	779	1192	1142	820	371	321
250	401	345	401	250 x 9,1	849	1335	1276	893	441	382
250	401	345	401	250 x 10,7	962	1530	1460	1039	491	421
250	401	345	401	250 x 12,2	1076	1724	1645	1185	540	461
300	463	408	463	300 x 9,1	1103	1797	1713	1245	552	467
300	463	408	463	300 x 10,7	1254	2063	1964	1449	614	515
300	463	408	463	300 x 12,2	1404	2329	2216	1653	676	563
400	563	504	563	400 x 9,1	1558	2669	2534	1897	772	637
400	563	504	563	400 x 10,7	1775	3071	2913	2208	863	704
400	563	504	563	400 x 12,2	1991	3472	3292	2520	953	772
500	677	607	677	500 x 9,1	2255	4022	3807	2756	1267	1051
500	677	607	677	500 x 10,7	2551	4613	4362	3208	1405	1154
500	676,8	607,2	676,8	500 x 12,2	2848	5204	4917	3660	1544	1257

LDP-HS10015E

Tanker Rail Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure	bar	75
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow	°C	-29; +52
velocity UP TO Electrically	m/s	21
(as requested)	Continuous / Discontinuous	

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	279	229	279	150 x 9,1	420	594	573	398	196	175
150	279	229	279	150 x 10,7	477	679	655	462	217	193
150	279	229	279	150 x 12,2	534	765	737	526	239	211
200	337	287	337	200 x 9,1	594	904	866	619	285	247
200	337	287	337	200 x 10,7	676	1037	993	720	317	273
200	337	287	337	200 x 12,2	758	1171	1120	820	350	300
250	401	345	401	250 x 9,1	823	1309	1250	893	415	356
250	401	345	401	250 x 10,7	934	1502	1432	1039	463	393
250	401	345	401	250 x 12,2	1046	1694	1615	1185	510	431
300	455	400	455	300 x 9,1	1003	1697	1613	1197	500	415
300	455	400	455	300 x 10,7	1139	1948	1849	1393	555	456
300	455	400	455	300 x 12,2	1274	2199	2086	1589	610	497
400	563	504	563	400 x 9,1	1538	2649	2514	1897	752	617
400	563	504	563	400 x 10,7	1754	3051	2893	2208	842	684
400	563	504	563	400 x 12,2	1971	3452	3271	2520	932	752
500	677	607	677	500 x 9,1	2139	3907	3691	2756	1151	936
500	677	607	677	500 x 10,7	2426	4488	4236	3208	1280	1028
500	677	607	677	500 x 12,2	2712	5068	4781	3660	1408	1120

LDP-HS10019E

Tanker Rail Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure	bar	95
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow velocity UP TO Electrically (as requested)	°C	-29; +52
	m/s	21
	Continuous / Discontinuous	

CHARACTERISTICS

d3

d2

d1



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Submerg. Weight full of water (Kg)	Submerg. Weight full of oil (Kg)
	d1 (mm)	d2 (mm)	d3 (mm)							
150	279	229	279	150 x 9,1	420	594	573	398	196	175
150	279	229	279	150 x 10,7	477	679	655	462	217	193
150	279	229	279	150 x 12,2	534	765	737	526	239	211
200	337	287	337	200 x 9,1	594	904	866	619	285	247
200	337	287	337	200 x 10,7	676	1037	993	720	317	273
200	337	287	337	200 x 12,2	758	1171	1120	820	350	300
250	401	345	401	250 x 9,1	838	1324	1265	893	431	371
250	401	345	401	250 x 10,7	952	1519	1450	1039	480	411
250	401	345	401	250 x 12,2	1065	1714	1635	1185	529	450
300	455	400	455	300 x 9,1	1013	1707	1623	1197	510	425
300	455	400	455	300 x 10,7	1150	1959	1860	1393	566	467
300	455	400	455	300 x 12,2	1286	2211	2098	1589	622	509
400	563	504	563	400 x 9,1	1538	2649	2514	1897	752	617
400	563	504	563	400 x 10,7	1754	3051	2893	2208	842	684
400	563	504	563	400 x 12,2	1971	3452	3271	2520	932	752
500	677	607	677	500 x 9,1	2223	3990	3774	2756	1234	1019
500	677	607	677	500 x 10,7	2519	4581	4330	3208	1373	1122
500	677	607	677	500 x 12,2	2815	5172	4885	3660	1512	1224

LDP-HS10021E

Tanker Rail Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure	bar	105
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow	°C	-29; +52
velocity UP TO Electrically	m/s	21
(as requested)	Continuous / Discontinuous	

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	279	229	279	150 x 9,1	420	594	573	398	196	175
150	279	229	279	150 x 10,7	477	679	655	462	217	193
150	279	229	279	150 x 12,2	534	765	737	526	239	211
200	337	287	337	200 x 9,1	605	915	877	619	296	258
200	337	287	337	200 x 10,7	689	1050	1006	720	330	286
200	337	287	337	200 x 12,2	772	1185	1135	820	364	314
250	401	345	401	250 x 9,1	838	1324	1265	893	431	371
250	401	345	401	250 x 10,7	952	1519	1450	1039	480	411
250	401	345	401	250 x 12,2	1065	1714	1635	1185	529	450
300	463	408	463	300 x 9,1	1089	1782	1698	1245	537	452
300	463	408	463	300 x 10,7	1239	2048	1950	1449	599	501
300	463	408	463	300 x 12,2	1389	2314	2202	1653	661	549
400	563	504	563	400 x 9,1	1538	2649	2514	1897	752	617
400	563	504	563	400 x 10,7	1754	3051	2893	2208	842	684
400	563	504	563	400 x 12,2	1971	3452	3271	2520	932	752
500	677	607	677	500 x 9,1	2223	3990	3774	2756	1234	1019
500	677	607	677	500 x 10,7	2519	4581	4330	3208	1373	1122
500	677	607	677	500 x 12,2	2815	5172	4885	3660	1512	1224

LDP-HS10015F

Fully Reinforced Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure	bar	75
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow velocity UP TO Electrically (as requested)	°C	-29; +52
	m/s	21
	Continuous / Discontinuous	

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	279	229	279	150 x 9,1	425	598	577	398	201	179
150	279	229	279	150 x 10,7	482	684	659	462	222	197
150	279	229	279	150 x 12,2	539	770	742	526	243	215
200	345	294	345	200 x 9,1	650	959	921	652	307	270
200	345	294	345	200 x 10,7	740	1101	1057	758	343	299
200	345	294	345	200 x 12,2	830	1243	1193	864	379	328
250	409	352	409	250 x 9,1	892	1378	1319	933	445	386
250	409	352	409	250 x 10,7	1013	1581	1512	1085	496	427
250	409	352	409	250 x 12,2	1135	1784	1705	1237	546	467
300	460	404	460	300 x 9,1	1056	1749	1665	1225	525	440
300	460	404	460	300 x 10,7	1197	2006	1908	1425	581	483
300	460	404	460	300 x 12,2	1339	2264	2151	1626	638	525
400	572	515	572	400 x 9,1	1647	2758	2623	1980	778	642
400	572	515	572	400 x 10,7	1879	3175	3017	2306	869	711
400	572	515	572	400 x 12,2	2111	3592	3411	2631	961	780
500	694	627	694	500 x 9,1	2361	4129	3913	2935	1194	978
500	694	627	694	500 x 10,7	2680	4742	4491	3418	1325	1073
500	694	627	694	500 x 12,2	2999	5356	5068	3900	1456	1168
600	825	747	825	600 x 9,1	3345	5925	5610	4169	1756	1442
600	825	747	825	600 x 10,7	3797	6807	6440	4854	1953	1586
600	825	747	825	600 x 12,2	4249	7689	7270	5539	2150	1730

LDP-HS10019F

Fully Reinforced Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure	bar	95
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow velocity UP TO Electrically (as requested)	°C	-29; +52
	m/s	21
	Continuous / Discontinuous	

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
	(mm)	(mm)	(mm)		(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	279	229	279	150 x 9,1	425	598	577	398	201	179
150	279	229	279	150 x 10,7	482	684	659	462	222	197
150	279	229	279	150 x 12,2	539	770	742	526	243	215
200	345	294	345	200 x 9,1	650	959	921	652	307	270
200	345	294	345	200 x 10,7	740	1101	1057	758	343	299
200	345	294	345	200 x 12,2	830	1243	1193	864	379	328
250	409	352	409	250 x 9,1	907	1393	1334	933	460	401
250	409	352	409	250 x 10,7	1031	1598	1529	1085	513	444
250	409	352	409	250 x 12,2	1154	1803	1724	1237	566	486
300	460	404	460	300 x 9,1	1065	1759	1675	1225	534	450
300	460	404	460	300 x 10,7	1208	2018	1919	1425	592	494
300	460	404	460	300 x 12,2	1351	2276	2163	1626	650	538
400	572	515	572	400 x 9,1	1647	2758	2623	1980	778	642
400	572	515	572	400 x 10,7	1879	3175	3017	2306	869	711
400	572	515	572	400 x 12,2	2111	3592	3411	2631	961	780
500	694	627	694	500 x 9,1	2445	4213	3997	2935	1278	1062
500	694	627	694	500 x 10,7	2775	4837	4585	3418	1419	1168
500	694	627	694	500 x 12,2	3104	5461	5173	3900	1561	1273
600	825	747	825	600 x 9,1	3345	5925	5610	4169	1756	1442
600	825	747	825	600 x 10,7	3797	6807	6440	4854	1953	1586
600	825	747	825	600 x 12,2	4249	7689	7270	5539	2150	1730

LDP-HS10021F

Fully Reinforced Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure	bar	105
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow velocity UP TO Electrically (as requested)	°C	-29; +52
	m/s	21
	Continuous / Discontinuous	

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	279	229	279	150 x 9,1	425	598	577	398	201	179
150	279	229	279	150 x 10,7	482	684	659	462	222	197
150	279	229	279	150 x 12,2	539	770	742	526	243	215
200	345	294	345	200 x 9,1	661	970	932	652	318	281
200	345	294	345	200 x 10,7	753	1114	1070	758	356	312
200	345	294	345	200 x 12,2	845	1257	1207	864	393	343
250	409	352	409	250 x 9,1	907	1393	1334	933	460	401
250	409	352	409	250 x 10,7	1031	1598	1529	1085	513	444
250	409	352	409	250 x 12,2	1154	1803	1724	1237	566	486
300	468	412	468	300 x 9,1	1141	1835	1751	1273	562	477
300	468	412	468	300 x 10,7	1298	2108	2009	1482	626	527
300	468	412	468	300 x 12,2	1455	2380	2267	1690	690	577
400	572	515	572	400 x 9,1	1647	2758	2623	1980	778	642
400	572	515	572	400 x 10,7	1879	3175	3017	2306	869	711
400	572	515	572	400 x 12,2	2111	3592	3411	2631	961	780
500	694	627	694	500 x 9,1	2445	4213	3997	2935	1278	1062
500	694	627	694	500 x 10,7	2775	4837	4585	3418	1419	1168
500	694	627	694	500 x 12,2	3104	5461	5173	3900	1561	1273
600	825	747	825	600 x 9,1	3483	6063	5748	4169	1894	1579
600	825	747	825	600 x 10,7	3954	6964	6597	4854	2110	1743
600	825	747	825	600 x 12,2	4425	7865	7445	5539	2325	1906

LDP-HF10015G

One End Reinforced Half Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure	bar	75
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)	Continuous / Discontinuous	

CHARACTERISTICS



No-min. Diam. (mm)	Hose O.D.				Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displacement (Kg)	Net buoyancy full of oil (Kg)	Net buoyancy full of water (Kg)	R.B. full of oil (%)	R.B. full of water (%)
	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)									
150	347	397	237	287	150 x 9,1	513	686	665	654	686	665	-2	-5
150	347	397	237	287	150 x 10,7	583	785	760	762	785	760	0	-3
150	347	397	237	287	150 x 12,2	653	884	856	871	884	856	2	-1
200	440	491	302	353	200 x 9,1	740	1047	1010	1056	1047	1010	5	1
200	440	491	302	353	200 x 10,7	842	1201	1157	1230	1201	1157	6	2
200	440	491	302	353	200 x 12,2	945	1356	1305	1405	1356	1305	8	4
250	498	555	360	417	250 x 9,1	991	1475	1416	1398	1475	1416	-1	-5
250	498	555	360	417	250 x 10,7	1126	1690	1621	1630	1690	1621	1	-4
250	498	555	360	417	250 x 12,2	1261	1907	1828	1862	1907	1828	2	-2
300	586	642	412	468	300 x 9,1	1171	1864	1779	1898	1864	1779	7	2
300	586	642	412	468	300 x 10,7	1330	2138	2040	2213	2138	2040	9	4
300	586	642	412	468	300 x 12,2	1490	2413	2301	2528	2413	2301	10	5
400	733	789	523	580	400 x 9,1	1851	2966	2830	3037	2966	2830	7	2
400	733	789	523	580	400 x 10,7	2112	3413	3254	3535	3413	3254	9	4
400	733	789	523	580	400 x 12,2	2373	3860	3679	4032	3860	3679	10	4
500	873	940	635	702	500 x 9,1	2577	4350	4134	4368	4350	4134	6	0
500	873	940	635	702	500 x 10,7	2926	4994	4742	5083	4994	4742	7	2
500	873	940	635	702	500 x 12,2	3275	5638	5350	5798	5638	5350	8	3
600	1022	1099	755	833	600 x 9,1	3532	6118	5803	6047	6118	5803	4	-1
600	1022	1099	755	833	600 x 10,7	4010	7027	6659	7037	7027	6659	6	0
600	1022	1099	755	833	600 x 12,2	4489	7936	7516	8027	7936	7516	7	1

LDP-HF10019G

One End Reinforced Half Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure	bar	95
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow	°C	-29; +52
velocity UP TO Electrically	m/s	21
(as requested)		Continuous / Discontinuous

CHARACTERISTICS



No-min. Diam. (mm)	Hose O.D.				Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displacement (Kg)	Net buoyancy full of oil (Kg)	Net buoyancy full of water (Kg)	R.B. full of oil (%)	R.B. full of water (%)
	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)									
150	347	397	237	287	150 x 9,1	513	686	665	654	686	665	-2	-5
150	347	397	237	287	150 x 10,7	583	785	760	762	785	760	0	-3
150	347	397	237	287	150 x 12,2	653	884	856	871	884	856	2	-1
200	440	491	302	353	200 x 9,1	740	1047	1010	1056	1047	1010	5	1
200	440	491	302	353	200 x 10,7	842	1201	1157	1230	1201	1157	6	2
200	440	491	302	353	200 x 12,2	945	1356	1305	1405	1356	1305	8	4
250	498	555	360	417	250 x 9,1	1006	1490	1431	1398	1490	1431	-2	-6
250	498	555	360	417	250 x 10,7	1143	1707	1639	1630	1707	1639	-1	-5
250	498	555	360	417	250 x 12,2	1280	1926	1847	1862	1926	1847	1	-3
300	586	642	412	468	300 x 9,1	1181	1874	1789	1898	1874	1789	6	1
300	586	642	412	468	300 x 10,7	1341	2149	2051	2213	2149	2051	8	3
300	586	642	412	468	300 x 12,2	1502	2426	2313	2528	2426	2313	9	4
400	733	789	523	580	400 x 9,1	1851	2966	2830	3037	2966	2830	7	2
400	733	789	523	580	400 x 10,7	2112	3413	3254	3535	3413	3254	9	4
400	733	789	523	580	400 x 12,2	2373	3860	3679	4032	3860	3679	10	4
500	873	940	635	702	500 x 9,1	2661	4434	4218	4368	4434	4218	4	-1
500	873	940	635	702	500 x 10,7	3021	5089	4836	5083	5089	4836	5	0
500	873	940	635	702	500 x 12,2	3380	5743	5455	5798	5743	5455	6	1
600	1022	1099	755	833	600 x 9,1	3532	6118	5803	6047	6118	5803	4	-1
600	1022	1099	755	833	600 x 10,7	4010	7027	6659	7037	7027	6659	6	0
600	1022	1099	755	833	600 x 12,2	4489	7936	7516	8027	7936	7516	7	1

LDP-HF10021G

One End Reinforced Half Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure	bar	105
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)	Continuous / Discontinuous	

CHARACTERISTICS



No-min. Diam. (mm)	Hose O.D.				Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displacement (Kg)	Net buoyancy full of oil (Kg)	Net buoyancy full of water (Kg)	R.B. full of oil (%)	R.B. full of water (%)
	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)									
150	347	397	237	287	150 x 9,1	513	686	665	654	686	665	-2	-5
150	347	397	237	287	150 x 10,7	583	785	760	762	785	760	0	-3
150	347	397	237	287	150 x 12,2	653	884	856	871	884	856	2	-1
200	440	491	302	353	200 x 9,1	751	1058	1021	1056	1058	1021	3	0
200	440	491	302	353	200 x 10,7	855	1214	1170	1230	1214	1170	5	1
200	440	491	302	353	200 x 12,2	959	1370	1320	1405	1370	1320	7	3
250	498	555	360	417	250 x 9,1	1006	1490	1431	1398	1490	1431	-2	-6
250	498	555	360	417	250 x 10,7	1143	1707	1639	1630	1707	1639	-1	-5
250	498	555	360	417	250 x 12,2	1280	1926	1847	1862	1926	1847	1	-3
300	594	650	420	476	300 x 9,1	1258	1951	1866	1957	1951	1866	5	0
300	594	650	420	476	300 x 10,7	1433	2240	2142	2282	2240	2142	7	2
300	594	650	420	476	300 x 12,2	1608	2531	2418	2607	2531	2418	8	3
400	733	789	523	580	400 x 9,1	1851	2966	2830	3037	2966	2830	7	2
400	733	789	523	580	400 x 10,7	2112	3413	3254	3535	3413	3254	9	4
400	733	789	523	580	400 x 12,2	2373	3860	3679	4032	3860	3679	10	4
500	873	940	635	702	500 x 9,1	2661	4434	4218	4368	4434	4218	4	-1
500	873	940	635	702	500 x 10,7	3021	5089	4836	5083	5089	4836	5	0
500	873	940	635	702	500 x 12,2	3380	5743	5455	5798	5743	5455	6	1
600	1022	1099	755	833	600 x 9,1	3670	6256	5941	6047	6256	5941	2	-3
600	1022	1099	755	833	600 x 10,7	4167	7184	6816	7037	7184	6816	3	-2
600	1022	1099	755	833	600 x 12,2	4664	8112	7692	8027	8112	7692	4	-1

LDP-HF10015H

Mainline Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure	bar	75
Minimum Bending Radius		6 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO Electrically (as requested)	m/s	21
		Continuous / Discontinuous

CHARACTERISTICS

d3

d2

d1



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Net buoy- ancy full of water (Kg)	Net buoy- ancy full of oil (Kg)	R.B. full of oil (%)	R.B. full of wa- ter (%)
	d1 (mm)	d2 (mm)	d3 (mm)									
150	423	373	423	150 x 9,1	532	705	684	1004	299	320	47	42
150	423	373	423	150 x 10,7	606	808	783	1174	366	391	50	45
150	423	373	423	150 x 12,2	680	911	883	1345	434	462	52	48
200	517	466	517	200 x 9,1	755	1063	1026	1559	496	534	52	47
200	517	466	517	200 x 10,7	863	1222	1178	1826	604	648	55	49
200	517	466	517	200 x 12,2	969	1380	1330	2093	713	763	57	52
250	581	524	581	250 x 9,1	998	1482	1423	1975	493	552	39	33
250	581	524	581	250 x 10,7	1137	1702	1633	2312	610	679	42	36
250	581	524	581	250 x 12,2	1276	1921	1842	2649	728	807	44	38
300	668	612	668	300 x 9,1	1200	1893	1808	2674	781	866	48	41
300	668	612	668	300 x 10,7	1366	2174	2075	3134	960	1058	51	44
300	668	612	668	300 x 12,2	1530	2453	2341	3593	1140	1252	54	46
400	811	752	811	400 x 9,1	1785	2900	2764	4032	1132	1268	46	39
400	811	752	811	400 x 10,7	2038	3339	3181	4726	1387	1545	49	42
400	811	752	811	400 x 12,2	2290	3777	3595	5420	1643	1824	51	43
500	962	892	962	500 x 9,1	2439	4212	3995	5673	1461	1677	42	35
500	962	892	962	500 x 10,7	2769	4837	4585	6649	1813	2065	45	37
500	962	892	962	500 x 12,2	3097	5460	5172	7626	2166	2454	47	40
600	1119	1040	1119	600 x 9,1	3288	5874	5558	7702	1829	2144	39	31
600	1119	1040	1119	600 x 10,7	3727	6744	6376	9028	2285	2653	42	34
600	1119	1040	1119	600 x 12,2	4163	7611	7191	10354	2743	3164	44	36



LDP-HF10019H

Mainline Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure	bar	95
Minimum Bending Radius		6 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO Electrically (as requested)	m/s	21
		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Net buoy- ancy full of water (Kg)	Net buoy- ancy full of oil (Kg)	R.B. full of oil (%)	R.B. full of wa- ter (%)
	d1 (mm)	d2 (mm)	d3 (mm)									
150	423	373	423	150 x 9,1	532	705	684	1004	299	320	47	42
150	423	373	423	150 x 10,7	606	808	783	1174	366	391	50	45
150	423	373	423	150 x 12,2	680	911	883	1345	434	462	52	48
200	517	466	517	200 x 9,1	755	1063	1026	1559	496	534	52	47
200	517	466	517	200 x 10,7	863	1222	1178	1826	604	648	55	49
200	517	466	517	200 x 12,2	969	1380	1330	2093	713	763	57	52
250	581	524	581	250 x 9,1	1013	1497	1438	1975	477	536	37	32
250	581	524	581	250 x 10,7	1155	1719	1650	2312	593	662	40	34
250	581	524	581	250 x 12,2	1295	1940	1861	2649	709	788	42	37
300	668	612	668	300 x 9,1	1210	1903	1818	2674	772	856	47	41
300	668	612	668	300 x 10,7	1377	2185	2086	3134	949	1047	50	43
300	668	612	668	300 x 12,2	1543	2466	2353	3593	1127	1240	53	46
400	811	752	811	400 x 9,1	1785	2900	2764	4032	1132	1268	46	39
400	811	752	811	400 x 10,7	2038	3339	3181	4726	1387	1545	49	42
400	811	752	811	400 x 12,2	2290	3777	3595	5420	1643	1824	51	43
500	962	892	962	500 x 9,1	2522	4295	4078	5673	1378	1594	39	32
500	962	892	962	500 x 10,7	2862	4930	4678	6649	1719	1971	42	35
500	962	892	962	500 x 12,2	3200	5564	5276	7626	2062	2351	45	37
600	1119	1040	1119	600 x 9,1	3288	5874	5558	7702	1829	2144	39	31
600	1119	1040	1119	600 x 10,7	3727	6744	6376	9028	2285	2653	42	34
600	1119	1040	1119	600 x 12,2	4163	7611	7191	10354	2743	3164	44	36

LDP-HF10021H

Mainline Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure	bar	105
Minimum Bending Radius		6 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO Electrically (as requested)	m/s	21
		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Net buoy- ancy full of water (Kg)	Net buoy- ancy full of oil (Kg)	R.B. full of oil (%)	R.B. full of wa- ter (%)
	d1 (mm)	d2 (mm)	d3 (mm)									
150	423	373	423	150 x 9,1	532	705	684	1004	299	320	47	42
150	423	373	423	150 x 10,7	606	808	783	1174	366	391	50	45
150	423	373	423	150 x 12,2	680	911	883	1345	434	462	52	48
200	517	466	517	200 x 9,1	766	1074	1037	1559	485	523	50	45
200	517	466	517	200 x 10,7	875	1234	1191	1826	591	635	53	48
200	517	466	517	200 x 12,2	983	1394	1344	2093	699	749	56	50
250	581	524	581	250 x 9,1	1013	1497	1438	1975	477	536	37	32
250	581	524	581	250 x 10,7	1155	1719	1650	2312	593	662	40	34
250	581	524	581	250 x 12,2	1295	1940	1861	2649	709	788	42	37
300	676	620	676	300 x 9,1	1286	1979	1894	2745	767	851	45	39
300	676	620	676	300 x 10,7	1467	2275	2177	3217	942	1041	48	41
300	676	620	676	300 x 12,2	1647	2570	2457	3689	1119	1231	50	44
400	811	752	811	400 x 9,1	1785	2900	2764	4032	1132	1268	46	39
400	811	752	811	400 x 10,7	2038	3339	3181	4726	1387	1545	49	42
400	811	752	811	400 x 12,2	2290	3777	3595	5420	1643	1824	51	43
500	962	892	962	500 x 9,1	2522	4295	4078	5673	1378	1594	39	32
500	962	892	962	500 x 10,7	2862	4930	4678	6649	1719	1971	42	35
500	962	892	962	500 x 12,2	3200	5564	5276	7626	2062	2351	45	37
600	1119	1040	1119	600 x 9,1	3424	6010	5695	7702	1692	2008	35	28
600	1119	1040	1119	600 x 10,7	3882	6899	6531	9028	2130	2498	38	31
600	1119	1040	1119	600 x 12,2	4337	7785	7364	10354	2570	2990	41	33

LDP-HF10015I

Reducer Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure	bar	75
Minimum Bending Radius		6 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow	°C	-29; +52
velocity UP TO Electrically	m/s	21
(as requested)		Continuous / Discontinuous

CHARACTERISTICS

d3

d2

d1



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Net buoyan- cy full of water (Kg)	Net buoy- ancy full of oil (Kg)	R.B. full of oil (%)	R.B. full of wa- ter (%)
	d1 (mm)	d2 (mm)	d3 (mm)									
200/150	427	377	427	200/150 x 9,1	575	748	727	1024	276	297	41	37
200/150	427	377	427	200/150 x 10,7	654	856	831	1198	343	367	44	40
200/150	427	377	427	200/150 x 12,2	732	963	934	1373	410	438	47	43
250/200	489	438	489	250/200 x 9,1	800	1108	1071	1385	277	315	29	25
250/200	489	438	489	250/200 x 10,7	910	1269	1225	1621	352	395	32	28
250/200	489	438	489	250/200 x 12,2	1020	1430	1380	1856	426	476	35	30
300/250	588	532	588	300/250 x 9,1	1087	1571	1512	2033	462	521	34	29
300/250	588	532	588	300/250 x 10,7	1235	1799	1731	2380	581	650	38	32
300/250	588	532	588	300/250 x 12,2	1382	2028	1949	2727	699	778	40	34
400/300	639	584	639	400/300 x 9,1	1271	1963	1879	2449	486	570	30	25
400/300	639	584	639	400/300 x 10,7	1440	2248	2149	2868	620	719	33	28
400/300	639	584	639	400/300 x 12,2	1608	2531	2418	3286	755	867	36	30
500/400	787	730	787	500/400 x 9,1	1990	3105	2969	3825	720	856	29	23
500/400	787	730	787	500/400 x 10,7	2268	3568	3410	4480	911	1070	31	26
500/400	787	730	787	500/400 x 12,2	2543	4030	3848	5134	1104	1286	33	27
600/500	941	874	941	600/500 x 9,1	2750	4523	4306	5478	956	1172	27	21
600/500	941	874	941	600/500 x 10,7	3119	5187	4935	6416	1229	1481	30	24
600/500	941	874	941	600/500 x 12,2	3486	5850	5561	7354	1505	1793	32	26

LDP-HF10019I

Reducer Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure	bar	95
Minimum Bending Radius		6 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow	°C	-29; +52
velocity UP TO Electrically	m/s	21
(as requested)	Continuous / Discontinuous	

CHARACTERISTICS

d3

d2

d1



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Net buoy- ancy full of water (Kg)	Net buoy- ancy full of oil (Kg)	R.B. full of oil (%)	R.B. full of wa- ter (%)
	d1 (mm)	d2 (mm)	d3 (mm)									
200/150	427	377	427	200/150 x 9,1	575	748	727	1024	276	297	41	37
200/150	427	377	427	200/150 x 10,7	654	856	831	1198	343	367	44	40
200/150	427	377	427	200/150 x 12,2	732	963	934	1373	410	438	47	43
250/200	489	438	489	250/200 x 9,1	800	1108	1071	1385	277	315	29	25
250/200	489	438	489	250/200 x 10,7	910	1269	1225	1621	352	395	32	28
250/200	489	438	489	250/200 x 12,2	1020	1430	1380	1856	426	476	35	30
300/250	588	532	588	300/250 x 9,1	1102	1586	1527	2033	447	506	33	28
300/250	588	532	588	300/250 x 10,7	1252	1817	1748	2380	564	632	36	31
300/250	588	532	588	300/250 x 12,2	1402	2047	1968	2727	680	759	39	33
400/300	639	584	639	400/300 x 9,1	1281	1973	1889	2449	476	561	30	24
400/300	639	584	639	400/300 x 10,7	1451	2259	2160	2868	609	707	33	27
400/300	639	584	639	400/300 x 12,2	1620	2543	2431	3286	742	855	35	29
500/400	787	730	787	500/400 x 9,1	1990	3105	2969	3825	720	856	29	23
500/400	787	730	787	500/400 x 10,7	2268	3568	3410	4480	911	1070	31	26
500/400	787	730	787	500/400 x 12,2	2543	4030	3848	5134	1104	1286	33	27
600/500	941	874	941	600/500 x 9,1	2834	4607	4390	5478	872	1088	25	20
600/500	941	874	941	600/500 x 10,7	3214	5282	5030	6416	1135	1387	28	21
600/500	941	874	941	600/500 x 12,2	3591	5955	5666	7354	1400	1688	30	24

LDP-HF10021I

Reducer Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure	bar	105
Minimum Bending Radius		6 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow	°C	-29; +52
velocity UP TO Electrically	m/s	21
(as requested)		Continuous / Discontinuous

CHARACTERISTICS

d3

d2

d1



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Net buoy- ancy full of water (Kg)	Net buoy- ancy full of oil (Kg)	R.B. full of oil (%)	R.B. full of wa- ter (%)
	d1 (mm)	d2 (mm)	d3 (mm)									
200/150	427	377	427	200/150 x 9,1	575	748	727	1024	276	297	41	37
200/150	427	377	427	200/150 x 10,7	654	856	831	1198	343	367	44	40
200/150	427	377	427	200/150 x 12,2	732	963	934	1373	410	438	47	43
250/200	489	438	489	250/200 x 9,1	811	1119	1082	1385	266	304	28	24
250/200	489	438	489	250/200 x 10,7	923	1282	1238	1621	339	383	31	26
250/200	489	438	489	250/200 x 12,2	1034	1444	1394	1856	412	462	33	29
300/250	588	532	588	300/250 x 9,1	1102	1586	1527	2033	447	506	33	28
300/250	588	532	588	300/250 x 10,7	1252	1817	1748	2380	564	632	36	31
300/250	588	532	588	300/250 x 12,2	1402	2047	1968	2727	680	759	39	33
400/300	647	592	647	400/300 x 9,1	1358	2050	1966	2518	468	552	28	23
400/300	647	592	647	400/300 x 10,7	1542	2350	2251	2947	598	696	31	25
400/300	647	592	647	400/300 x 12,2	1725	2649	2536	3377	729	841	33	28
500/400	787	730	787	500/400 x 9,1	1990	3105	2969	3825	720	856	29	23
500/400	787	730	787	500/400 x 10,7	2268	3568	3410	4480	911	1070	31	26
500/400	787	730	787	500/400 x 12,2	2543	4030	3848	5134	1104	1286	33	27
600/500	941	874	941	600/500 x 9,1	2834	4607	4390	5478	872	1088	25	20
600/500	941	874	941	600/500 x 10,7	3214	5282	5030	6416	1135	1387	28	21
600/500	941	874	941	600/500 x 12,2	3591	5955	5666	7354	1400	1688	30	24

LDP-HF10015J

Tail Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure	bar	75
Minimum Bending Radius		6 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow	°C	-29; +52
velocity UP TO Electrically	m/s	21
(as requested)	Continuous / Discontinuous	

CHARACTERISTICS



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Net buoy- ancy full of water (Kg)	Net buoy- ancy full of oil (Kg)	R.B. full of oil (%)	R.B. full of wa- ter (%)
	d1 (mm)	d2 (mm)	d3 (mm)									
150	431	381	431	150 x 9,1	571	744	723	1045	301	322	44	40
150	431	381	431	150 x 10,7	653	854	830	1223	368	393	47	43
150	431	381	431	150 x 12,2	733	964	936	1401	437	465	50	45
200	524	474	524	200 x 9,1	805	1113	1075	1611	498	536	50	45
200	524	474	524	200 x 10,7	921	1280	1236	1886	607	650	53	47
200	524	474	524	200 x 12,2	1036	1446	1396	2162	716	766	55	49
250	588	532	588	250 x 9,1	1058	1541	1482	2033	492	551	37	32
250	588	532	588	250 x 10,7	1207	1771	1703	2380	609	678	40	34
250	588	532	588	250 x 12,2	1355	2000	1922	2727	727	805	42	36
300	678	623	678	300 x 9,1	1295	1988	1903	2769	781	865	45	39
300	678	623	678	300 x 10,7	1477	2285	2187	3244	959	1058	48	42
300	678	623	678	300 x 12,2	1658	2581	2468	3720	1139	1252	51	44
400	822	763	822	400 x 9,1	1943	3058	2922	4148	1091	1227	42	36
400	822	763	822	400 x 10,7	2223	3524	3365	4862	1338	1496	44	38
400	822	763	822	400 x 12,2	2502	3989	3808	5575	1586	1768	46	40
500	971	902	971	500 x 9,1	2648	4421	4205	5797	1376	1593	38	31
500	971	902	971	500 x 10,7	3014	5082	4830	6795	1713	1965	41	34
500	971	902	971	500 x 12,2	3378	5741	5453	7793	2052	2340	43	36

LDP-HF10019J

Tail Full Floating Hose

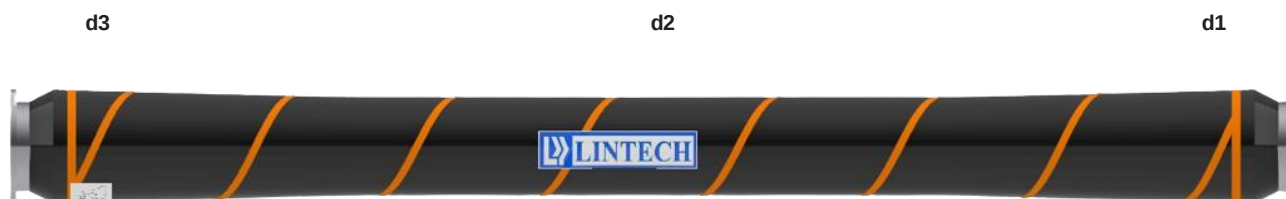
CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure	bar	95
Minimum Bending Radius		6 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow	°C	-29; +52
velocity UP TO Electrically	m/s	21
(as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Net buoy- ancy full of water (Kg)	Net buoy- ancy full of oil (Kg)	R.B. full of oil (%)	R.B. full of wa- ter (%)
	d1 (mm)	d2 (mm)	d3 (mm)									
150	431	381	431	150 x 9,1	571	744	723	1045	301	322	44	40
150	431	381	431	150 x 10,7	653	854	830	1223	368	393	47	43
150	431	381	431	150 x 12,2	733	964	936	1401	437	465	50	45
200	524	474	524	200 x 9,1	805	1113	1075	1611	498	536	50	45
200	524	474	524	200 x 10,7	921	1280	1236	1886	607	650	53	47
200	524	474	524	200 x 12,2	1036	1446	1396	2162	716	766	55	49
250	588	532	588	250 x 9,1	1073	1557	1498	2033	476	535	36	31
250	588	532	588	250 x 10,7	1224	1789	1720	2380	592	660	38	33
250	588	532	588	250 x 12,2	1374	2020	1941	2727	708	786	41	35
300	678	623	678	300 x 9,1	1305	1998	1913	2769	771	856	45	39
300	678	623	678	300 x 10,7	1488	2296	2198	3244	948	1047	48	41
300	678	623	678	300 x 12,2	1670	2593	2481	3720	1127	1239	50	43
400	822	763	822	400 x 9,1	1943	3058	2922	4148	1091	1227	42	36
400	822	763	822	400 x 10,7	2223	3524	3365	4862	1338	1496	44	38
400	822	763	822	400 x 12,2	2502	3989	3808	5575	1586	1768	46	40
500	971	902	971	500 x 9,1	2731	4504	4288	5797	1293	1510	35	29
500	971	902	971	500 x 10,7	3108	5176	4923	6795	1620	1872	38	31
500	971	902	971	500 x 12,2	3482	5845	5557	7793	1948	2236	40	33

LDP-HF10021J

Tail Full Floating Hose

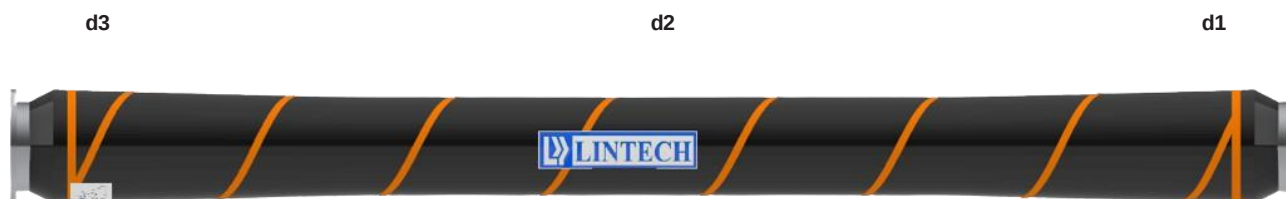
CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure	bar	105
Minimum Bending Radius		6 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow	°C	-29; +52
velocity UP TO Electrically	m/s	21
(as requested)	Continuous / Discontinuous	

CHARACTERISTICS



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Net buoy- ancy full of water (Kg)	Net buoy- ancy full of oil (Kg)	R.B. full of oil (%)	R.B. full of wa- ter (%)
	d1 (mm)	d2 (mm)	d3 (mm)									
150	431	381	431	150 x 9,1	571	744	723	1045	301	322	44	40
150	431	381	431	150 x 10,7	653	854	830	1223	368	393	47	43
150	431	381	431	150 x 12,2	733	964	936	1401	437	465	50	45
200	524	474	524	200 x 9,1	816	1124	1086	1611	487	525	48	43
200	524	474	524	200 x 10,7	933	1292	1249	1886	594	638	51	46
200	524	474	524	200 x 12,2	1050	1460	1410	2162	701	752	53	48
250	588	532	588	250 x 9,1	1073	1557	1498	2033	476	535	36	31
250	588	532	588	250 x 10,7	1224	1789	1720	2380	592	660	38	33
250	588	532	588	250 x 12,2	1374	2020	1941	2727	708	786	41	35
300	686	631	686	300 x 9,1	1383	2076	1991	2841	766	850	43	37
300	686	631	686	300 x 10,7	1581	2389	2290	3329	941	1039	45	39
300	686	631	686	300 x 12,2	1777	2700	2588	3817	1117	1229	48	41
400	822	763	822	400 x 9,1	1943	3058	2922	4148	1091	1227	42	36
400	822	763	822	400 x 10,7	2223	3524	3365	4862	1338	1496	44	38
400	822	763	822	400 x 12,2	2502	3989	3808	5575	1586	1768	46	40
500	971	902	971	500 x 9,1	2731	4504	4288	5797	1293	1510	35	29
500	971	902	971	500 x 10,7	3108	5176	4923	6795	1620	1872	38	31
500	971	902	971	500 x 12,2	3482	5845	5557	7793	1948	2236	40	33

LDP-HF10015K

Tanker Rail Dumbel Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure	bar	75
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow	°C	-29; +52
velocity UP TO Electrically	m/s	21
(as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Net buoy- ancy full of water (Kg)	Net buoy- ancy full of oil (Kg)	R.B. full of oil (%)	R.B. full of wa- ter (%)
	d1 (mm)	d2 (mm)	d3 (mm)									
150	595	309	524	150 x 9,1	708	881	859	1502	622	643	75	71
150	595	309	524	150 x 10,7	826	1027	1003	1619	592	616	61	58
150	595	309	524	150 x 12,2	944	1174	1146	1808	634	662	58	54
200	653	402	581	200 x 9,1	911	1219	1181	1994	775	812	69	64
200	653	402	581	200 x 10,7	1059	1418	1375	2192	774	818	59	55
200	653	402	581	200 x 12,2	1207	1618	1568	2461	844	894	57	52
250	782	460	675	250 x 9,1	1211	1695	1636	2700	1005	1064	65	59
250	782	460	675	250 x 10,7	1410	1974	1905	2960	986	1055	55	50
250	782	460	675	250 x 12,2	1608	2253	2174	3318	1065	1143	53	47
300	909	515	837	300 x 9,1	1476	2169	2084	3563	1394	1479	71	64
300	909	515	837	300 x 10,7	1721	2529	2430	3889	1360	1458	60	54
300	909	515	837	300 x 12,2	1966	2889	2776	4390	1501	1613	58	52
400	1091	620	1055	400 x 9,1	2135	3250	3114	5083	1833	1969	63	56
400	1091	620	1055	400 x 10,7	2496	3797	3638	5556	1759	1917	53	46
400	1091	620	1055	400 x 12,2	2857	4343	4162	6321	1977	2159	52	46
500	1238	762	1201	500 x 9,1	2815	4587	4371	6783	2196	2412	55	48
500	1238	762	1201	500 x 10,7	3268	5336	5084	7495	2159	2411	47	40
500	1238	762	1201	500 x 12,2	3722	6085	5797	8554	2469	2757	48	41

LDP-HF10019K

Tanker Rail Dumbel Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure	bar	95
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow	°C	-29; +52
velocity UP TO Electrically	m/s	21
(as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Net buoy- ancy full of water (Kg)	Net buoy- ancy full of oil (Kg)	R.B. full of oil (%)	R.B. full of wa- ter (%)
	d1 (mm)	d2 (mm)	d3 (mm)									
150	595	309	524	150 x 9,1	708	881	859	1502	622	643	75	71
150	595	309	524	150 x 10,7	826	1027	1003	1619	592	616	61	58
150	595	309	524	150 x 12,2	944	1174	1146	1808	634	662	58	54
200	653	402	581	200 x 9,1	911	1219	1181	1994	775	812	69	64
200	653	402	581	200 x 10,7	1059	1418	1375	2192	774	818	59	55
200	653	402	581	200 x 12,2	1207	1618	1568	2461	844	894	57	52
250	782	460	675	250 x 9,1	1227	1710	1651	2700	990	1049	63	58
250	782	460	675	250 x 10,7	1427	1991	1922	2960	969	1037	54	49
250	782	460	675	250 x 12,2	1627	2272	2193	3318	1046	1124	51	46
300	909	515	837	300 x 9,1	1486	2179	2094	3563	1385	1469	70	64
300	909	515	837	300 x 10,7	1732	2540	2441	3889	1349	1447	59	53
300	909	515	837	300 x 12,2	1978	2901	2789	4390	1488	1601	57	51
400	1091	620	1055	400 x 9,1	2135	3250	3114	5083	1833	1969	63	56
400	1091	620	1055	400 x 10,7	2496	3797	3638	5556	1759	1917	53	46
400	1091	620	1055	400 x 12,2	2857	4343	4162	6321	1977	2159	52	46
500	1238	762	1201	500 x 9,1	2898	4670	4454	6783	2113	2329	52	45
500	1238	762	1201	500 x 10,7	3362	5430	5178	7495	2065	2318	45	38
500	1238	762	1201	500 x 12,2	3826	6189	5901	8554	2365	2653	45	38

LDP-HF10021K

Tanker Rail Dumbel Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure	bar	105
Minimum Bending Radius		4 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range Flow	°C	-29; +52
velocity UP TO Electrically	m/s	21
(as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Net buoy- ancy full of water (Kg)	Net buoy- ancy full of oil (Kg)	R.B. full of oil (%)	R.B. full of wa- ter (%)
	d1 (mm)	d2 (mm)	d3 (mm)									
150	595	309	524	150 x 9,1	708	881	859	1502	622	643	75	71
150	595	309	524	150 x 10,7	826	1027	1003	1619	592	616	61	58
150	595	309	524	150 x 12,2	944	1174	1146	1808	634	662	58	54
200	653	402	581	200 x 9,1	922	1230	1192	1994	764	801	67	62
200	653	402	581	200 x 10,7	1072	1431	1387	2192	761	805	58	53
200	653	402	581	200 x 12,2	1221	1632	1582	2461	830	880	56	51
250	782	460	675	250 x 9,1	1227	1710	1651	2700	990	1049	63	58
250	782	460	675	250 x 10,7	1427	1991	1922	2960	969	1037	54	49
250	782	460	675	250 x 12,2	1627	2272	2193	3318	1046	1124	51	46
300	917	523	845	300 x 9,1	1565	2257	2173	3643	1385	1470	68	61
300	917	523	845	300 x 10,7	1826	2634	2535	3979	1345	1443	57	51
300	917	523	845	300 x 12,2	2087	3010	2897	4492	1482	1595	55	49
400	1091	620	1055	400 x 9,1	2135	3250	3114	5083	1833	1969	63	56
400	1091	620	1055	400 x 10,7	2496	3797	3638	5556	1759	1917	53	46
400	1091	620	1055	400 x 12,2	2857	4343	4162	6321	1977	2159	52	46
500	1238	762	1201	500 x 9,1	2898	4670	4454	6783	2113	2329	52	45
500	1238	762	1201	500 x 10,7	3362	5430	5178	7495	2065	2318	45	38
500	1238	762	1201	500 x 12,2	3826	6189	5901	8554	2365	2653	45	38

LDP-HF10015L

Fully Reinforced Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure	bar	75
Minimum Bending Radius		6 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO Electrically (as requested)	m/s	21
		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Net buoy- ancy full of water (Kg)	Net buoy- ancy full of oil (Kg)	R.B. full of oil (%)	R.B. full of wa- ter (%)
	d1 (mm)	d2 (mm)	d3 (mm)									
150	437	387	437	150 x 9,1	603	776	755	1079	302	324	43	39
150	437	387	437	150 x 10,7	690	892	867	1262	370	395	46	42
150	437	387	437	150 x 12,2	776	1007	978	1445	439	467	48	44
200	502	452	502	200 x 9,1	856	1164	1126	1474	310	348	31	27
200	502	452	502	200 x 10,7	980	1340	1296	1724	384	428	33	29
200	502	452	502	200 x 12,2	1104	1515	1465	1974	459	509	35	30
250	602	545	602	250 x 9,1	1157	1641	1582	2140	498	557	35	30
250	602	545	602	250 x 10,7	1324	1889	1820	2505	616	685	38	33
250	602	545	602	250 x 12,2	1489	2135	2056	2870	735	814	40	34
300	653	597	653	300 x 9,1	1350	2042	1958	2566	524	608	31	26
300	653	597	653	300 x 10,7	1541	2349	2251	3004	655	753	33	28
300	653	597	653	300 x 12,2	1732	2655	2542	3442	787	900	35	30
400	801	744	801	400 x 9,1	2050	3165	3029	3971	806	942	31	25
400	801	744	801	400 x 10,7	2350	3651	3492	4650	999	1158	33	27
400	801	744	801	400 x 12,2	2648	4134	3953	5329	1195	1376	35	29
500	959	892	959	500 x 9,1	2867	4640	4423	5701	1062	1278	29	23
500	959	892	959	500 x 10,7	3271	5339	5087	6677	1338	1590	31	25
500	959	892	959	500 x 12,2	3673	6036	5748	7653	1616	1905	33	27
600	1162	1085	1162	600 x 9,1	4059	6645	6330	8389	1744	2059	33	26
600	1162	1085	1162	600 x 10,7	4631	7648	7280	9833	2184	2552	35	29
600	1162	1085	1162	600 x 12,2	5200	8648	8228	11276	2628	3048	37	30

LDP-HF10019L

Fully Reinforced Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure	bar	95
Minimum Bending Radius		6 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO Electrically (as requested)	m/s	21
		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Net buoy- ancy full of water (Kg)	Net buoy- ancy full of oil (Kg)	R.B. full of oil (%)	R.B. full of wa- ter (%)
	d1 (mm)	d2 (mm)	d3 (mm)									
150	437	387	437	150 x 9,1	603	776	755	1079	302	324	43	39
150	437	387	437	150 x 10,7	690	892	867	1262	370	395	46	42
150	437	387	437	150 x 12,2	776	1007	978	1445	439	467	48	44
200	502	452	502	200 x 9,1	856	1164	1126	1474	310	348	31	27
200	502	452	502	200 x 10,7	980	1340	1296	1724	384	428	33	29
200	502	452	502	200 x 12,2	1104	1515	1465	1974	459	509	35	30
250	602	545	602	250 x 9,1	1173	1657	1598	2140	483	542	34	29
250	602	545	602	250 x 10,7	1341	1906	1837	2505	599	668	36	31
250	602	545	602	250 x 12,2	1509	2154	2075	2870	716	794	38	33
300	653	597	653	300 x 9,1	1360	2052	1968	2566	514	598	30	25
300	653	597	653	300 x 10,7	1553	2360	2262	3004	644	742	33	27
300	653	597	653	300 x 12,2	1744	2667	2555	3442	775	887	35	29
400	801	744	801	400 x 9,1	2050	3165	3029	3971	806	942	31	25
400	801	744	801	400 x 10,7	2350	3651	3492	4650	999	1158	33	27
400	801	744	801	400 x 12,2	2648	4134	3953	5329	1195	1376	35	29
500	959	892	959	500 x 9,1	2951	4724	4507	5701	977	1194	26	21
500	959	892	959	500 x 10,7	3366	5434	5181	6677	1243	1496	29	23
500	959	892	959	500 x 12,2	3778	6141	5853	7653	1511	1800	31	25
600	1162	1085	1162	600 x 9,1	4059	6645	6330	8389	1744	2059	33	26
600	1162	1085	1162	600 x 10,7	4631	7648	7280	9833	2184	2552	35	29
600	1162	1085	1162	600 x 12,2	5200	8648	8228	11276	2628	3048	37	30

LDP-HF10021L

Fully Reinforced Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Main reinforcement	Steel cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure	bar	105
Minimum Bending Radius		6 X ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO Electrically (as requested)	m/s	21
		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight in air empty (Kg)	Weight in air full of water (Kg)	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Net buoyan- cy full of water (Kg)	Net buoyan- cy full of oil (Kg)	R.B. full of oil (%)	R.B. full of wa- ter (%)
	d1 (mm)	d2 (mm)	d3 (mm)									
150	437	387	437	150 x 9,1	603	776	755	1079	302	324	43	39
150	437	387	437	150 x 10,7	690	892	867	1262	370	395	46	42
150	437	387	437	150 x 12,2	776	1007	978	1445	439	467	48	44
200	502	452	502	200 x 9,1	867	1175	1137	1474	299	337	30	25
200	502	452	502	200 x 10,7	993	1352	1308	1724	372	415	32	27
200	502	452	502	200 x 12,2	1119	1529	1479	1974	445	495	33	29
250	602	545	602	250 x 9,1	1173	1657	1598	2140	483	542	34	29
250	602	545	602	250 x 10,7	1341	1906	1837	2505	599	668	36	31
250	602	545	602	250 x 12,2	1509	2154	2075	2870	716	794	38	33
300	661	605	661	300 x 9,1	1439	2132	2047	2636	504	589	29	24
300	661	605	661	300 x 10,7	1647	2454	2356	3086	631	730	31	26
300	661	605	661	300 x 12,2	1853	2776	2663	3535	759	872	33	27
400	801	744	801	400 x 9,1	2050	3165	3029	3971	806	942	31	25
400	801	744	801	400 x 10,7	2350	3651	3492	4650	999	1158	33	27
400	801	744	801	400 x 12,2	2648	4134	3953	5329	1195	1376	35	29
500	959	892	959	500 x 9,1	2951	4724	4507	5701	977	1194	26	21
500	959	892	959	500 x 10,7	3366	5434	5181	6677	1243	1496	29	23
500	959	892	959	500 x 12,2	3778	6141	5853	7653	1511	1800	31	25
600	1162	1085	1162	600 x 9,1	4197	6783	6467	8389	1606	1922	30	24
600	1162	1085	1162	600 x 10,7	4788	7805	7437	9833	2028	2396	32	26
600	1162	1085	1162	600 x 12,2	5376	8824	8403	11276	2452	2873	34	28

LDP-HS20015A

Double Carcass One End Reinforced Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure (Primary)	bar	75
Min. burst pressure (Secondary)	bar	30
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	323	249	316	150 x 9,1	578	751	730	473	279	258
150	323	249	316	150 x 10,7	648	851	826	549	302	278
150	323	249	316	150 x 12,2	719	950	922	624	326	298
200	398	320	383	200 x 9,1	848	1157	1120	774	383	345
200	398	320	383	200 x 10,7	957	1318	1274	900	418	374
200	398	320	383	200 x 12,2	1066	1478	1428	1025	453	403
250	462	378	447	250 x 9,1	1118	1604	1545	1078	526	467
250	462	378	447	250 x 10,7	1261	1829	1759	1253	575	506
250	462	378	447	250 x 12,2	1405	2053	1974	1428	625	546
300	513	430	498	300 x 9,1	1310	2003	1919	1391	613	528
300	513	430	498	300 x 10,7	1475	2284	2185	1617	667	568
300	513	430	498	300 x 12,2	1640	2565	2452	1844	721	609
400	624	540	609	400 x 9,1	2072	3184	3048	2189	994	859
400	624	540	609	400 x 10,7	2350	3646	3488	2548	1098	940
400	624	540	609	400 x 12,2	2627	4108	3927	2906	1202	1022
500	756	658	733	500 x 9,1	2967	4734	4519	3245	1489	1274
500	756	658	733	500 x 10,7	3354	5416	5165	3777	1640	1388
500	756	658	733	500 x 12,2	3742	6098	5811	4308	1790	1503
600	887	775	856	600 x 9,1	4027	6607	6292	4493	2114	1799
600	887	775	856	600 x 10,7	4546	7556	7189	5229	2327	1960
600	887	775	856	600 x 12,2	5066	8506	8086	5966	2540	2121

LDP-HS20019A

Double Carcass One End Reinforced Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure (Primary)	bar	95
Min. burst pressure (Secondary)	bar	38
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	333	258	325	150 x 9,1	614	787	766	509	278	257
150	333	258	325	150 x 10,7	690	893	868	591	302	277
150	333	258	325	150 x 12,2	767	998	970	673	326	297
200	398	320	383	200 x 9,1	848	1157	1120	774	383	345
200	398	320	383	200 x 10,7	957	1318	1274	900	418	374
200	398	320	383	200 x 12,2	1066	1478	1428	1025	453	403
250	462	378	447	250 x 9,1	1133	1620	1560	1078	541	482
250	462	378	447	250 x 10,7	1279	1846	1777	1253	593	523
250	462	378	447	250 x 12,2	1424	2073	1994	1428	644	565
300	523	439	508	300 x 9,1	1379	2072	1988	1453	619	535
300	523	439	508	300 x 10,7	1555	2364	2266	1690	675	576
300	523	439	508	300 x 12,2	1732	2657	2544	1926	731	618
400	634	550	618	400 x 9,1	2174	3285	3150	2267	1018	882
400	634	550	618	400 x 10,7	2469	3765	3607	2638	1127	969
400	634	550	618	400 x 12,2	2763	4244	4064	3009	1235	1055
500	756	658	733	500 x 9,1	3051	4818	4603	3245	1573	1358
500	756	658	733	500 x 10,7	3449	5511	5259	3777	1734	1483
500	756	658	733	500 x 12,2	3847	6203	5916	4308	1895	1608
600	896	775	865	600 x 9,1	4178	6758	6443	4500	2258	1943
600	896	775	865	600 x 10,7	4721	7731	7364	5236	2495	2128

LDP-HS20021A

Double Carcass One End Reinforced Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure (Primary)	bar	105
Min. burst pressure (Secondary)	bar	42
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	333	258	325	150 x 9,1	614	787	766	509	278	257
150	333	258	325	150 x 10,7	690	893	868	591	302	277
150	333	258	325	150 x 12,2	767	998	970	673	326	297
200	398	320	383	200 x 9,1	859	1168	1131	774	394	356
200	398	320	383	200 x 10,7	969	1330	1286	900	431	387
200	398	320	383	200 x 12,2	1080	1493	1442	1025	468	417
250	462	378	447	250 x 9,1	1133	1620	1560	1078	541	482
250	462	378	447	250 x 10,7	1279	1846	1777	1253	593	523
250	462	378	447	250 x 12,2	1424	2073	1994	1428	644	565
300	531	447	516	300 x 9,1	1458	2152	2067	1506	646	562
300	531	447	516	300 x 10,7	1649	2459	2360	1751	707	609
300	531	447	516	300 x 12,2	1841	2766	2653	1996	769	656
400	634	550	618	400 x 9,1	2121	3232	3096	2267	964	829
400	634	550	618	400 x 10,7	2406	3702	3544	2638	1064	906
400	634	550	618	400 x 12,2	2691	4173	3992	3009	1163	983
500	775	668	752	500 x 9,1	3095	4863	4647	3346	1517	1301
500	775	668	752	500 x 10,7	3499	5561	5310	3893	1669	1417
500	775	668	752	500 x 12,2	3904	6260	5973	4440	1820	1533
600	915	794	885	600 x 9,1	4339	6919	6604	4724	2195	1881
600	915	794	885	600 x 10,7	4906	7915	7548	5497	2418	2051

LDP-HS20015B

Double Carcass Mainline Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure (Primary)	bar	75
Min. burst pressure (Secondary)	bar	30
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	316	245	316	150 x 9,1	548	722	700	459	263	242
150	316	245	316	150 x 10,7	614	816	791	532	284	259
150	316	245	316	150 x 12,2	679	910	882	606	305	276
200	383	312	383	200 x 9,1	790	1099	1062	739	361	323
200	383	312	383	200 x 10,7	890	1251	1207	858	393	349
200	383	312	383	200 x 12,2	990	1402	1352	977	425	375
250	447	370	447	250 x 9,1	1051	1538	1478	1036	502	442
250	447	370	447	250 x 10,7	1184	1752	1683	1204	548	479
250	447	370	447	250 x 12,2	1318	1966	1887	1372	594	515
300	498	422	498	300 x 9,1	1238	1931	1847	1343	589	504
300	498	422	498	300 x 10,7	1392	2201	2102	1561	640	541
300	498	422	498	300 x 12,2	1546	2471	2358	1780	691	578
400	606	526	606	400 x 9,1	1877	2988	2852	2079	909	773
400	606	526	606	400 x 10,7	2121	3417	3259	2418	999	841
400	606	526	606	400 x 12,2	2365	3847	3666	2758	1089	908
500	730	640	730	500 x 9,1	2664	4431	4216	3074	1357	1142
500	730	640	730	500 x 10,7	3000	5062	4811	3577	1486	1234
500	730	640	730	500 x 12,2	3337	5693	5406	4080	1614	1326
600	853	753	853	600 x 9,1	3662	6242	5927	4248	1993	1679
600	853	753	853	600 x 10,7	4121	7131	6764	4944	2187	1820

LDP-HS20019B

Double Carcass Mainline Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure (Primary)	bar	95
Min. burst pressure (Secondary)	bar	38
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	325	255	325	150 x 9,1	583	756	735	495	262	241
150	325	255	325	150 x 10,7	654	857	832	574	283	258
150	325	255	325	150 x 12,2	726	957	929	654	304	276
200	383	312	383	200 x 9,1	790	1099	1062	739	361	323
200	383	312	383	200 x 10,7	890	1251	1207	858	393	349
200	383	312	383	200 x 12,2	990	1402	1352	977	425	375
250	447	370	447	250 x 9,1	1067	1553	1493	1036	517	458
250	447	370	447	250 x 10,7	1202	1769	1700	1204	565	496
250	447	370	447	250 x 12,2	1337	1985	1906	1372	613	534
300	508	432	508	300 x 9,1	1304	1998	1914	1404	594	510
300	508	432	508	300 x 10,7	1470	2279	2180	1632	647	548
300	508	432	508	300 x 12,2	1635	2560	2447	1861	699	586
400	616	536	616	400 x 9,1	1974	3085	2950	2155	930	795
400	616	536	616	400 x 10,7	2235	3531	3373	2507	1025	867
400	616	536	616	400 x 12,2	2496	3978	3797	2859	1119	938
500	730	640	730	500 x 9,1	2747	4515	4299	3074	1441	1225
500	730	640	730	500 x 10,7	3094	5156	4904	3577	1579	1328
500	730	640	730	500 x 12,2	3441	5797	5510	4080	1718	1430
600	863	753	863	600 x 9,1	3805	6385	6071	4255	2130	1815
600	863	753	863	600 x 10,7	4288	7297	6930	4951	2347	1979

LDP-HS20021B

Double Carcass Mainline Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinf.	Steel cord skimmed with rubber
Secondary carcass reinf.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure (Primary)	bar	105
Min. burst pressure (Secondary)	bar	42
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	325	255	325	150 x 9,1	583	756	735	495	262	241
150	325	255	325	150 x 10,7	654	857	832	574	283	258
150	325	255	325	150 x 12,2	726	957	929	654	304	276
200	383	312	383	200 x 9,1	801	1110	1073	739	372	334
200	383	312	383	200 x 10,7	903	1264	1220	858	406	362
200	383	312	383	200 x 12,2	1004	1417	1366	977	439	389
250	447	370	447	250 x 9,1	1067	1553	1493	1036	517	458
250	447	370	447	250 x 10,7	1202	1769	1700	1204	565	496
250	447	370	447	250 x 12,2	1337	1985	1906	1372	613	534
300	516	440	516	300 x 9,1	1383	2077	1992	1456	621	536
300	516	440	516	300 x 10,7	1562	2372	2273	1693	679	580
300	516	440	516	300 x 12,2	1742	2667	2554	1930	737	625
400	616	536	616	400 x 9,1	1923	3034	2898	2155	879	744
400	616	536	616	400 x 10,7	2175	3471	3313	2507	965	806
400	616	536	616	400 x 12,2	2427	3909	3728	2859	1050	869
500	749	650	749	500 x 9,1	2790	4557	4342	3172	1385	1170
500	749	650	749	500 x 10,7	3143	5205	4953	3690	1515	1263
500	749	650	749	500 x 12,2	3496	5852	5565	4208	1644	1357
600	882	772	882	600 x 9,1	3965	6545	6230	4473	2072	1757
600	882	772	882	600 x 10,7	4470	7480	7113	5204	2275	1908

LDP-HS20015C

Double Carcass Reducer Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure (Primary)	bar	75
Min. burst pressure (Secondary)	bar	30
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Sub- merg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
200/150	323	249	316	200/150 x 10,7	665	867	843	549	319	294
200/150	323	249	316	200/150 x 12,2	735	967	938	624	342	314
250/200	398	320	383	250/200 x 9,1	871	1181	1143	774	406	368
250/200	398	320	383	250/200 x 10,7	980	1341	1297	900	441	397
250/200	398	320	383	250/200 x 12,2	1089	1502	1451	1025	477	426
300/250	462	378	447	300/250 x 9,1	1151	1637	1577	1078	558	499
300/250	462	378	447	300/250 x 10,7	1294	1861	1792	1253	608	539
300/250	462	378	447	300/250 x 12,2	1438	2086	2007	1428	658	579
400/300	513	430	498	400/300 x 9,1	1354	2048	1963	1391	657	573
400/300	513	430	498	400/300 x 10,7	1519	2329	2230	1617	711	613
400/300	513	430	498	400/300 x 12,2	1685	2610	2497	1844	766	653
500/400	621	534	606	500/400 x 9,1	2078	3189	3054	2139	1050	915
500/400	621	534	606	500/400 x 10,7	2345	3642	3483	2488	1153	995
500/400	621	534	606	500/400 x 12,2	2612	4094	3913	2838	1256	1075
600/500	753	652	730	600/500 x 9,1	2974	4741	4526	3183	1558	1342
600/500	753	652	730	600/500 x 10,7	3349	5411	5160	3704	1707	1455
600/500	753	652	730	600/500 x 12,2	3725	6081	5794	4225	1856	1569

LDP-HS20019C

Double Carcass Reducer Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure (Primary)	bar	95
Min. burst pressure (Secondary)	bar	38
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Sub- merg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
200/150	333	258	325	200/150 x 10,7	707	909	885	591	318	294
200/150	333	258	325	200/150 x 12,2	784	1015	987	673	342	314
250/200	398	320	383	250/200 x 9,1	871	1181	1143	774	406	368
250/200	398	320	383	250/200 x 10,7	980	1341	1297	900	441	397
250/200	398	320	383	250/200 x 12,2	1089	1502	1451	1025	477	426
300/250	462	378	447	300/250 x 9,1	1166	1652	1593	1078	574	514
300/250	462	378	447	300/250 x 10,7	1311	1878	1809	1253	625	556
300/250	462	378	447	300/250 x 12,2	1457	2105	2026	1428	677	598
400/300	523	439	508	400/300 x 9,1	1423	2117	2032	1453	664	579
400/300	523	439	508	400/300 x 10,7	1599	2409	2310	1690	719	621
400/300	523	439	508	400/300 x 12,2	1776	2701	2589	1926	775	662
500/400	631	543	616	500/400 x 9,1	2179	3290	3154	2216	1074	938
500/400	631	543	616	500/400 x 10,7	2463	3759	3601	2578	1181	1023
500/400	631	543	616	500/400 x 12,2	2747	4229	4048	2940	1289	1108
600/500	753	652	730	600/500 x 9,1	3057	4825	4609	3183	1641	1426
600/500	753	652	730	600/500 x 10,7	3443	5505	5253	3704	1801	1549
600/500	753	652	730	600/500 x 12,2	3829	6185	5898	4225	1960	1673

LDP-HS20021C

Double Carcass Reducer Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure (Primary)	bar	105
Min. burst pressure (Secondary)	bar	42
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Sub- merg. Weight full of water (Kg)	Submerg. Weight full of oil (Kg)
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
200/150	333	258	325	200/150 x 10,7	707	909	885	591	318	294
200/150	333	258	325	200/150 x 12,2	784	1015	987	673	342	314
250/200	398	320	383	250/200 x 9,1	882	1192	1154	774	417	379
250/200	398	320	383	250/200 x 10,7	993	1353	1309	900	454	410
250/200	398	320	383	250/200 x 12,2	1103	1516	1466	1025	491	441
300/250	462	378	447	300/250 x 9,1	1166	1652	1593	1078	574	514
300/250	462	378	447	300/250 x 10,7	1311	1878	1809	1253	625	556
300/250	462	378	447	300/250 x 12,2	1457	2105	2026	1428	677	598
400/300	531	447	516	400/300 x 9,1	1503	2197	2112	1506	691	606
400/300	531	447	516	400/300 x 10,7	1694	2503	2404	1751	752	653
400/300	531	447	516	400/300 x 12,2	1885	2810	2698	1996	814	701
500/400	631	543	616	500/400 x 9,1	2126	3237	3101	2216	1021	886
500/400	631	543	616	500/400 x 10,7	2401	3697	3539	2578	1119	961
500/400	631	543	616	500/400 x 12,2	2676	4158	3977	2940	1218	1037
600/500	772	661	749	600/500 x 9,1	3101	4868	4653	3283	1585	1370
600/500	772	661	749	600/500 x 10,7	3493	5555	5304	3819	1736	1484
600/500	772	661	749	600/500 x 12,2	3885	6242	5954	4356	1886	1598

LDP-HS20015D

Double Carcass Tail Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure (Primary)	bar	75
Min. burst pressure (Secondary)	bar	30
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Sub- merg. Weight full of water (Kg)	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	320	253	320	150 x 10,7	658	861	836	564	296	272
150	320	253	320	150 x 12,2	731	962	934	643	319	291
200	388	320	388	200 x 9,1	838	1148	1110	773	374	336
200	388	320	388	200 x 10,7	947	1307	1263	899	409	365
200	388	320	388	200 x 12,2	1055	1467	1417	1024	443	393
250	452	378	452	250 x 9,1	1108	1595	1535	1077	517	458
250	452	378	452	250 x 10,7	1252	1819	1750	1252	567	498
250	452	378	452	250 x 12,2	1395	2043	1964	1427	616	537
300	506	433	506	300 x 9,1	1330	2024	1939	1409	615	530
300	506	433	506	300 x 10,7	1500	2309	2211	1638	671	572
300	506	433	506	300 x 12,2	1670	2595	2482	1868	727	614
400	613	537	613	400 x 9,1	2038	3149	3014	2161	988	853
400	613	537	613	400 x 10,7	2310	3607	3448	2514	1092	934
400	613	537	613	400 x 12,2	2583	4064	3883	2868	1196	1016
500	737	650	737	500 x 9,1	2878	4646	4430	3164	1482	1266
500	737	650	737	500 x 10,7	3252	5314	5062	3682	1632	1380
500	737	650	737	500 x 12,2	3625	5982	5695	4200	1782	1495

LDP-HS20019D

Double Carcass Tail Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure (Primary)	bar	95
Min. burst pressure (Secondary)	bar	38
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	329,6	262,1	329,6	150 x 10,7	700	903	878	607	295	271
150	329,6	262,1	329,6	150 x 12,2	779	1010	982	692	318	290
200	387,6	319,6	387,6	200 x 9,1	838	1148	1110	773	374	336
200	387,6	319,6	387,6	200 x 10,7	947	1307	1263	899	409	365
200	387,6	319,6	387,6	200 x 12,2	1055	1467	1417	1024	443	393
250	451,6	377,6	451,6	250 x 9,1	1124	1610	1551	1077	533	473
250	451,6	377,6	451,6	250 x 10,7	1269	1836	1767	1252	584	515
250	451,6	377,6	451,6	250 x 12,2	1414	2062	1983	1427	635	556
300	515,2	442,2	515,2	300 x 9,1	1398	2092	2007	1471	621	536
300	515,2	442,2	515,2	300 x 10,7	1580	2389	2290	1711	678	579
300	515,2	442,2	515,2	300 x 12,2	1761	2686	2573	1951	735	622
400	623,0	546,3	623,0	400 x 9,1	2138	3249	3113	2238	1010	875
400	623,0	546,3	623,0	400 x 10,7	2427	3723	3565	2604	1119	961
400	623,0	546,3	623,0	400 x 12,2	2716	4198	4017	2970	1227	1047
500	736,8	649,8	736,8	500 x 9,1	2961	4729	4513	3164	1565	1349
500	736,8	649,8	736,8	500 x 10,7	3345	5407	5156	3682	1725	1474
500	736,8	649,8	736,8	500 x 12,2	3729	6086	5798	4200	1886	1598

LDP-HS20021D

Double Carcass Tail Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure (Primary)	bar	105
Min. burst pressure (Secondary)	bar	42
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Sub- merg. Weight full of water (Kg)	Submerg. Weight full of oil (Kg)
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	329,6	262,1	329,6	150 x 10,7	700	903	878	607	295	271
150	329,6	262,1	329,6	150 x 12,2	779	1010	982	692	318	290
200	387,6	319,6	387,6	200 x 9,1	849	1159	1121	773	385	347
200	387,6	319,6	387,6	200 x 10,7	959	1320	1276	899	421	377
200	387,6	319,6	387,6	200 x 12,2	1069	1482	1431	1024	458	407
250	451,6	377,6	451,6	250 x 9,1	1124	1610	1551	1077	533	473
250	451,6	377,6	451,6	250 x 10,7	1269	1836	1767	1252	584	515
250	451,6	377,6	451,6	250 x 12,2	1414	2062	1983	1427	635	556
300	523,2	450,2	523,2	300 x 9,1	1478	2172	2088	1524	648	563
300	523,2	450,2	523,2	300 x 10,7	1675	2484	2385	1773	711	612
300	523,2	450,2	523,2	300 x 12,2	1871	2796	2683	2022	774	661
400	623,0	546,3	623,0	400 x 9,1	2085	3196	3061	2238	958	823
400	623,0	546,3	623,0	400 x 10,7	2366	3662	3504	2604	1057	899
400	623,0	546,3	623,0	400 x 12,2	2646	4127	3947	2970	1157	976
500	755,6	659,4	755,6	500 x 9,1	3004	4772	4556	3263	1509	1293
500	755,6	659,4	755,6	500 x 10,7	3395	5457	5205	3797	1660	1408
500	755,6	659,4	755,6	500 x 12,2	3785	6141	5854	4330	1811	1524

LDP-HS20015E

Double Carcass Tanker Rail Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure (Primary)	bar	75
Min. burst pressure (Secondary)	bar	30
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	323	253	323	150 x 10,7	664	867	842	565	301	277
150	323	253	323	150 x 12,2	737	968	940	643	325	297
200	391	320	391	200 x 9,1	845	1154	1116	774	380	342
200	391	320	391	200 x 10,7	954	1315	1271	900	415	371
200	391	320	391	200 x 12,2	1063	1476	1425	1025	451	400
250	455	378	455	250 x 9,1	1116	1602	1543	1078	524	465
250	455	378	455	250 x 10,7	1260	1828	1758	1253	574	505
250	455	378	455	250 x 12,2	1405	2053	1974	1428	625	546
300	509	433	509	300 x 9,1	1338	2032	1948	1410	622	537
300	509	433	509	300 x 10,7	1510	2319	2220	1640	679	581
300	509	433	509	300 x 12,2	1681	2606	2493	1869	737	624
400	616	536	616	400 x 9,1	2042	3153	3017	2159	993	858
400	616	536	616	400 x 10,7	2315	3611	3453	2512	1099	941
400	616	536	616	400 x 12,2	2588	4069	3888	2865	1204	1023
500	740	649	740	500 x 9,1	2883	4650	4435	3162	1488	1273
500	740	649	740	500 x 10,7	3257	5319	5068	3679	1640	1388
500	740	649	740	500 x 12,2	3632	5988	5701	4197	1791	1504

LDP-HS20019E

Double Carcass Tanker Rail Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

Submarine hoses are supplied with collars for floats on request

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure (Primary)	bar	95
Min. burst pressure (Secondary)	bar	38
Minimum Bending Radius	4 x ID	
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)	Continuous / Discontinuous	

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	SubmERG. Weight full of water	SubmERG. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	333	262	333	150 x 10,7	707	909	884	608	301	276
150	333	262	333	150 x 12,2	786	1017	989	693	324	296
200	391	320	391	200 x 9,1	845	1154	1116	774	380	342
200	391	320	391	200 x 10,7	954	1315	1271	900	415	371
200	391	320	391	200 x 12,2	1063	1476	1425	1025	451	400
250	455	378	455	250 x 9,1	1131	1618	1558	1078	539	480
250	455	378	455	250 x 10,7	1278	1845	1776	1253	592	522
250	455	378	455	250 x 12,2	1424	2072	1993	1428	644	565
300	518	442	518	300 x 9,1	1407	2101	2016	1473	628	543
300	518	442	518	300 x 10,7	1590	2399	2300	1713	686	588
300	518	442	518	300 x 12,2	1772	2697	2585	1952	745	632
400	626	546	626	400 x 9,1	2141	3253	3117	2237	1016	880
400	626	546	626	400 x 10,7	2431	3728	3570	2602	1125	967
400	626	546	626	400 x 12,2	2721	4203	4022	2968	1235	1054
500	740	649	740	500 x 9,1	2966	4734	4518	3162	1572	1356
500	740	649	740	500 x 10,7	3351	5413	5161	3679	1733	1482
500	740	649	740	500 x 12,2	3736	6092	5805	4197	1895	1608

LDP-HS20021E

Double Carcass Tanker Rail Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

Submarine hoses are supplied with collars for floats on request

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure (Primary)	bar	105
Min. burst pressure (Secondary)	bar	42
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	333	262	333	150 x 10,7	707	909	884	608	301	276
150	333	262	333	150 x 12,2	786	1017	989	693	324	296
200	391	320	391	200 x 9,1	856	1165	1127	774	391	353
200	391	320	391	200 x 10,7	967	1327	1283	900	428	384
200	391	320	391	200 x 12,2	1078	1490	1440	1025	465	415
250	455	378	455	250 x 9,1	1131	1618	1558	1078	539	480
250	455	378	455	250 x 10,7	1278	1845	1776	1253	592	522
250	455	378	455	250 x 12,2	1424	2072	1993	1428	644	565
300	526	450	526	300 x 9,1	1487	2181	2096	1526	655	571
300	526	450	526	300 x 10,7	1685	2494	2395	1774	720	621
300	526	450	526	300 x 12,2	1882	2807	2694	2023	784	671
400	626	546	626	400 x 9,1	2089	3200	3065	2237	963	828
400	626	546	626	400 x 10,7	2370	3666	3508	2602	1064	906
400	626	546	626	400 x 12,2	2651	4132	3952	2968	1165	984
500	758	659	758	500 x 9,1	3010	4777	4561	3261	1516	1300
500	758	659	758	500 x 10,7	3400	5462	5211	3794	1668	1417
500	758	659	758	500 x 12,2	3791	6148	5860	4327	1821	1533

LDP-HS20015F

Double Carcass Fully Reinforced
Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure (Primary)	bar	75
Min. burst pressure (Secondary)	bar	30
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	323	253	323	150 x 10,7	659	861	836	565	296	271
150	323	253	323	150 x 12,2	731	962	934	643	319	291
200	398	327	398	200 x 9,1	888	1198	1160	811	387	349
200	398	327	398	200 x 10,7	1005	1366	1322	942	424	380
200	398	327	398	200 x 12,2	1122	1535	1484	1074	461	411
250	462	385	462	250 x 9,1	1168	1654	1595	1122	532	473
250	462	385	462	250 x 10,7	1321	1888	1819	1304	585	516
250	462	385	462	250 x 12,2	1474	2123	2044	1486	637	558
300	513	437	513	300 x 9,1	1366	2060	1976	1440	620	536
300	513	437	513	300 x 10,7	1543	2352	2253	1674	678	579
300	513	437	513	300 x 12,2	1719	2644	2531	1909	735	622
400	624	548	624	400 x 9,1	2136	3247	3111	2251	996	860
400	624	548	624	400 x 10,7	2425	3721	3563	2619	1102	944
400	624	548	624	400 x 12,2	2714	4195	4015	2987	1208	1027
500	756	670	756	500 x 9,1	3088	4856	4640	3358	1498	1283
500	756	670	756	500 x 10,7	3498	5560	5309	3908	1653	1401
500	756	670	756	500 x 12,2	3908	6265	5978	4458	1807	1520
600	887	790	887	600 x 9,1	4245	6825	6511	4669	2156	1841
600	887	790	887	600 x 10,7	4806	7815	7448	5435	2380	2013
600	887	790	887	600 x 12,2	5366	8805	8386	6201	2605	2185

LDP-HS20019F

Double Carcass Fully Reinforced
Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reforc.	Steel cord skimmed with rubber
Secondary carcass reforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure (Primary)	bar	95
Min. burst pressure (Secondary)	bar	38
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	333	262	333	150 x 10,7	701	903	878	608	295	270
150	333	262	333	150 x 12,2	779	1010	982	693	318	290
200	398	327	398	200 x 9,1	888	1198	1160	811	387	349
200	398	327	398	200 x 10,7	1005	1366	1322	942	424	380
200	398	327	398	200 x 12,2	1122	1535	1484	1074	461	411
250	462	385	462	250 x 9,1	1183	1669	1610	1122	548	488
250	462	385	462	250 x 10,7	1338	1906	1836	1304	602	533
250	462	385	462	250 x 12,2	1493	2142	2063	1486	656	577
300	523	447	523	300 x 9,1	1435	2129	2045	1503	626	541
300	523	447	523	300 x 10,7	1623	2432	2334	1748	684	586
300	523	447	523	300 x 12,2	1811	2736	2623	1993	743	630
400	634	557	634	400 x 9,1	2237	3348	3213	2330	1018	883
400	634	557	634	400 x 10,7	2544	3840	3682	2711	1129	971
400	634	557	634	400 x 12,2	2851	4332	4151	3092	1240	1059
500	756	670	756	500 x 9,1	3173	4940	4724	3358	1582	1367
500	756	670	756	500 x 10,7	3593	5655	5404	3908	1747	1496
500	756	670	756	500 x 12,2	4013	6370	6083	4458	1912	1625
600	896	790	896	600 x 9,1	4396	6976	6661	4677	2300	1985
600	896	790	896	600 x 10,7	4980	7990	7623	5442	2548	2181
600	896	790	896	600 x 12,2	5565	9004	8585	6208	2797	2377

LDP-HS20021F

Double Carcass Fully Reinforced
Submarine Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in
Submarine hoses are supplied with collars for floats on request	

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure (Primary)	bar	105
Min. burst pressure (Secondary)	bar	42
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Submerg. Weight full of water	Submerg. Weight full of oil
	d1	d2	d3							
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	333	262	333	150 x 10,7	701	903	878	608	295	270
150	333	262	333	150 x 12,2	779	1010	982	693	318	290
200	398	327	398	200 x 9,1	899	1209	1171	811	398	360
200	398	327	398	200 x 10,7	1018	1379	1335	942	436	392
200	398	327	398	200 x 12,2	1136	1549	1499	1074	475	425
250	462	385	462	250 x 9,1	1183	1669	1610	1122	548	488
250	462	385	462	250 x 10,7	1338	1906	1836	1304	602	533
250	462	385	462	250 x 12,2	1493	2142	2063	1486	656	577
300	531	455	531	300 x 9,1	1516	2210	2125	1557	653	569
300	531	455	531	300 x 10,7	1719	2528	2429	1811	718	619
300	531	455	531	300 x 12,2	1921	2846	2734	2064	782	669
400	634	557	634	400 x 9,1	2184	3295	3159	2330	965	829
400	634	557	634	400 x 10,7	2481	3777	3619	2711	1066	908
400	634	557	634	400 x 12,2	2779	4260	4079	3092	1168	987
500	775	679	775	500 x 9,1	3217	4984	4769	3460	1524	1309
500	775	679	775	500 x 10,7	3644	5706	5454	4026	1680	1428
500	775	679	775	500 x 12,2	4070	6427	6140	4592	1835	1548
600	915	809	915	600 x 9,1	4558	7137	6823	4905	2233	1918
600	915	809	915	600 x 10,7	5165	8175	7807	5708	2467	2100
600	915	809	915	600 x 12,2	5772	9212	8792	6511	2700	2281

LDP-HF20019G

Double Carcass One End Reinforced Half Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure (Primary)	bar	75
Min. burst pressure (Secondary)	bar	30
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.				Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9 (Kg)	Disp- la- ce- ment (Kg)	Net buoy- ancy full of water (Kg)	Net buoyancy full of oil (Kg)	R.B. full of oil (Kg)	R.B. full of water (Kg)
	d1	d2	d3	d4									
(mm)	(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	400	471	255	325	150 x 9,1	667	840	819	830	840	819	1	-1
150	400	471	255	325	150 x 10,7	751	953	929	968	953	929	4	2
150	400	471	255	325	150 x 12,2	836	1066	1038	1106	1066	1038	7	4
200	467	539	329	400	200 x 9,1	949	1257	1219	1206	1257	1219	-1	-4
200	467	539	329	400	200 x 10,7	1073	1432	1388	1406	1432	1388	1	-2
200	467	539	329	400	200 x 12,2	1197	1608	1558	1607	1608	1558	3	-0
250	561	638	387	464	250 x 9,1	1251	1735	1676	1714	1735	1676	2	-1
250	561	638	387	464	250 x 10,7	1415	1979	1910	1999	1979	1910	5	1
250	561	638	387	464	250 x 12,2	1579	2224	2145	2285	2224	2145	6	3
300	613	689	439	515	300 x 9,1	1446	2138	2054	2093	2138	2054	2	-2
300	613	689	439	515	300 x 10,7	1633	2441	2343	2442	2441	2343	4	0
300	613	689	439	515	300 x 12,2	1822	2745	2632	2791	2745	2632	6	2
400	760	836	550	626	400 x 9,1	2277	3392	3256	3273	3392	3256	1	-4
400	760	836	550	626	400 x 10,7	2585	3886	3728	3813	3886	3728	2	-2
400	760	836	550	626	400 x 12,2	2893	4380	4199	4353	4380	4199	4	-1
500	945	1032	672	758	500 x 9,1	3260	5032	4816	5015	5032	4816	4	0
500	945	1032	672	758	500 x 10,7	3692	5760	5508	5840	5760	5508	6	1
500	945	1032	672	758	500 x 12,2	4125	6488	6200	6665	6488	6200	8	3
600	1094	1191	792	889	600 x 9,1	4364	6950	6635	6804	6950	6635	3	-2
600	1094	1191	792	889	600 x 10,7	4939	7956	7588	7923	7956	7588	4	-0
600	1094	1191	792	889	600 x 12,2	5514	8962	8541	9042	8962	8541	6	1

LDP-HF20015G

Double Carcass One End Reinforced Half Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure (Primary)	bar	95
Min. burst pressure (Secondary)	bar	38
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.				Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9 (Kg)	Dis- pla- ce- ment (Kg)	Net buoy- ancy full of water (Kg)	Net buoyancy full of oil (Kg)	R.B. full of oil (Kg)	R.B. full of water (Kg)
	d1	d2	d3	d4									
(mm)	(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	410	481	264	335	150 x 10,7	796	997	973	1023	997	973	5	3
150	410	481	264	335	150 x 12,2	886	1117	1089	1169	1117	1089	7	5
200	467	539	329	400	200 x 9,1	949	1257	1219	1206	1257	1219	-1	-4
200	467	539	329	400	200 x 10,7	1073	1432	1388	1406	1432	1388	1	-2
200	467	539	329	400	200 x 12,2	1197	1608	1558	1607	1608	1558	3	-0
250	561	638	387	464	250 x 9,1	1266	1750	1691	1714	1750	1691	1	-2
250	561	638	387	464	250 x 10,7	1432	1996	1928	1999	1996	1928	4	0
250	561	638	387	464	250 x 12,2	1598	2243	2164	2285	2243	2164	6	2
300	623	699	449	525	300 x 9,1	1517	2209	2125	2168	2209	2125	2	-2
300	623	699	449	525	300 x 10,7	1716	2524	2425	2530	2524	2425	4	0
300	623	699	449	525	300 x 12,2	1916	2839	2727	2891	2839	2727	6	2
400	769	845	559	636	400 x 9,1	2381	3496	3360	3367	3496	3360	0	-4
400	769	845	559	636	400 x 10,7	2707	4008	3850	3922	4008	3850	2	-2
400	769	845	559	636	400 x 12,2	3033	4520	4339	4478	4520	4339	3	-1
500	945	1032	672	758	500 x 9,1	3344	5117	4900	5015	5117	4900	2	-2
500	945	1032	672	758	500 x 10,7	3787	5855	5603	5840	5855	5603	4	0
500	945	1032	672	758	500 x 12,2	4230	6593	6305	6665	6593	6305	6	1
600	1094	1200	792	898	600 x 9,1	4515	7101	6786	6812	7101	6786	0	-4
600	1094	1200	792	898	600 x 10,7	5114	8131	7763	7931	8131	7763	2	-2
600	1094	1200	792	898	600 x 12,2	5713	9161	8741	9050	9161	8741	4	-1

LDP-HF20021G

Double Carcass One End Reinforced Half Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure (Primary)	bar	105
Min. burst pressure (Secondary)	bar	42
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.				Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9 (Kg)	Disp- la- ce- ment (Kg)	Net buoy- ancy full of water (Kg)	Net buoyancy full of oil (Kg)	R.B. full of oil (Kg)	R.B. full of water (Kg)
	d1	d2	d3	d4									
(mm)	(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	410	481	264	335	150 x 10,7	796	997	973	1023	997	973	5	3
150	410	481	264	335	150 x 12,2	886	1117	1089	1169	1117	1089	7	5
200	467	539	329	400	200 x 9,1	960	1268	1230	1206	1268	1230	-2	-5
200	467	539	329	400	200 x 10,7	1085	1445	1401	1406	1445	1401	0	-3
200	467	539	329	400	200 x 12,2	1212	1622	1572	1607	1622	1572	2	-1
250	561	638	387	464	250 x 9,1	1266	1750	1691	1714	1750	1691	1	-2
250	561	638	387	464	250 x 10,7	1432	1996	1928	1999	1996	1928	4	0
250	561	638	387	464	250 x 12,2	1598	2243	2164	2285	2243	2164	6	2
300	631	707	457	533	300 x 9,1	1598	2290	2206	2232	2290	2206	1	-3
300	631	707	457	533	300 x 10,7	1812	2620	2522	2604	2620	2522	3	-1
300	631	707	457	533	300 x 12,2	2027	2950	2838	2976	2950	2838	5	1
400	769	845	559	636	400 x 9,1	2328	3443	3307	3367	3443	3307	2	-2
400	769	845	559	636	400 x 10,7	2645	3945	3787	3922	3945	3787	4	-1
400	769	845	559	636	400 x 12,2	2961	4448	4267	4478	4448	4267	5	1
500	955	1051	681	777	500 x 9,1	3391	5164	4948	5137	5164	4948	4	-1
500	955	1051	681	777	500 x 10,7	3841	5909	5657	5981	5909	5657	6	1
500	955	1051	681	777	500 x 12,2	4290	6654	6366	6825	6654	6366	7	3
600	1113	1219	811	917	600 x 9,1	4682	7268	6953	7083	7268	6953	2	-3
600	1113	1219	811	917	600 x 10,7	5305	8322	7954	8247	8322	7954	4	-1
600	1113	1219	811	917	600 x 12,2	5928	9376	8956	9411	9376	8956	5	0

LDP-HF20015H

Double Carcass Mainline Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure (Primary)	bar	75
Min. burst pressure (Secondary)	bar	30
Minimum Bending Radius		6 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement	Net buoy- ancy full of water	Net buoy- ancy full of oil	R.B. full of oil	R.B. full of water
	d1	d2	d3									
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	467	396	467	150 x 9,1	709	882	861	1129	246	267	31	28
150	467	396	467	150 x 10,7	802	1004	980	1321	317	342	35	32
150	467	396	467	150 x 12,2	894	1125	1097	1514	389	417	38	35
200	570	499	570	200 x 9,1	1003	1311	1273	1778	468	505	40	36
200	570	499	570	200 x 10,7	1139	1498	1455	2084	586	630	43	39
200	570	499	570	200 x 12,2	1274	1685	1634	2390	705	756	46	42
250	638	561	638	250 x 9,1	1285	1769	1710	2257	488	547	32	28
250	638	561	638	250 x 10,7	1458	2023	1954	2643	620	689	35	31
250	638	561	638	250 x 12,2	1630	2275	2197	3029	754	833	38	33
300	685	609	685	300 x 9,1	1490	2182	2098	2653	471	555	26	22
300	685	609	685	300 x 10,7	1688	2496	2397	3108	612	711	30	25
300	685	609	685	300 x 12,2	1884	2807	2695	3563	756	869	32	27
400	829	749	829	400 x 9,1	2215	3330	3194	3988	658	794	25	20
400	829	749	829	400 x 10,7	2519	3820	3661	4676	857	1015	28	22
400	829	749	829	400 x 12,2	2819	4306	4125	5365	1059	1240	30	25
500	1025	935	1025	500 x 9,1	3143	4916	4700	6132	1216	1432	30	25
500	1025	935	1025	500 x 10,7	3563	5631	5379	7204	1573	1825	34	28
500	1025	935	1025	500 x 12,2	3979	6343	6054	8277	1934	2222	37	30
600	1182	1081	1182	600 x 9,1	4145	6731	6416	8189	1458	1774	28	22
600	1182	1081	1182	600 x 10,7	4689	7706	7338	9624	1918	2286	31	25
600	1182	1081	1182	600 x 12,2	5227	8675	8255	11059	2384	2804	34	27

LDP-HF20019H

Double Carcass Mainline Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinfrc.	Steel cord skimmed with rubber
Secondary carcass reinfrc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure (Primary)	bar	95
Min. burst pressure (Secondary)	bar	38
Minimum Bending Radius		6 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Net buoy- ancy full of water	Net buoy- ancy full of oil	R.B. full of oil	R.B. full of wa- ter
	d1	d2	d3									
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	477	406	477	150 x 10,7	846	1048	1023	1387	339	363	35	32
150	477	406	477	150 x 12,2	944	1175	1147	1589	414	442	39	35
200	570	499	570	200 x 9,1	1003	1311	1273	1778	468	505	40	36
200	570	499	570	200 x 10,7	1139	1498	1455	2084	586	630	43	39
200	570	499	570	200 x 12,2	1274	1685	1634	2390	705	756	46	42
250	638	561	638	250 x 9,1	1300	1784	1725	2257	472	531	31	26
250	638	561	638	250 x 10,7	1476	2040	1971	2643	603	672	34	30
250	638	561	638	250 x 12,2	1649	2294	2216	3029	735	814	37	32
300	695	619	695	300 x 9,1	1559	2252	2167	2738	486	571	26	22
300	695	619	695	300 x 10,7	1769	2577	2479	3208	631	729	29	24
300	695	619	695	300 x 12,2	1977	2900	2788	3678	778	890	32	27
400	839	759	839	400 x 9,1	2316	3431	3295	4092	661	797	24	19
400	839	759	839	400 x 10,7	2637	3938	3779	4798	861	1019	27	22
400	839	759	839	400 x 12,2	2955	4442	4260	5505	1063	1245	29	24
500	1025	935	1025	500 x 9,1	3227	4999	4783	6132	1133	1349	28	23
500	1025	935	1025	500 x 10,7	3657	5725	5473	7204	1479	1732	32	26
500	1025	935	1025	500 x 12,2	4083	6446	6158	8277	1830	2118	34	28
600	1191	1081	1191	600 x 9,1	4288	6874	6559	8216	1341	1657	25	20
600	1191	1081	1191	600 x 10,7	4855	7872	7504	9650	1779	2147	29	23
600	1191	1081	1191	600 x 12,2	5416	8864	8444	11085	2221	2642	31	25

LDP-HF20021H

Double Carcass Mainline Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure (Primary)	bar	105
Min. burst pressure (Secondary)	bar	42
Minimum Bending Radius		6 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Net buoy- ancy full of water	Net buoy- ancy full of oil	R.B. full of oil	R.B. full of wa- ter
	d1	d2	d3									
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	477	406	477	150 x 10,7	846	1048	1023	1387	339	363	35	32
150	477	406	477	150 x 12,2	944	1175	1147	1589	414	442	39	35
200	570	499	570	200 x 9,1	1014	1322	1284	1778	457	494	38	35
200	570	499	570	200 x 10,7	1152	1511	1467	2084	573	617	42	38
200	570	499	570	200 x 12,2	1288	1699	1649	2390	691	741	45	41
250	638	561	638	250 x 9,1	1300	1784	1725	2257	472	531	31	26
250	638	561	638	250 x 10,7	1476	2040	1971	2643	603	672	34	30
250	638	561	638	250 x 12,2	1649	2294	2216	3029	735	814	37	32
300	703	627	703	300 x 9,1	1640	2333	2248	2810	478	562	25	20
300	703	627	703	300 x 10,7	1865	2673	2574	3292	620	718	28	23
300	703	627	703	300 x 12,2	2087	3011	2898	3774	764	876	30	25
400	839	759	839	400 x 9,1	2264	3379	3243	4092	713	849	26	21
400	839	759	839	400 x 10,7	2577	3878	3719	4798	921	1079	29	24
400	839	759	839	400 x 12,2	2886	4372	4191	5505	1132	1314	31	26
500	1044	944	1044	500 x 9,1	3273	5046	4830	6282	1237	1453	30	25
500	1044	944	1044	500 x 10,7	3710	5778	5526	7377	1598	1851	33	28
500	1044	944	1044	500 x 12,2	4143	6507	6218	8471	1964	2253	36	30
600	1210	1101	1210	600 x 9,1	4457	7043	6727	8516	1473	1789	27	21
600	1210	1101	1210	600 x 10,7	5047	8064	7696	10002	1938	2306	30	24
600	1210	1101	1210	600 x 12,2	5633	9081	8660	11489	2408	2828	33	27

LDP-HF20015I

Double Carcass Reducer Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure (Primary)	bar	75
Min. burst pressure (Secondary)	bar	30
Minimum Bending Radius		6 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS

d3

d2

d1



Nomin. Diam. (mm)	Hose O.D.			Size (mm x m)	Weight empty (Kg)	Weight full of water (Kg)	Weight full of oil s.g. = 0,9 (Kg)	Displa- cement (Kg)	Net cy full of water (Kg)	Net yancy full of oil (Kg)	R.B. oil (Kg)	R.B. water (Kg)
	d1 (mm)	d2 (mm)	d3 (mm)									
200/150	471	400	471	200/150 x 9,1	756	929	908	1151	222	243	27	24
200/150	471	400	471	200/150 x 10,7	854	1055	1031	1347	291	316	31	28
200/150	471	400	471	200/150 x 12,2	951	1181	1153	1543	362	390	34	31
250/200	578	507	578	250/200 x 9,1	1084	1392	1354	1834	442	479	35	32
250/200	578	507	578	250/200 x 10,7	1229	1589	1545	2149	560	604	39	35
250/200	578	507	578	250/200 x 12,2	1374	1784	1734	2464	680	730	42	38
300/250	646	569	646	300/250 x 9,1	1385	1868	1809	2319	450	509	28	24
300/250	646	569	646	300/250 x 10,7	1568	2133	2064	2716	583	652	32	27
300/250	646	569	646	300/250 x 12,2	1750	2396	2317	3113	717	796	34	30
400/300	729	653	729	400/300 x 9,1	1644	2337	2252	3020	684	768	34	29
400/300	729	653	729	400/300 x 10,7	1860	2668	2569	3543	875	974	38	33
400/300	729	653	729	400/300 x 12,2	2074	2997	2885	4065	1068	1181	41	36
500/400	872	793	872	500/400 x 9,1	2460	3575	3439	4430	854	990	29	24
500/400	872	793	872	500/400 x 10,7	2794	4095	3937	5200	1105	1264	32	27
500/400	872	793	872	500/400 x 12,2	3125	4612	4431	5971	1359	1540	35	29
600/500	1036	946	1036	600/500 x 9,1	3451	5224	5008	6314	1090	1306	26	21
600/500	1036	946	1036	600/500 x 10,7	3911	5978	5726	7412	1434	1686	29	24
600/500	1036	946	1036	600/500 x 12,2	4366	6729	6441	8511	1782	2070	32	26

LDP-HF20019I

Double Carcass Reducer Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure (Primary)	bar	95
Min. burst pressure (Secondary)	bar	38
Minimum Bending Radius		6 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Net buoyan- cy full of water	Net buoy- ancy full of oil	R.B. full of oil	R.B. full of water
	d1	d2	d3									
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
200/150	480	410	480	200/150 x 10,7	899	1100	1076	1413	313	337	31	28
200/150	480	410	480	200/150 x 12,2	1002	1233	1205	1619	386	414	34	31
250/200	578	507	578	250/200 x 9,1	1084	1392	1354	1834	442	479	35	32
250/200	578	507	578	250/200 x 10,7	1229	1589	1545	2149	560	604	39	35
250/200	578	507	578	250/200 x 12,2	1374	1784	1734	2464	680	730	42	38
300/250	646	569	646	300/250 x 9,1	1400	1884	1825	2319	435	494	27	23
300/250	646	569	646	300/250 x 10,7	1585	2150	2081	2716	566	635	31	26
300/250	646	569	646	300/250 x 12,2	1769	2415	2336	3113	698	777	33	29
400/300	738	662	738	400/300 x 9,1	1716	2409	2324	3111	702	787	34	29
400/300	738	662	738	400/300 x 10,7	1944	2752	2653	3649	897	996	38	33
400/300	738	662	738	400/300 x 12,2	2170	3093	2981	4187	1094	1207	40	35
500/400	882	802	882	500/400 x 9,1	2564	3679	3543	4540	860	996	28	23
500/400	882	802	882	500/400 x 10,7	2916	4217	4059	5329	1112	1270	31	26
500/400	882	802	882	500/400 x 12,2	3265	4752	4570	6118	1367	1548	34	29
600/500	1036	946	1036	600/500 x 9,1	3535	5307	5091	6314	1007	1223	26	21
600/500	1036	946	1036	600/500 x 10,7	4004	6072	5820	7412	1340	1592	27	22
600/500	1036	946	1036	600/500 x 12,2	4469	6833	6545	8511	1678	1966	30	25

LDP-HF20021I

Double Carcass Reducer Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure (Primary)	bar	105
Min. burst pressure (Secondary)	bar	42
Minimum Bending Radius		6 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS

d3

d2

d1



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9 (Kg)	Displa- cement	Net buoyan- cy full of water	Net buoy- ancy full of oil	R.B. full of oil	R.B. full of water
	d1	d2	d3									
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
200/150	480	410	480	200/150 x 10,7	899	1100	1076	1413	313	337	31	28
200/150	480	410	480	200/150 x 12,2	1002	1233	1205	1619	386	414	34	31
250/200	578	507	578	250/200 x 9,1	1095	1403	1365	1834	431	468	34	31
250/200	578	507	578	250/200 x 10,7	1242	1601	1557	2149	548	592	38	34
250/200	578	507	578	250/200 x 12,2	1388	1798	1748	2464	666	716	41	37
300/250	646	569	646	300/250 x 9,1	1400	1884	1825	2319	435	494	27	23
300/250	646	569	646	300/250 x 10,7	1585	2150	2081	2716	566	635	31	26
300/250	646	569	646	300/250 x 12,2	1769	2415	2336	3113	698	777	33	29
400/300	746	670	746	400/300 x 9,1	1799	2491	2407	3188	697	781	32	28
400/300	746	670	746	400/300 x 10,7	2041	2849	2751	3739	890	988	36	31
400/300	746	670	746	400/300 x 12,2	2282	3206	3093	4290	1085	1197	39	34
500/400	882	802	882	500/400 x 9,1	2511	3626	3491	4540	913	1049	30	25
500/400	882	802	882	500/400 x 10,7	2854	4155	3997	5329	1174	1332	33	28
500/400	882	802	882	500/400 x 12,2	3194	4681	4499	6118	1438	1619	36	31
600/500	1055	956	1055	600/500 x 9,1	3583	5355	5139	6462	1107	1323	26	21
600/500	1055	956	1055	600/500 x 10,7	4059	6127	5875	7583	1456	1708	29	24
600/500	1055	956	1055	600/500 x 12,2	4531	6895	6606	8704	1809	2097	32	26

LDP-HF20015J

Double Carcass Tail Full Floating Hose

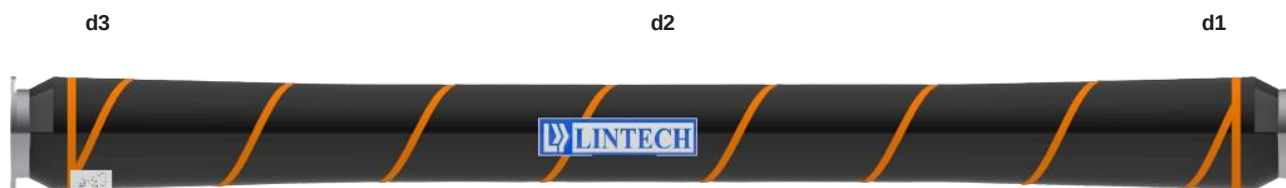
CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure (Primary)	bar	75
Min. burst pressure (Secondary)	bar	30
Minimum Bending Radius		6 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Net buoyan- cy full of water	Net buoyan- cy full of oil	R.B. full of oil	R.B. full of water
	d1	d2	d3									
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	471	404	471	150 x 10,7	849	1051	1027	1371	320	345	34	30
150	471	404	471	150 x 12,2	948	1179	1151	1572	393	421	37	33
200	575	507	575	200 x 9,1	1053	1361	1323	1832	471	508	38	35
200	575	507	575	200 x 10,7	1198	1557	1514	2147	589	633	42	38
200	575	507	575	200 x 12,2	1342	1752	1702	2462	710	760	45	40
250	643	569	643	250 x 9,1	1344	1828	1769	2317	488	547	31	27
250	643	569	643	250 x 10,7	1528	2093	2024	2714	621	690	34	30
250	643	569	643	250 x 12,2	1710	2355	2277	3110	755	834	37	32
300	693	620	693	300 x 9,1	1585	2278	2193	2744	467	551	25	20
300	693	620	693	300 x 10,7	1800	2608	2510	3216	608	706	28	23
300	693	620	693	300 x 12,2	2013	2936	2823	3687	751	864	31	26
400	872	796	872	400 x 9,1	2423	3538	3402	4459	921	1057	31	26
400	872	796	872	400 x 10,7	2763	4064	3905	5236	1172	1331	34	29
400	872	796	872	400 x 12,2	3099	4586	4405	6012	1426	1608	36	31
500	1031	944	1031	500 x 9,1	3358	5130	4914	6283	1153	1369	28	22
500	1031	944	1031	500 x 10,7	3816	5883	5631	7378	1494	1747	31	25
500	1031	944	1031	500 x 12,2	4269	6632	6344	8472	1840	2128	34	28

LDP-HF20019J

Double Carcass Tail Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure (Primary)	bar	95
Min. burst pressure (Secondary)	bar	38
Minimum Bending Radius		6 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Net buoyan- cy full of water	Net buoyan- cy full of oil	R.B. full of oil	R.B. full of water
	d1	d2	d3									
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	481	414	481	150 x 10,7	894	1096	1072	1438	342	366	34	31
150	481	414	481	150 x 12,2	1000	1230	1202	1648	417	446	37	34
200	575	507	575	200 x 9,1	1053	1361	1323	1832	471	508	38	35
200	575	507	575	200 x 10,7	1198	1557	1514	2147	589	633	42	38
200	575	507	575	200 x 12,2	1342	1752	1702	2462	710	760	45	40
250	643	569	643	250 x 9,1	1360	1844	1785	2317	473	532	30	26
250	643	569	643	250 x 10,7	1545	2110	2041	2714	604	673	33	29
250	643	569	643	250 x 12,2	1729	2374	2296	3110	736	815	35	31
300	702	629	702	300 x 9,1	1656	2349	2264	2831	482	567	25	21
300	702	629	702	300 x 10,7	1883	2691	2592	3317	626	725	28	23
300	702	629	702	300 x 12,2	2107	3031	2918	3803	773	885	30	25
400	882	805	882	400 x 9,1	2526	3641	3505	4570	928	1064	30	25
400	882	805	882	400 x 10,7	2884	4185	4026	5365	1180	1339	33	28
400	882	805	882	400 x 12,2	3238	4725	4543	6160	1436	1617	36	30
500	1031	944	1031	500 x 9,1	3441	5213	4997	6283	1070	1286	26	21
500	1031	944	1031	500 x 10,7	3909	5977	5725	7378	1401	1653	29	23
500	1031	944	1031	500 x 12,2	4373	6736	6448	8472	1736	2024	31	26

LDP-HF20021J

Double Carcass Tail Full Floating Hose

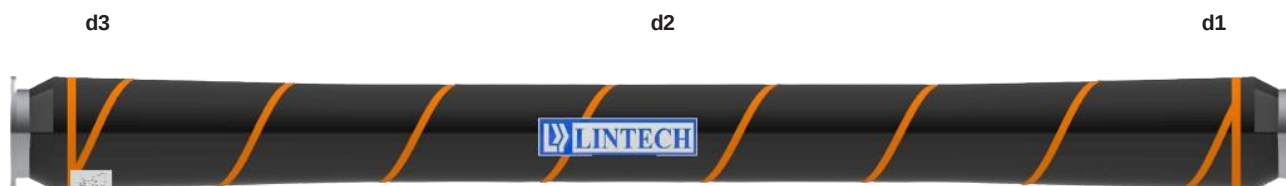
CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure (Primary)	bar	105
Min. burst pressure (Secondary)	bar	42
Minimum Bending Radius		6 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Net buoyan- cy full of water	Net buoyan- cy full of oil	R.B. full of oil	R.B. full of water
	d1	d2	d3									
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	481	414	481	150 x 10,7	894	1096	1072	1438	342	366	34	31
150	481	414	481	150 x 12,2	1000	1230	1202	1648	417	446	37	34
200	575	507	575	200 x 9,1	1064	1372	1334	1832	460	497	37	34
200	575	507	575	200 x 10,7	1211	1570	1526	2147	577	621	41	37
200	575	507	575	200 x 12,2	1356	1767	1717	2462	695	746	43	39
250	643	569	643	250 x 9,1	1360	1844	1785	2317	473	532	30	26
250	643	569	643	250 x 10,7	1545	2110	2041	2714	604	673	33	29
250	643	569	643	250 x 12,2	1729	2374	2296	3110	736	815	35	31
300	710	637	710	300 x 9,1	1739	2431	2347	2904	473	558	24	20
300	710	637	710	300 x 10,7	1981	2789	2690	3403	614	713	26	22
300	710	637	710	300 x 12,2	2220	3144	3031	3901	758	870	29	24
400	882	805	882	400 x 9,1	2474	3589	3453	4570	981	1117	32	27
400	882	805	882	400 x 10,7	2823	4123	3965	5365	1242	1400	35	30
400	882	805	882	400 x 12,2	3168	4654	4473	6160	1506	1687	38	32
500	1050	954	1050	500 x 9,1	3488	5260	5044	6431	1171	1387	27	22
500	1050	954	1050	500 x 10,7	3963	6031	5779	7548	1517	1769	31	25
500	1050	954	1050	500 x 12,2	4434	6797	6509	8664	1868	2156	33	27

LDP-HF20015K

Double Carcass Tanker Rail Dumbbell Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure (Primary)	bar	75
Min. burst pressure (Secondary)	bar	30
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Net buoyan- cy full of water	Net buoyan- cy full of oil	R.B. full of oil	R.B. full of water
	d1	d2	d3									
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	619	332	547	150 x 10,7	1019	1221	1197	1801	580	604	51	47
150	619	332	547	150 x 12,2	1155	1385	1357	2012	627	655	48	45
200	686	435	614	200 x 9,1	1170	1478	1440	2260	782	820	57	53
200	686	435	614	200 x 10,7	1347	1707	1663	2492	786	830	50	46
200	686	435	614	200 x 12,2	1525	1936	1885	2800	865	915	49	45
250	815	493	708	250 x 9,1	1511	1995	1936	2997	1002	1061	55	50
250	815	493	708	250 x 10,7	1744	2309	2240	3295	986	1055	47	43
250	815	493	708	250 x 12,2	1977	2622	2544	3697	1075	1154	45	41
300	942	548	870	300 x 9,1	1807	2500	2415	3843	1344	1428	59	54
300	942	548	870	300 x 10,7	2091	2899	2800	4212	1313	1412	50	45
300	942	548	870	300 x 12,2	2375	3298	3185	4765	1467	1579	50	44
400	1117	688	1046	400 x 9,1	2633	3748	3612	5468	1720	1856	51	46
400	1117	688	1046	400 x 10,7	3053	4354	4195	6048	1695	1853	44	39
400	1117	688	1046	400 x 12,2	3473	4959	4778	6878	1919	2100	44	39
500	1266	837	1230	500 x 9,1	3557	5329	5113	7397	2067	2283	45	39
500	1266	837	1230	500 x 10,7	4101	6169	5917	8255	2086	2338	40	34
500	1266	837	1230	500 x 12,2	4646	7009	6721	9441	2432	2720	40	35

LDP-HF20019K

Double Carcass Tanker Rail Dumbbell Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure (Primary)	bar	95
Min. burst pressure (Secondary)	bar	38
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Net buoyan- cy full of water	Net buoyan- cy full of oil	R.B. full of oil	R.B. full of water
	d1	d2	d3									
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	628	342	557	150 x 10,7	1066	1268	1243	1874	607	631	51	48
150	628	342	557	150 x 12,2	1208	1439	1411	2095	656	685	49	46
200	686	435	614	200 x 9,1	1170	1478	1440	2260	782	820	57	53
200	686	435	614	200 x 10,7	1347	1707	1663	2492	786	830	50	46
200	686	435	614	200 x 12,2	1525	1936	1885	2800	865	915	49	45
250	815	493	708	250 x 9,1	1526	2010	1951	2997	987	1046	54	49
250	815	493	708	250 x 10,7	1761	2326	2257	3295	969	1038	46	42
250	815	493	708	250 x 12,2	1996	2642	2563	3697	1056	1134	44	40
300	952	558	880	300 x 9,1	1880	2572	2488	3943	1371	1456	59	53
300	952	558	880	300 x 10,7	2176	2984	2885	4325	1341	1440	50	45
300	952	558	880	300 x 12,2	2472	3395	3283	4893	1498	1610	49	44
400	1127	697	1055	400 x 9,1	2737	3852	3716	5588	1736	1872	50	45
400	1127	697	1055	400 x 10,7	3175	4476	4318	6184	1708	1867	43	38
400	1127	697	1055	400 x 12,2	3614	5100	4919	7033	1933	2114	43	38
500	1266	837	1230	500 x 9,1	3640	5413	5197	7397	1984	2200	42	37
500	1266	837	1230	500 x 10,7	4195	6263	6011	8255	1992	2244	37	32
500	1266	837	1230	500 x 12,2	4750	7113	6825	9441	2328	2616	38	33

LDP-HF20021K

Double Carcass Tanker Rail Dumbbell Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinforc.	Steel cord skimmed with rubber
Secondary carcass reinforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure (Primary)	bar	105
Min. burst pressure (Secondary)	bar	42
Minimum Bending Radius		4 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Net buoyan- cy full of water	Net buoyan- cy full of oil	R.B. full of oil	R.B. full of water
	d1	d2	d3									
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	628	342	557	150 x 10,7	1066	1268	1243	1874	607	631	51	48
150	628	342	557	150 x 12,2	1208	1439	1411	2095	656	685	49	46
200	686	435	614	200 x 9,1	1181	1489	1451	2260	771	809	56	52
200	686	435	614	200 x 10,7	1360	1719	1675	2492	773	817	49	45
200	686	435	614	200 x 12,2	1539	1950	1900	2800	851	901	47	44
250	815	493	708	250 x 9,1	1526	2010	1951	2997	987	1046	54	49
250	815	493	708	250 x 10,7	1761	2326	2257	3295	969	1038	46	42
250	815	493	708	250 x 12,2	1996	2642	2563	3697	1056	1134	44	40
300	960	566	888	300 x 9,1	1963	2656	2571	4028	1372	1456	57	52
300	960	566	888	300 x 10,7	2275	3083	2985	4420	1337	1436	48	43
300	960	566	888	300 x 12,2	2587	3511	3398	5001	1491	1604	47	42
400	1127	697	1055	400 x 9,1	2685	3800	3664	5588	1788	1924	53	47
400	1127	697	1055	400 x 10,7	3114	4415	4256	6184	1769	1928	45	40
400	1127	697	1055	400 x 12,2	3543	5030	4849	7033	2003	2185	45	40
500	1276	846	1240	500 x 9,1	3688	5461	5245	7554	2093	2310	44	38
500	1276	846	1240	500 x 10,7	4251	6318	6066	8432	2114	2366	39	33
500	1276	846	1240	500 x 12,2	4813	7176	6888	9641	2465	2754	40	34

LDP-HF20015L

Double Carcass Fully Reinforced Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reforc.	Steel cord skimmed with rubber
Secondary carcass reforc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	15
Min. burst pressure (Primary)	bar	75
Min. burst pressure (Secondary)	bar	30
Minimum Bending Radius		6 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Net buoyan- cy full of water	Net buoyan- cy full of oil	R.B. full of oil	R.B. full of water
	d1	d2	d3									
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	475	404	475	150 x 10,7	850	1052	1027	1373	321	346	34	31
150	475	404	475	150 x 12,2	949	1179	1151	1573	394	422	37	33
200	586	514	586	200 x 9,1	1106	1413	1376	1890	476	514	37	34
200	586	514	586	200 x 10,7	1260	1619	1575	2215	596	640	41	37
200	586	514	586	200 x 12,2	1412	1823	1773	2539	717	767	43	39
250	654	576	654	250 x 9,1	1406	1890	1831	2382	492	551	30	26
250	654	576	654	250 x 10,7	1600	2165	2096	2790	625	694	33	29
250	654	576	654	250 x 12,2	1793	2438	2359	3197	759	838	36	31
300	701	624	701	300 x 9,1	1623	2315	2231	2789	473	558	25	20
300	701	624	701	300 x 10,7	1844	2652	2554	3267	615	713	28	23
300	701	624	701	300 x 12,2	2063	2987	2874	3745	759	871	30	25
400	883	807	883	400 x 9,1	2525	3640	3504	4588	948	1083	31	26
400	883	807	883	400 x 10,7	2882	4183	4025	5386	1203	1361	34	29
400	883	807	883	400 x 12,2	3236	4723	4542	6184	1461	1643	36	31
500	1051	964	1051	500 x 9,1	3576	5349	5133	6554	1205	1421	28	23
500	1051	964	1051	500 x 10,7	4072	6140	5888	7695	1555	1807	31	25
500	1051	964	1051	500 x 12,2	4563	6926	6638	8835	1909	2197	33	28
600	1226	1129	1226	600 x 9,1	4853	7439	7123	8967	1529	1844	26	21
600	1226	1129	1226	600 x 10,7	5520	8537	8169	10532	1996	2364	29	23
600	1226	1129	1226	600 x 12,2	6181	9629	9209	12097	2468	2889	31	26

LDP-HF20019L

Double Carcass Fully Reinforced Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinfrc.	Steel cord skimmed with rubber
Secondary carcass reinfrc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	19
Min. burst pressure (Primary)	bar	95
Min. burst pressure (Secondary)	bar	38
Minimum Bending Radius		6 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Net buoyan- cy full of water	Net buoyancy full of oil	R.B. full of oil	R.B. full of water
	d1	d2	d3									
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	484	414	484	150 x 10,7	895	1097	1072	1440	343	368	34	31
150	484	414	484	150 x 12,2	1000	1231	1203	1649	418	447	37	34
200	586	514	586	200 x 9,1	1106	1413	1376	1890	476	514	37	34
200	586	514	586	200 x 10,7	1260	1619	1575	2215	596	640	41	37
200	586	514	586	200 x 12,2	1412	1823	1773	2539	717	767	43	39
250	654	576	654	250 x 9,1	1421	1905	1846	2382	477	536	29	25
250	654	576	654	250 x 10,7	1618	2182	2113	2790	608	676	32	28
250	654	576	654	250 x 12,2	1812	2457	2378	3197	740	819	34	30
300	710	634	710	300 x 9,1	1695	2387	2303	2876	489	573	25	20
300	710	634	710	300 x 10,7	1928	2736	2637	3369	633	732	28	23
300	710	634	710	300 x 12,2	2159	3082	2970	3863	780	893	30	25
400	892	816	892	400 x 9,1	2630	3745	3609	4699	954	1090	30	25
400	892	816	892	400 x 10,7	3006	4307	4148	5517	1210	1369	33	28
400	892	816	892	400 x 12,2	3378	4865	4683	6335	1470	1651	35	30
500	1051	964	1051	500 x 9,1	3660	5433	5217	6554	1121	1337	26	21
500	1051	964	1051	500 x 10,7	4167	6234	5982	7695	1460	1712	29	23
500	1051	964	1051	500 x 12,2	4668	7032	6743	8835	1804	2092	31	26
600	1262	1156	1262	600 x 9,1	5062	7648	7333	9371	1723	2039	28	23
600	1262	1156	1262	600 x 10,7	5763	8780	8412	11011	2231	2599	31	25
600	1262	1156	1262	600 x 12,2	6459	9907	9486	12652	2745	3166	33	28

LDP-HF20021L

Double Carcass Fully Reinforced Full Floating Hose

CONSTRUCTION

Oil resistant liner	NBR
Primary carcass reinfrc.	Steel cord skimmed with rubber
Secondary carcass reinfrc.	Textile cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

PERFORMANCE

Rated Working Pressure	bar	21
Min. burst pressure (Primary)	bar	105
Min. burst pressure (Secondary)	bar	42
Minimum Bending Radius		6 x ID
Max. temp. elong.	%	2,5
Max. perm. elong.	%	0,7
Aromatic resistance UP TO	%	80
Fluid temp. Range	°C	-20; +82
Ambient temp. Range	°C	-29; +52
Flow velocity UP TO	m/s	21
Electrically (as requested)		Continuous / Discontinuous

CHARACTERISTICS



Nomin. Diam.	Hose O.D.			Size	Weight in air empty	Weight in air full of water	Weight in air full of oil s.g. = 0,9	Displa- cement	Net buoyan- cy full of water	Net buoyancy full of oil	R.B. full of oil	R.B. full of water
	d1	d2	d3									
(mm)	(mm)	(mm)	(mm)	(mm x m)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
150	484	414	484	150 x 10,7	895	1097	1072	1440	343	368	34	31
150	484	414	484	150 x 12,2	1000	1231	1203	1649	418	447	37	34
200	586	514	586	200 x 9,1	1117	1424	1387	1890	465	503	36	33
200	586	514	586	200 x 10,7	1272	1631	1588	2215	583	627	39	36
200	586	514	586	200 x 12,2	1426	1837	1787	2539	702	752	42	38
250	654	576	654	250 x 9,1	1421	1905	1846	2382	477	536	29	25
250	654	576	654	250 x 10,7	1618	2182	2113	2790	608	676	32	28
250	654	576	654	250 x 12,2	1812	2457	2378	3197	740	819	34	30
300	723	647	723	300 x 9,1	1778	2470	2386	2993	523	607	25	21
300	723	647	723	300 x 10,7	2027	2834	2736	3507	672	771	28	24
300	723	647	723	300 x 12,2	2273	3196	3083	4020	824	937	30	26
400	892	816	892	400 x 9,1	2577	3692	3556	4699	1008	1144	32	27
400	892	816	892	400 x 10,7	2943	4244	4085	5517	1273	1432	35	30
400	892	816	892	400 x 12,2	3306	4793	4611	6335	1542	1723	37	32
500	1069	974	1069	500 x 9,1	3709	5481	5265	6705	1224	1440	27	22
500	1069	974	1069	500 x 10,7	4222	6290	6038	7868	1578	1831	30	25
500	1069	974	1069	500 x 12,2	4731	7094	6806	9032	1938	2226	33	27
600	1281	1175	1281	600 x 9,1	5233	7819	7504	9692	1873	2188	29	24
600	1281	1175	1281	600 x 10,7	5959	8976	8608	11387	2412	2779	32	27
600	1281	1175	1281	600 x 12,2	6679	10127	9706	13082	2956	3376	35	29