POSEIDON Marine Hoses

manuli®
RUBBER INDUSTRIES

Printed in Italy - April 2014 - FIRST EDITION - CPZ

POSEIDON LINE

ACCORDING TO GMPHOM 2009

OIL & MARINE

manuli® RUBBER INDUSTRIES

SUMMARY

- **Manuli** entered the oil and marine business in 1973, when it was trading as Uniroyal –Manuli SpA, a joint venture owned 50 % by Uniroyal, and 50 % by Dardanio Manuli SpA

Manuli Rubber Industries: main hose plant established in 1973 (Italy)

- In 1973 established its modern hose production facility at Ascoli Piceno in Italy
- Factory awarded with the first ISO 9001 by DNV in 1992, renewed in 2002 as ISO 9001"Vision 2000"
- 1986, Dardanio Manuli SpA purchased Uniroyal's stake in thecompany
- Uniroyal – Manuli Rubber SpA name changed also on three other occasions:

  (i) to Uniroyal – Manuli Rubber Srl in 1988

  (ii) to Manuli Rubber Industries Srl in 1990

  (iii) to Manuli Rubber Industries SpA in1997

OIL & MARINE MILESTONES

In 2005 Manuli Rubber Industries S.p.A. created a new division completely dedicated to the Oil and Marine Business

- Capitalize on the high level of business opportunities within the international petroleum community
- Improve the manufacturing facilities
- Modernize the manufacturing layout and capabilities in accordance with the strictest international product rules in the latest edition and industrial standards ISO 9001 & API Q1.

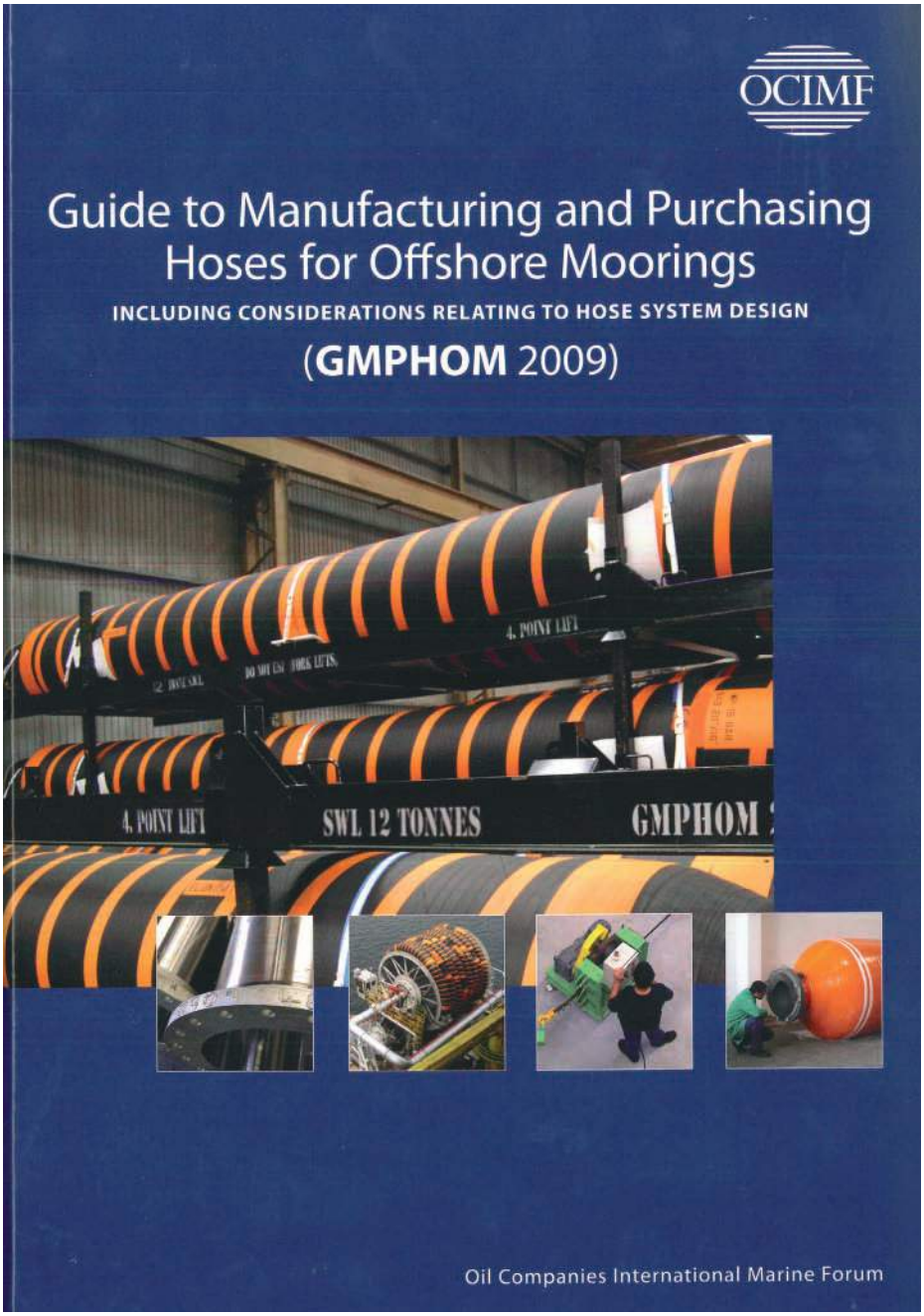
Manuli Rubber Industries, with its 70 years of experience developing technical products, is recognized worldwide as a leader in terms of innovation, quality and performance.
To strengthen this leadership, the MRI research and development activities ane carried out by the **MHIC** (Manuli Hydraulics Innovation Center) in Bologna, in the core of a region with a high density of universities and skilled professionals.
The facility of the T&PD Centre has a **covered area of more than 2,000 square meters**, and is equipped with state-of-the-art test and laboratory equipment, able to offer **research, product development and training** for the MRI Group worldwide.
The team of engineers is dedicated to creating new products and keeping Manuli one step ahead in our fast paced industry. MRI engineers use the most up-to-date computer modeling procedures and work closely with the customer to ensure customer satisfaction.
As a back-up to our own in-house R&D Department, we frequently call on the services of the specialised test engineers and equipment of third party specialists who are in a position to produce detailed unbiased reports.

Manuli Rubber Industries also has the in-house capabilities to computer model hose systems, both static and dynamic analysis, from SPM hose strings to complete long length elastomeric hose systems, such as extended well tests and export off-take systems.

Aldo Occari Technology and Product Development Centre (Italy)

OIL & MARINE PRODUCTS CERTIFICATIONS

Guide to Manufacturing and Purchasing Hoses for OffshoreMoorings, Fifth Edition 2009. Issued by: Oil Companies International Marine Forum (OCIMF) Fully effective starting from: June 2012.



OIL & MARINE QUALITY SYSTEM CERTIFICATIONS

Manuli Oil & Marine Division Quality system has been recognized, through thefollowing certifications, being in accordance to the ISO & API Q1Standards

DET NORSKE VERITAS

QUALITY MANAGEMENT SYSTEM CERTIFICATE

MANULI RUBBER INDUSTRIES S.p.A. – OIL & MARINE

Z.I. Campolungo - Via 234A, 85/A - 63100 Ascoli Piceno (AP) - Italy

UNI EN ISO 9001:2008 (ISO 9001:2008)

Progettazione, produzione e assistenza all'installazione di tubi oil e long length per applicazioni marine e banchina, per il trasporto di prodotti petroliferi, chimici e gas

Design, production and assistance on field of oil and long length hoses for offshore and onshore applications, for transport of oil, chemical and LPG products

SINCERT

DET NORSKE VERITAS

ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

MANULI RUBBER INDUSTRIES S.p.A.

Z.I. Campolungo - 63100 Ascoli Piceno (AP) - Italy

UNI EN ISO 14001: 1996 (ISO 14001: 1996)

Progettazione, produzione e vendita di tubi idraulici flessibili con rinforzi metallici e tessili, tubi industriali, tubi oil e long length per applicazioni marine, tubi tessili per applicazioni auto. Progettazione e vendita di raccordi, adattatori ed assemblati idraulici

Design, manifacture and sale of hydraulic hoses with metallic and textile reinforcement, industrial hoses, oil and long length hoses for marine applications, textile hoses for automotive applications. Design and sale of hydraulic fittings, adaptors and hose assemblies

SINCERT

REGISTRATION NO. Q1-1703

Certificate of Registration

The American Petroleum Institute certifies that the quality management system of

MANULI RUBBER INDUSTRIES SPA
Zona Industriale Campolungo
Ascoli Piceno, Ascoli Piceno
Italy

has been assessed by the American Petroleum Institute and found to be in conformance with the following:

API Specification Q1

The scope of this registration and the approved quality management system applies to the:

Design and Manufacture of Hoses for the Transport of Oil, Chemical and LPG Products and Long Length Hoses in Onshore and Offshore Applications

API approves the organization's justification for excluding:

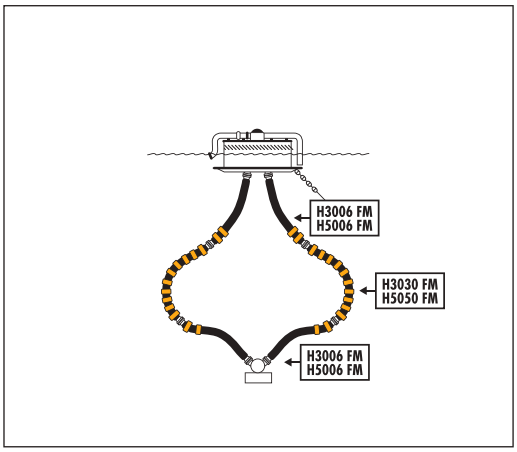
No Exclusions Identified as Applicable

Effective Date: January 30, 2013
Expiration Date: January 30, 2016
Registered Since: January 30, 2013

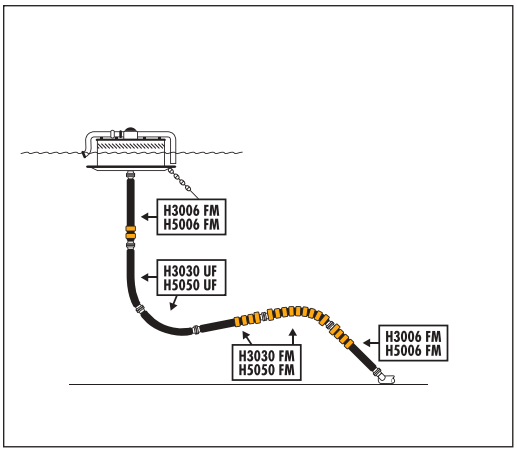
Manager of Operations, APIQR

API Spec Q1 Registered

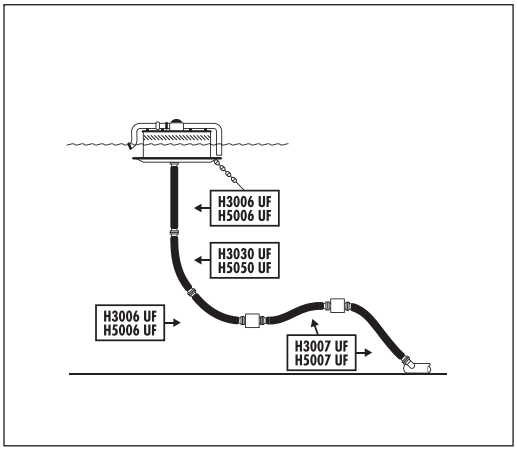
OFF-SHORE MAIN CONFIGURATIONS



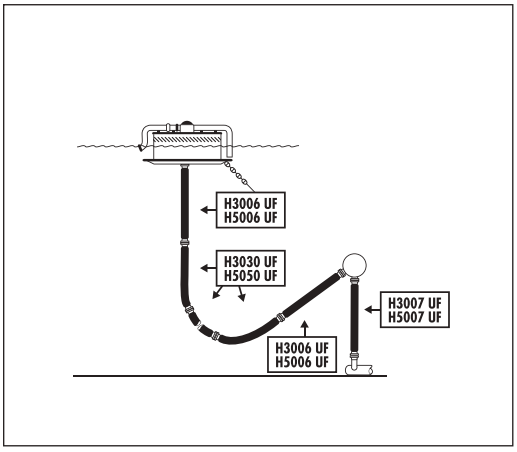
Chinese Lantern



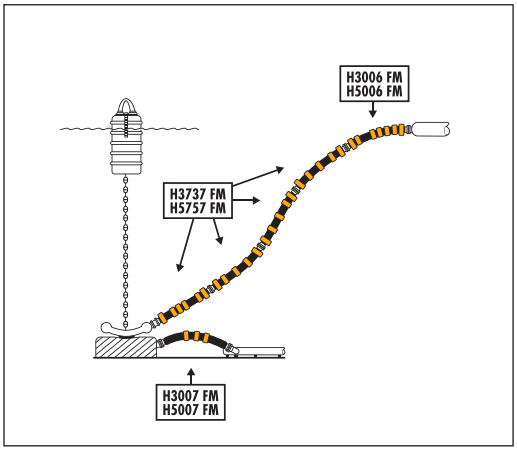
Lazy S (B.F.)



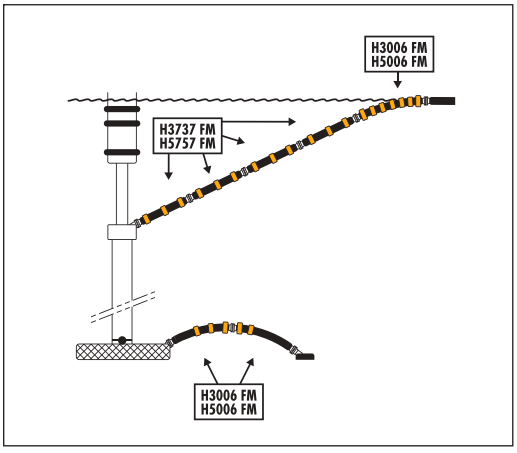
Lazy S (B.T.)



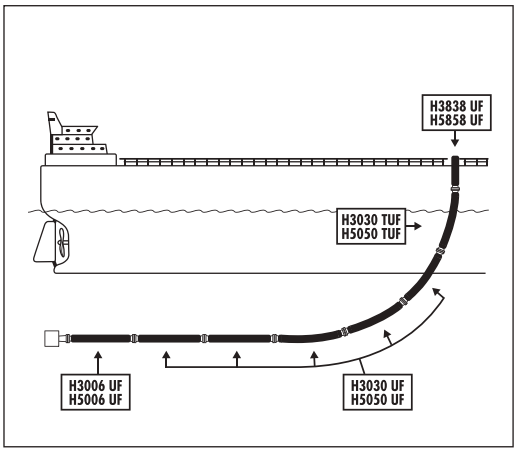
Steep S



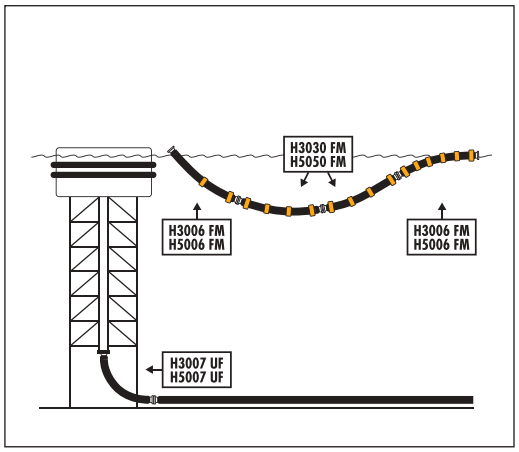
SALM (S.W.)



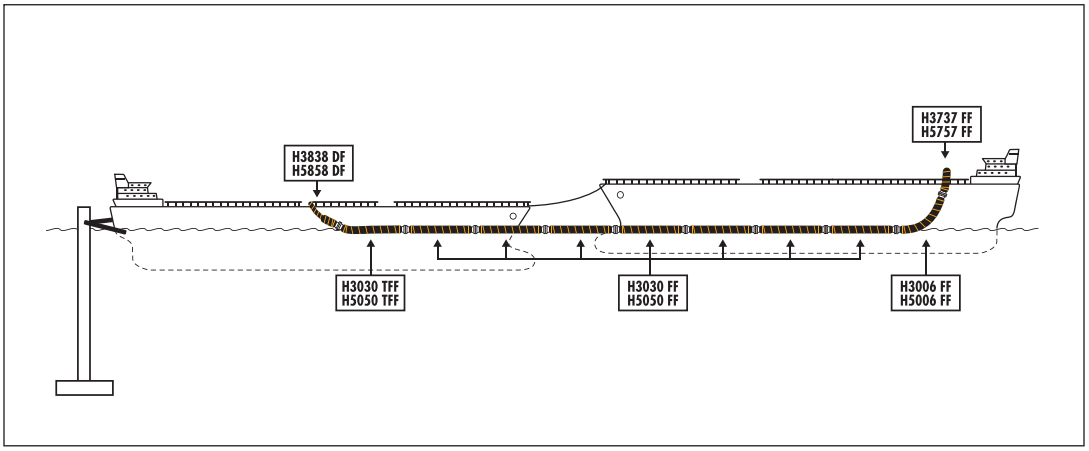
SALM (D.W.)



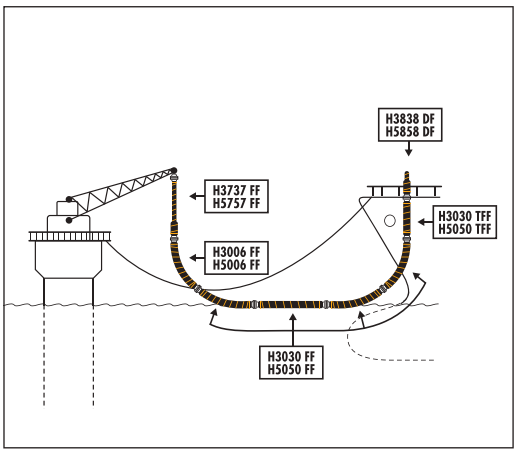
C.B.M.



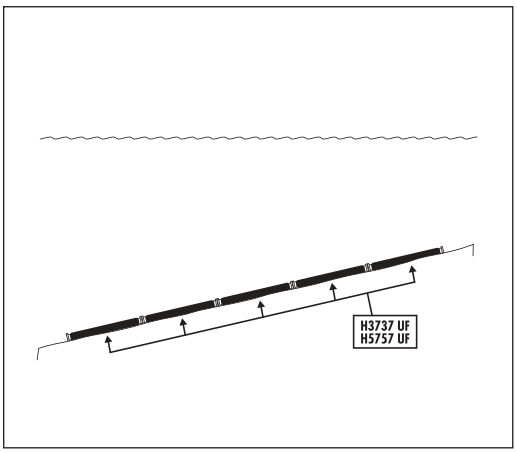
S.P.M.T.



P.M.S.T.

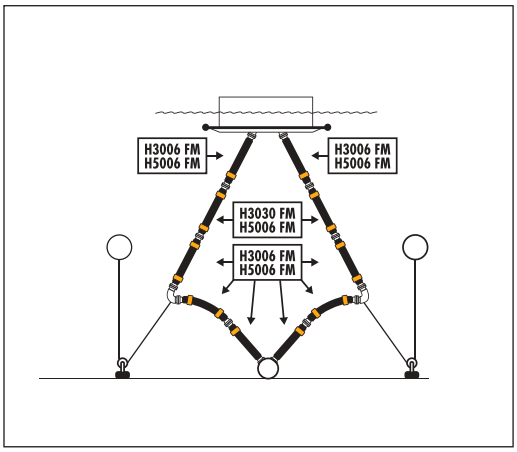


A.L.P.

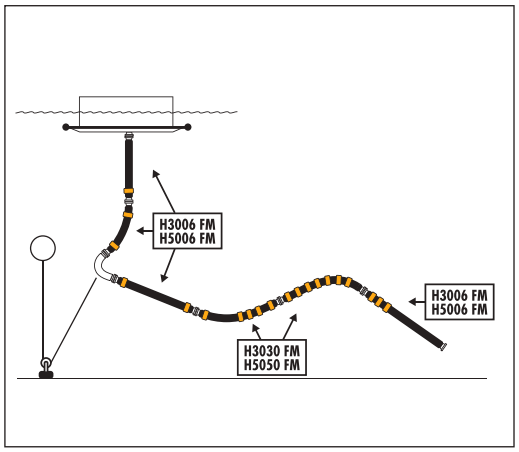


SEA-LINE Rubber Hose

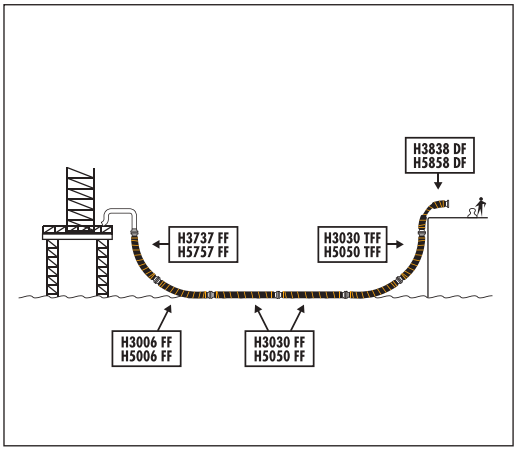
OFF-SHORE MAIN CONFIGURATIONS



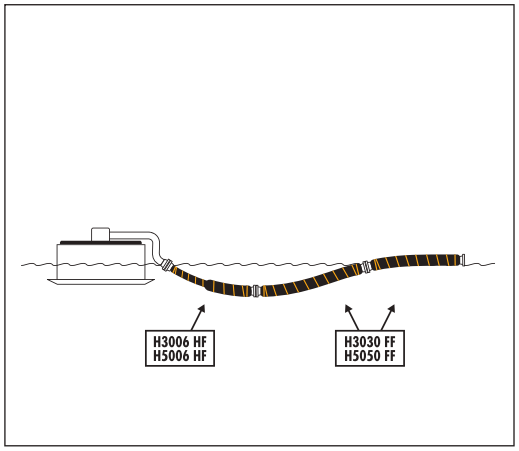
M.A.S.P.A.



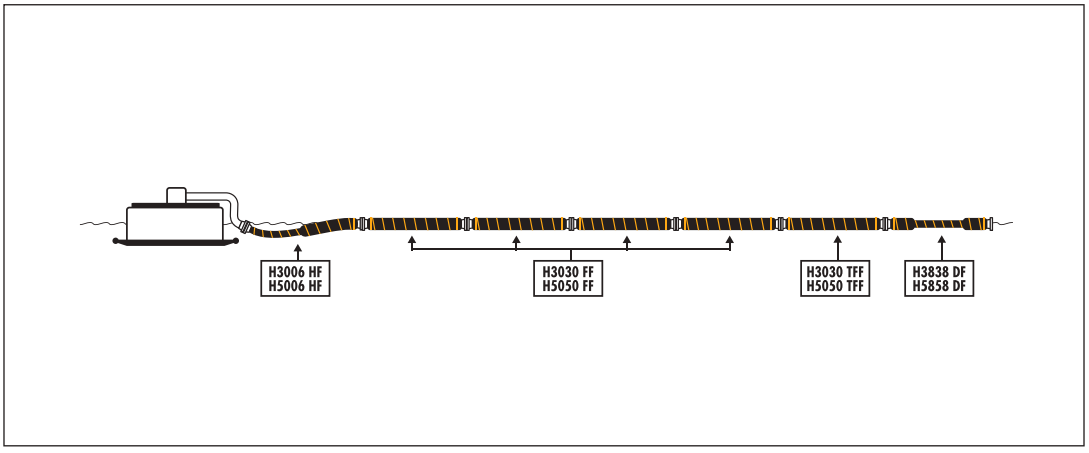
M.A.S.P.B.



PLATFORM



OFF S.P.M. HOSE



FLOATING HOSE STRING

GMPHOM 2009 SINGLE AND DOUBLE CARCASS HOSES

The new Manuli Single and Double Carcass POSEIDON hoses exceed the Guide to Manufacturing and Purchasing Hoses for Offshore Moorings, Fifth Edition 2009 issued by Oil Companies International Marine Forum (OCIMF).

- Have liner compounds with high aromatic resistance
- Have Superior Pressure Surge resistance
- Have Higher Collapse Resistance
- Have Higher Tensile Load Resistance and Increased Resistance to Bending
- Have Higher resistance of the Secondary Carcass of Double Carcass Hoses
- Are equipped with New lifting lugs for higher SWL (Safe Working Loads)
- Have New mechanical Leak Detectors for Double Carcass Hoses
- Are designed with two independent carcasses in case of double carcass hoses
- Have higher Burst Pressures
- Have higher Adhesion values between layers
- Have negligible buoyancy loss of buoyancy material under external pressure
- Have higher cover abrasion resistance
- Show no hose degradation after dynamic test

All Manuli marine hoses are manufactured and tested according to GMPHOM 2009 rules and meet special requirements of other specifications from the major Petroleum Company.

Each hose is built following specific technical instructions and under a strictcontrol by Quality Control DPT.

On request hoses for special application can be manufactured.

Wire helix application

Lining application

Very long working life

Steel cord reinforcement application

Rubber lining to handle higher aromatic contents

The rubber compound is constantly exposed to crude oil and the adhesion between the inner lining and the adjacent carcass must work against the forces created by the flow of crude oil through the hose. Because it is so critical, Manuli applies an extruded tube to a carefully prepared mandrel by means of continuous extrusion of hot, uncured rubber. The extrusion is applied in a spiral at constant pitch, tension, and overlap. The curing process yields a uniform lining that is tightly fitted around the mandrel and remarkably smooth. Our standard tube compound is capable of handling aromatic content up to 80%.

Steel wire cord Reinforcement

The spiral reinforcing layers within the carcass of the hose contain the pressure and control the movement of the hose under load. The main reinforcement of **all Manuli Rubber Industries marine hose is steel tire cord** applied at an optimum angle to give maximum pressure retention and maxi maximum stability. Using steel wire cords Manuli designs marine hoses (single and double carcass) with low elongations and zero twist (we achieve a temporary elongation of up to 1% at test pressure, with **zero twist and zero permanent elongation**.) still proving a hose with flexibility superior to hoses with synthetic fabric. The fatigue characteristics of steel wire cord and the stability of construction in working conditions result in a longer working life for the hose.

Zero twist and zero permanent elongation

Regardless of the application, a hose is a flexible link providing a service where rigid pipe work would not survive. Using steel cord plies, we engineer a stable and predicable product **with low elongation and zero twist**, yet still provide a hose with **flexibility superior** to multilayer synthetic fabric reinforced hoses.

Superior Fatigue resistance

The fatigue resistance characteristics of steel cord and the stability of the construction in working conditions result in a **longer working life** for the hose. An example of the fatigue capability of steel cord comes from the modem tire industry. **Ninety five percent of automobile tires now use steel cord reinforcement** rather than synthetic fiber materials. These tires far exceed the performance of the previous cross-ply textile construction. The average steel belted tire can now be expected to complete more than 29 million flex cycles (revolutions) during its useful life. **Manuli Rubber Industries uses steel tire cord** in their marine hose construction. By its daily usage in automobile tires, steel cord continues to demonstrate its superior ability to absorb fatigue. If this aspect is relate to a marine hose where the source of the movement is the wave action and considering (for example) a wave cycle of one minute the tire test would relate to a 90 year flex fatigue life on marine hose applications.

Superior Pressure Surge resistance

The steel cords are applied at an optimum angle, which gives low elongation but still provides sufficient movement and resilience to absorb sudden pressure surges. Each individual cord is pre-tensioned on application to ensure that they are effectively sharing the load.

Superior Foam Material for Floating Hoses

Floating marine hose employs layers of foam to give the required buoyancy. Manuli marine hose uses **closed-cell polyethylene foam**. This high quality foam provide excellent flexibility, no water absorption, low buoyancy decay, and high rebound from crush loads (including auto-submersion).

Hose outer cover

The tube, main carcass, and floatation layers of the hose are protected from the external environment by the cover which is specially compounded for weather, sea water, oil, and abrasion resistant. The properties of the outer cover often play a major role in the working life of the hose. **Manuli Rubber Industries has developed a special chloroprene cover compound** to give our marine hose maximum resistance to abrasion, weathering, and fluid attack, seawater, aromatic oils.

H3006 UF POSEIDON pag. 17
One end reinforced Submarine Hose

H3030 UF POSEIDON pag. 20
Mainline Submarine Hose

H3232 UF POSEIDON pag. 23
Reducer Submarine Hose

H3030T UF POSEIDON pag. 26
Tail Submarine Hose

H3838 UF POSEIDON pag. 29
Tanker Rail Submarine Hose

H3737 UF POSEIDON pag. 32
Fully reinforced Submarine Hose

ON REQUEST

the submarine hoses will be build with locations collars for the application of deep water floats.

On request hoses for special applications can be manufactured

FLOATING

SINGLE CARCASS

H3006 HF POSEIDON pag. 35
One end reinforced Submarine Hose

H3030 FF POSEIDON pag. 38
Mainline full floating Hose

H3232 FF POSEIDON pag. 41
Reducer full floating Hose

H3030T FF POSEIDON pag. 44
Tail full floating Hose

H3838 DF POSEIDON pag. 47
Tanker Rail dumbel floating Hose

H3737 FF POSEIDON pag. 50
Fully reinforced full floating Hose

On request hoses for special applications can be manufactured

One end reinforced submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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 requesteded	continuous/discontinuous	

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	286	228	279	**150 x 9,1**	385	559	538	396	163	142
150	286	228	279	**150 x 10,7**	438	640	615	460	180	155
150	286	228	279	**150 x 12,2**	490	722	694	524	198	170
200	352	290	337	**200 x 9,1**	573	883	845	633	250	212
200	352	290	337	**200 x 10,7**	652	1013	969	736	277	233
200	352	290	337	**200 x 12,2**	734	1147	1096	839	308	258
250	417	348	402	**250 x 9,1**	799	1285	1226	911	375	315
250	417	348	402	**250 x 10,7**	907	1474	1405	1059	415	346
250	417	348	402	**250 x 12,2**	1018	1666	1587	1207	459	380
300	465	398	450	**300 x 9,1**	971	1665	1580	1187	478	393
300	465	398	450	**300 x 10,7**	1097	1906	1807	1381	525	426
300	465	398	450	**300 x 12,2**	1225	2150	2038	1575	575	463
400	574	499	551	**400 x 9,1**	1506	2617	2482	1866	751	615
400	574	499	551	**400 x 10,7**	1711	3007	2849	2172	835	677
400	574	499	551	**400 x 12,2**	1919	3401	3220	2478	923	742
500	690	608	660	**500 x 9,1**	2043	3811	3595	2758	1053	837
500	690	608	660	**500 x 10,7**	2304	4366	4114	3211	1155	903
500	690	608	660	**500 x 12,2**	2577	4933	4646	3664	1269	982
600	809	716	771	**600 x 9,1**	2729	5309	4994	3830	1479	1164
600	809	716	771	**600 x 10,7**	3070	6079	5712	4460	1620	1253
600	809	716	771	**600 x 12,2**	3427	6867	6447	5089	1777	1358

H3006 UF POSEIDON

SINGLE CARCASS

One end reinforced submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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		°C	-29; +52
Flow velocity	up to	m/s	21
Electrically	as requested	continuous/discontinuous	

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	286	228	279	**150 x 9,1**	385	559	538	396	163	142
150	286	228	279	**150 x 10,7**	438	640	615	460	180	155
150	286	228	279	**150 x 12,2**	490	722	694	524	198	170
200	352	290	337	**200 x 9,1**	573	883	845	633	250	212
200	352	290	337	**200 x 10,7**	652	1013	969	736	277	233
200	352	290	337	**200 x 12,2**	734	1147	1096	839	308	258
250	417	348	402	**250 x 9,1**	814	1300	1241	911	390	330
250	417	348	402	**250 x 10,7**	923	1490	1421	1059	432	362
250	417	348	402	**250 x 12,2**	1036	1685	1606	1207	478	399
300	465	398	450	**300 x 9,1**	991	1684	1600	1187	497	413
300	465	398	450	**300 x 10,7**	1119	1928	1830	1381	547	449
300	465	398	450	**300 x 12,2**	1250	2175	2062	1575	600	487
400	574	499	551	**400 x 9,1**	1425	2536	2401	1866	670	534
400	574	499	551	**400 x 10,7**	1618	2914	2756	2172	742	584
400	574	499	551	**400 x 12,2**	1814	3296	3115	2478	818	637
500	690	608	660	**500 x 9,1**	2099	3866	3651	2758	1108	893
500	690	592	660	**500 x 10,7**	2367	4429	4117	3211	1218	966
500	690	592	660	**500 x 12,2**	2647	5003	4716	3664	1339	1052
600	809	716	771	**600 x 9,1**	2806	5386	5072	3830	1556	1242
600	809	716	771	**600 x 10,7**	3156	6166	5799	4460	1706	1339
600	809	716	771	**600 x 12,2**	3523	6963	6543	5089	1873	1454

One end reinforced submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	286	228	279	**150 x 9,1**	385	559	538	396	163	142
150	286	228	279	**150 x 10,7**	438	640	615	460	180	155
150	286	228	279	**150 x 12,2**	490	722	694	524	198	170
200	352	290	337	**200 x 9,1**	584	893	856	633	260	223
200	352	290	337	**200 x 10,7**	664	1025	981	736	289	245
200	352	290	337	**200 x 12,2**	748	1160	1110	839	322	271
250	417	348	402	**250 x 9,1**	813	1299	1240	911	389	329
250	417	348	402	**250 x 10,7**	922	1489	1420	1059	431	361
250	417	348	402	**250 x 12,2**	1035	1684	1605	1207	477	397
300	473	406	458	**300 x 9,1**	1053	1747	1662	1235	512	427
300	473	406	458	**300 x 10,7**	1194	2003	1904	1437	566	468
300	473	406	458	**300 x 12,2**	1337	2262	2149	1638	623	511
400	574	499	551	**400 x 9,1**	1463	2574	2439	1866	708	573
400	574	499	551	**400 x 10,7**	1662	2958	2800	2172	786	627
400	574	499	551	**400 x 12,2**	1864	3345	3165	2478	867	687
500	690	608	660	**500 x 9,1**	2099	3866	3651	2758	1108	893
500	690	608	660	**500 x 10,7**	2367	4429	4177	3211	1218	966
500	690	608	660	**500 x 12,2**	2647	5003	4716	3664	1339	1052
600	826	724	788	**600 x 9,1**	2955	5535	5220	3922	1613	1298
600	826	724	788	**600 x 10,7**	3330	6340	5973	4566	1774	1407
600	826	724	788	**600 x 12,2**	3722	7162	6743	5210	1953	1533

H3030 UF POSEIDON

SINGLE CARCASS

Mainline submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	279	225	279	**150 x 9,1**	373	546	525	383	163	142
150	279	225	279	**150 x 10,7**	422	625	600	445	180	155
150	279	225	279	**150 x 12,2**	472	703	675	507	197	168
200	337	282	337	**200 x 9,1**	527	837	799	601	236	198
200	337	282	337	**200 x 10,7**	598	959	915	698	261	217
200	337	282	337	**200 x 12,2**	669	1082	1031	796	286	235
250	402	340	402	**250 x 9,1**	745	1231	1172	872	360	300
250	402	340	402	**250 x 10,7**	843	1411	1341	1014	397	328
250	402	340	402	**250 x 12,2**	941	1590	1511	1155	434	355
300	450	390	450	**300 x 9,1**	918	1612	1528	1143	470	385
300	450	390	450	**300 x 10,7**	1035	1844	1745	1329	515	416
300	450	390	450	**300 x 12,2**	1151	2076	1963	1516	560	448
400	536	480	536	**400 x 9,1**	1223	2334	2198	1719	614	479
400	536	480	536	**400 x 10,7**	1380	2676	2518	2001	675	517
400	536	480	536	**400 x 12,2**	1537	3018	2838	2284	735	554
500	658	592	658	**500 x 9,1**	1843	3611	3395	2619	992	776
500	658	592	658	**500 x 10,7**	2071	4133	3882	3049	1085	833
500	658	592	658	**500 x 12,2**	2300	4656	4369	3478	1178	890
600	770	697	770	**600 x 9,1**	2504	5084	4769	3626	1457	1143
600	770	697	770	**600 x 10,7**	2808	5818	5451	4222	1596	1229
600	770	697	770	**600 x 12,2**	3112	6552	6133	4818	1734	1314

Mainline submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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		°C	-29; +52
Flow velocity	up to	m/s	21
Electrically	as requested	continuous/discontinuous	

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	279	225	279	**150 x 9,1**	373	546	525	383	163	142
150	279	225	279	**150 x 10,7**	422	625	600	445	180	155
150	279	225	279	**150 x 12,2**	472	703	675	507	197	168
200	337	282	337	**200 x 9,1**	527	837	799	601	236	198
200	337	282	337	**200 x 10,7**	598	959	915	698	261	217
200	337	282	337	**200 x 12,2**	669	1082	1031	796	286	235
250	402	340	402	**250 x 9,1**	760	1246	1187	872	375	315
250	402	340	402	**250 x 10,7**	860	1427	1358	1014	414	345
250	402	340	402	**250 x 12,2**	960	1608	1529	1155	453	374
300	450	390	450	**300 x 9,1**	938	1632	1547	1143	489	405
300	450	390	450	**300 x 10,7**	1057	1866	1768	1329	537	439
300	450	390	450	**300 x 12,2**	1176	2101	1988	1516	585	472
400	544	488	544	**400 x 9,1**	1297	2408	2272	1777	631	495
400	544	488	544	**400 x 10,7**	1468	2765	2607	2068	696	538
400	544	488	544	**400 x 12,2**	1640	3122	2941	2360	762	581
500	658	592	658	**500 x 9,1**	1899	3666	3451	2619	1048	832
500	658	592	658	**500 x 10,7**	2134	4196	3945	3049	1148	896
500	658	592	658	**500 x 12,2**	2369	4726	4439	3478	1247	960
600	770	697	770	**600 x 9,1**	2581	5161	4846	3626	1535	1220
600	770	697	770	**600 x 10,7**	2895	5904	5537	4222	1682	1315
600	770	697	770	**600 x 12,2**	3208	6648	6228	4818	1830	1410

H3030 UF POSEIDON

SINGLE CARCASS

Mainline submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	279	225	279	**150 x 9,1**	373	546	525	383	163	142
150	279	225	279	**150 x 10,7**	422	625	600	445	180	155
150	279	225	279	**150 x 12,2**	472	703	675	507	197	168
200	337	282	337	**200 x 9,1**	538	847	810	601	247	209
200	337	282	337	**200 x 10,7**	610	971	927	698	273	229
200	337	282	337	**200 x 12,2**	683	1095	1045	796	300	249
250	402	340	402	**250 x 9,1**	760	1246	1187	872	375	315
250	402	340	402	**250 x 10,7**	860	1427	1358	1014	414	345
250	402	340	402	**250 x 12,2**	960	1608	1529	1155	453	374
300	458	398	458	**300 x 9,1**	1000	1694	1609	1189	504	420
300	458	398	458	**300 x 10,7**	1131	1940	1842	1384	557	458
300	458	398	458	**300 x 12,2**	1262	2187	2074	1578	609	496
400	544	488	544	**400 x 9,1**	1335	2446	2310	1777	669	534
400	544	488	544	**400 x 10,7**	1512	2808	2650	2068	740	582
400	544	488	544	**400 x 12,2**	1690	3171	2991	2360	811	631
500	658	592	658	**500 x 9,1**	1899	3666	3451	2619	1048	832
500	658	592	658	**500 x 10,7**	2134	4196	3945	3049	1148	896
500	658	592	658	**500 x 12,2**	2369	4726	4439	3478	1247	960
600	787	705	787	**600 x 9,1**	2728	5308	4993	3716	1592	1278
600	787	705	787	**600 x 10,7**	3067	6077	5710	4325	1751	1384
600	787	705	787	**600 x 12,2**	3406	6845	6426	4935	1910	1491

Reducer submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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

Nom. 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 x m	kg	kg	kg	kg	kg	kg
200/150	286	228	279	**200/150 x 9,1**	396	570	548	396	174	153
200/150	286	228	279	**200/150 x 10,7**	448	651	626	460	191	166
200/150	286	228	279	**200/150 x 12,2**	501	732	704	524	209	180
250/200	352	290	337	**250/200 x 9,1**	586	895	858	633	262	225
250/200	352	290	337	**250/200 x 10,7**	665	1026	982	736	290	246
250/200	352	290	337	**250/200 x 12,2**	747	1159	1109	839	321	270
300/250	417	348	402	**300/250 x 9,1**	821	1308	1248	911	397	338
300/250	417	348	402	**300/250 x 10,7**	929	1496	1427	1059	437	368
300/250	417	348	402	**300/250 x 12,2**	1040	1688	1609	1207	481	402
400/300	465	398	450	**400/300 x 9,1**	1006	1700	1615	1187	513	428
400/300	465	398	450	**400/300 x 10,7**	1132	1941	1842	1381	560	461
400/300	465	398	450	**400/300 x 12,2**	1260	2185	2072	1575	610	498
500/400	566	491	543	**500/400 x 9,1**	1395	2506	2371	1807	699	563
500/400	566	491	543	**500/400 x 10,7**	1573	2869	2711	2104	766	607
500/400	566	491	543	**500/400 x 12,2**	1755	3236	3055	2400	836	656
600/500	690	608	660	**600/500 x 9,1**	2096	3864	3648	2758	1106	890
600/500	690	608	660	**600/500 x 10,7**	2357	4419	4168	3211	1208	957
600/500	690	608	660	**600/500 x 12,2**	2630	4987	4699	3664	1323	1035

H3232 UF POSEIDON

SINGLE CARCASS

Reducer submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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		°C	-29; +52
Flow velocity	up to	m/s	21
Electrically	as requested	continuous/discontinuous	

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
200/150	286	228	279	**200/150 x 9,1**	396	570	548	396	174	153
200/150	286	228	279	**200/150 x 10,7**	448	651	626	460	191	166
200/150	286	228	279	**200/150 x 12,2**	501	732	704	524	209	180
250/200	352	290	337	**250/200 x 9,1**	586	895	858	633	262	225
250/200	352	290	337	**250/200 x 10,7**	665	1026	982	736	290	246
250/200	352	290	337	**250/200 x 12,2**	747	1159	1109	839	321	270
300/250	417	348	402	**300/250 x 9,1**	836	1322	1263	911	412	353
300/250	417	348	402	**300/250 x 10,7**	946	1513	1444	1059	454	385
300/250	417	348	402	**300/250 x 12,2**	1059	1707	1628	1207	500	421
400/300	465	398	450	**400/300 x 9,1**	1026	1719	1635	1187	532	448
400/300	465	398	450	**400/300 x 10,7**	1154	1963	1865	1381	582	484
400/300	465	398	450	**400/300 x 12,2**	1285	2210	2097	1575	635	522
500/400	574	499	551	**500/400 x 9,1**	1471	2582	2446	1866	715	580
500/400	574	499	551	**500/400 x 10,7**	1663	2959	2801	2172	787	629
500/400	574	499	551	**500/400 x 12,2**	1860	3341	3161	2478	863	683
600/500	690	608	660	**600/500 x 9,1**	2152	3920	3704	2758	1162	946
600/500	690	608	660	**600/500 x 10,7**	2420	4482	4230	3211	1271	1019
600/500	690	608	660	**600/500 x 12,2**	2700	5056	4769	3664	1392	1105

Reducer submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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

Nom. 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 x m	kg	kg	kg	kg	kg	kg
200/150	286	228	279	**200/150 x 9,1**	396	570	548	396	174	153
200/150	286	228	279	**200/150 x 10,7**	448	651	626	460	191	166
200/150	286	228	279	**200/150 x 12,2**	501	732	704	524	209	180
250/200	352	290	337	**250/200 x 9,1**	597	906	868	633	273	235
250/200	352	290	337	**250/200 x 10,7**	677	1038	994	736	302	258
250/200	352	290	337	**250/200 x 12,2**	761	1173	1123	839	334	284
300/250	417	348	402	**300/250 x 9,1**	835	1322	1262	911	411	352
300/250	417	348	402	**300/250 x 10,7**	945	1512	1443	1059	453	384
300/250	417	348	402	**300/250 x 12,2**	1058	1706	1627	1207	499	420
400/300	473	406	458	**400/300 x 9,1**	1088	1782	1697	1235	547	462
400/300	473	406	458	**400/300 x 10,7**	1228	2038	1939	1437	601	503
400/300	473	406	458	**400/300 x 12,2**	1372	2297	2184	1638	658	546
500/400	574	499	551	**500/400 x 9,1**	1509	2620	2484	1866	754	618
500/400	574	499	551	**500/400 x 10,7**	1707	3003	2845	2172	831	673
500/400	574	499	551	**500/400 x 12,2**	1909	3391	3210	2478	913	732
600/500	690	608	660	**600/500 x 9,1**	2152	3920	3704	2758	1162	946
600/500	690	608	660	**600/500 x 10,7**	2420	4482	4230	3211	1271	1019
600/500	690	608	660	**600/500 x 12,2**	2700	5056	4769	3664	1392	1105

H3030T UF POSEIDON

SINGLE CARCASS

Tail submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	287	232	287	**150 x 9,1**	404	577	556	409	168	147
150	287	232	287	**150 x 10,7**	458	661	636	475	186	161
150	287	232	287	**150 x 12,2**	513	745	716	541	203	175
200	344	290	344	**200 x 9,1**	567	876	838	633	243	205
200	344	290	344	**200 x 10,7**	644	1005	961	736	269	225
200	344	290	344	**200 x 12,2**	722	1134	1084	839	296	245
250	409	348	409	**250 x 9,1**	795	1281	1221	911	370	311
250	409	348	409	**250 x 10,7**	901	1468	1399	1059	409	340
250	409	348	409	**250 x 12,2**	1008	1656	1577	1207	449	370
300	459	400	459	**300 x 9,1**	995	1689	1604	1199	490	406
300	459	400	459	**300 x 10,7**	1125	1934	1836	1395	540	441
300	459	400	459	**300 x 12,2**	1255	2180	2067	1591	589	476
400	547	490	547	**400 x 9,1**	1368	2479	2344	1796	683	548
400	547	490	547	**400 x 10,7**	1550	2847	2689	2090	756	598
400	547	490	547	**400 x 12,2**	1733	3214	3033	2385	829	648
500	666	600	666	**500 x 9,1**	1948	3715	3499	2686	1029	814
500	666	600	666	**500 x 10,7**	2194	4256	4004	3127	1129	878
500	666	600	666	**500 x 12,2**	2440	4797	4509	3568	1229	942

Tail submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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		°C	-29; +52
Flow velocity	up to	m/s	21
Electrically	as requested	continuous/discontinuous	

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	287	232	287	**150 x 9,1**	404	577	556	409	168	147
150	287	232	287	**150 x 10,7**	458	661	636	475	186	161
150	287	232	287	**150 x 12,2**	513	745	716	541	203	175
200	344	290	344	**200 x 9,1**	568	877	839	633	244	206
200	344	290	344	**200 x 10,7**	646	1007	963	736	271	227
200	344	290	344	**200 x 12,2**	723	1136	1086	839	297	247
250	409	348	409	**250 x 9,1**	809	1295	1236	911	385	326
250	409	348	409	**250 x 10,7**	918	1485	1416	1059	426	357
250	409	348	409	**250 x 12,2**	1026	1674	1595	1207	467	388
300	459	400	459	**300 x 9,1**	1015	1709	1624	1199	510	425
300	459	400	459	**300 x 10,7**	1147	1957	1858	1395	562	463
300	459	400	459	**300 x 12,2**	1279	2204	2092	1591	614	501
400	555	498	555	**400 x 9,1**	1444	2555	2420	1854	701	565
400	555	498	555	**400 x 10,7**	1641	2938	2779	2159	779	621
400	555	498	555	**400 x 12,2**	1839	3320	3139	2463	857	676
500	666	600	666	**500 x 9,1**	2003	3771	3555	2686	1085	869
500	666	600	666	**500 x 10,7**	2257	4319	4067	3127	1192	940
500	666	600	666	**500 x 12,2**	2510	4866	4579	3568	1299	1011

H3030T UF POSEIDON

SINGLE CARCASS

Tail submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	287	232	287	**150 x 9,1**	404	577	556	409	168	147
150	287	232	287	**150 x 10,7**	458	661	636	475	186	161
150	287	232	287	**150 x 12,2**	513	745	716	541	203	175
200	344	290	344	**200 x 9,1**	579	888	850	633	255	217
200	344	290	344	**200 x 10,7**	658	1019	975	736	283	239
200	344	290	344	**200 x 12,2**	737	1150	1099	839	311	261
250	409	348	409	**250 x 9,1**	809	1295	1236	911	385	326
250	409	348	409	**250 x 10,7**	918	1485	1416	1059	426	357
250	409	348	409	**250 x 12,2**	1026	1674	1595	1207	467	388
300	467	408	467	**300 x 9,1**	1074	1768	1683	1247	521	436
300	467	408	467	**300 x 10,7**	1218	2027	1928	1451	576	478
300	467	408	467	**300 x 12,2**	1361	2286	2174	1655	632	519
400	555	498	555	**400 x 9,1**	1503	2614	2479	1854	760	624
400	555	498	555	**400 x 10,7**	1710	3006	2848	2159	847	689
400	555	498	555	**400 x 12,2**	1916	3398	3217	2463	934	754
500	666	600	666	**500 x 9,1**	2003	3771	3555	2686	1085	869
500	666	600	666	**500 x 10,7**	2257	4319	4067	3127	1192	940
500	666	600	666	**500 x 12,2**	2510	4866	4579	3568	1299	1011

Tanker rail submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	287	232	287	**150 x 9,1**	404	577	556	409	168	147
150	287	232	287	**150 x 10,7**	458	661	636	475	186	161
150	287	232	287	**150 x 12,2**	513	745	716	541	203	175
200	344	290	344	**200 x 9,1**	567	876	838	633	243	205
200	344	290	344	**200 x 10,7**	644	1005	961	736	269	225
200	344	290	344	**200 x 12,2**	722	1134	1084	839	296	245
250	409	348	409	**250 x 9,1**	795	1281	1221	911	370	311
250	409	348	409	**250 x 10,7**	901	1468	1399	1059	409	340
250	409	348	409	**250 x 12,2**	1008	1656	1577	1207	449	370
300	459	400	459	**300 x 9,1**	995	1689	1604	1199	490	406
300	459	400	459	**300 x 10,7**	1125	1934	1836	1395	540	441
300	459	400	459	**300 x 12,2**	1255	2180	2067	1591	589	476
400	547	490	547	**400 x 9,1**	1368	2479	2344	1796	683	548
400	547	490	547	**400 x 10,7**	1550	2847	2689	2090	756	598
400	547	490	547	**400 x 12,2**	1733	3214	3033	2385	829	648
500	666	600	666	**500 x 9,1**	1948	3715	3499	2686	1029	814
500	666	600	666	**500 x 10,7**	2194	4256	4004	3127	1129	878
500	666	600	666	**500 x 12,2**	2440	4797	4509	3568	1229	942

H3838 UF POSEIDON

SINGLE CARCASS

Tanker rail submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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		°C	-29; +52
Flow velocity	up to	m/s	21
Electrically	as requested	continuous/discontinuous	

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	287	232	287	**150 x 9,1**	404	577	556	409	168	147
150	287	232	287	**150 x 10,7**	458	661	636	475	186	161
150	287	232	287	**150 x 12,2**	513	745	716	541	203	175
200	344	290	344	**200 x 9,1**	568	877	839	633	244	206
200	344	290	344	**200 x 10,7**	646	1007	963	736	271	227
200	344	290	344	**200 x 12,2**	723	1136	1086	839	297	247
250	409	348	409	**250 x 9,1**	809	1295	1236	911	385	326
250	409	348	409	**250 x 10,7**	918	1485	1416	1059	426	357
250	409	348	409	**250 x 12,2**	1026	1674	1595	1207	467	388
300	459	400	459	**300 x 9,1**	1015	1709	1624	1199	510	425
300	459	400	459	**300 x 10,7**	1147	1957	1858	1395	562	463
300	459	400	459	**300 x 12,2**	1279	2204	2092	1591	614	501
400	555	498	555	**400 x 9,1**	1444	2555	2420	1854	701	565
400	555	498	555	**400 x 10,7**	1641	2938	2779	2159	779	621
400	555	498	555	**400 x 12,2**	1839	3320	3139	2463	857	676
500	666	600	666	**500 x 9,1**	2003	3771	3555	2686	1085	869
500	666	600	666	**500 x 10,7**	2257	4319	4067	3127	1192	940
500	666	600	666	**500 x 12,2**	2510	4866	4579	3568	1299	1011

Tanker rail submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	287	232	287	**150 x 9,1**	404	577	556	409	168	147
150	287	232	287	**150 x 10,7**	458	661	636	475	186	161
150	287	232	287	**150 x 12,2**	513	745	716	541	203	175
200	344	290	344	**200 x 9,1**	579	888	850	633	255	217
200	344	290	344	**200 x 10,7**	658	1019	975	736	283	239
200	344	290	344	**200 x 12,2**	737	1150	1099	839	311	261
250	409	348	409	**250 x 9,1**	809	1295	1236	911	385	326
250	409	348	409	**250 x 10,7**	918	1485	1416	1059	426	357
250	409	348	409	**250 x 12,2**	1026	1674	1595	1207	467	388
300	467	408	467	**300 x 9,1**	1074	1768	1683	1247	521	436
300	467	408	467	**300 x 10,7**	1218	2027	1928	1451	576	478
300	467	408	467	**300 x 12,2**	1361	2286	2174	1655	632	519
400	555	498	555	**400 x 9,1**	1503	2614	2479	1854	760	624
400	555	498	555	**400 x 10,7**	1710	3006	2848	159	847	689
400	555	498	555	**400 x 12,2**	1916	3398	3217	2463	934	754
500	666	600	666	**500 x 9,1**	2003	3771	3555	2686	1085	869
500	666	600	666	**500 x 10,7**	2257	4319	4067	3127	1192	940
500	666	600	666	**500 x 12,2**	2510	4866	4579	3568	1299	1011

H3737 UF POSEIDON

SINGLE CARCASS

Fully reinforced submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	286	232	286	**150 x 9,1**	400	573	552	409	164	143
150	286	232	286	**150 x 10,7**	454	656	631	475	181	156
150	286	232	286	**150 x 12,2**	508	739	711	541	198	170
200	352	297	352	**200 x 9,1**	611	920	882	666	254	216
200	352	297	352	**200 x 10,7**	696	1057	1013	775	282	238
200	352	297	352	**200 x 12,2**	781	1194	1143	883	311	260
250	416	355	416	**250 x 9,1**	843	1329	1270	950	379	320
250	416	355	416	**250 x 10,7**	958	1525	1456	1105	420	351
250	416	355	416	**250 x 12,2**	1073	1722	1643	1260	462	383
300	465	405	465	**300 x 9,1**	1035	1729	1644	1232	496	412
300	465	405	465	**300 x 10,7**	1171	1980	1882	1434	546	448
300	465	405	465	**300 x 12,2**	1307	2232	2119	1635	597	484
400	564	502	564	**400 x 9,1**	1476	2587	2451	1888	699	563
400	564	502	564	**400 x 10,7**	1674	2970	2812	2198	772	614
400	564	502	564	**400 x 12,2**	1872	3353	3173	2507	846	666
500	694	622	694	**500 x 9,1**	2222	3989	3774	2896	1094	878
500	694	622	694	**500 x 10,7**	2515	4577	4326	3371	1206	955
500	694	622	694	**500 x 12,2**	2809	5165	4878	3846	1319	1032
600	808	735	808	**600 x 9,1**	3014	5593	5279	4029	1564	1249
600	808	735	808	**600 x 10,7**	3406	6416	6049	4692	1724	1357
600	808	735	808	**600 x 12,2**	3798	7238	6819	5355	1883	1464

Fully reinforced submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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		°C	-29; +52
Flow velocity	up to	m/s	21
Electrically	as requested	continuous/discontinuous	

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	286	232	286	**150 x 9,1**	400	573	552	409	164	143
150	286	232	286	**150 x 10,7**	454	656	631	475	181	156
150	286	232	286	**150 x 12,2**	508	739	711	541	198	170
200	352	297	352	**200 x 9,1**	611	920	882	666	254	216
200	352	297	352	**200 x 10,7**	696	1057	1013	775	282	238
200	352	297	352	**200 x 12,2**	781	1194	1143	883	311	260
250	416	355	416	**250 x 9,1**	857	1344	1284	950	394	334
250	416	355	416	**250 x 10,7**	975	1542	1473	1105	437	368
250	416	355	416	**250 x 12,2**	1092	1740	1661	1260	481	402
300	465	405	465	**300 x 9,1**	1055	1748	1664	1232	516	431
300	465	405	465	**300 x 10,7**	1193	2003	1904	1434	569	470
300	465	405	465	**300 x 12,2**	1332	2257	2144	1635	621	509
400	572	510	572	**400 x 9,1**	1552	2663	2527	1948	715	579
400	572	510	572	**400 x 10,7**	1765	3061	2903	2268	794	636
400	572	510	572	**400 x 12,2**	1978	3460	3279	2587	873	692
500	694	622	694	**500 x 9,1**	2278	4045	3830	2896	1150	934
500	694	622	694	**500 x 10,7**	2578	4640	4389	3371	1269	1018
500	694	622	694	**500 x 12,2**	2878	5235	4948	3846	1389	1102
600	808	735	808	**600 x 9,1**	3091	5671	5356	4029	1641	1327
600	808	735	808	**600 x 10,7**	3492	6502	6135	4692	1810	1443
600	808	735	808	**600 x 12,2**	3894	7334	6915	5355	1979	1560

H3737 UF POSEIDON

SINGLE CARCASS

Fully reinforced submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	286	232	286	**150 x 9,1**	400	573	552	409	164	143
150	286	232	286	**150 x 10,7**	454	656	631	475	181	156
150	286	232	286	**150 x 12,2**	508	739	711	541	198	170
200	352	297	352	**200 x 9,1**	621	931	893	666	264	227
200	352	297	352	**200 x 10,7**	708	1069	1025	775	294	250
200	352	297	352	**200 x 12,2**	795	1207	1157	883	324	274
250	416	355	416	**250 x 9,1**	857	1344	1284	950	394	334
250	416	355	416	**250 x 10,7**	975	1542	1473	1105	437	368
250	416	355	416	**250 x 12,2**	1092	1740	1661	1260	481	402
300	473	413	473	**300 x 9,1**	1118	1811	1727	1281	530	446
300	473	413	473	**300 x 10,7**	1268	2078	1979	1491	587	489
300	473	413	473	**300 x 12,2**	1419	2344	2232	1700	644	532
400	572	510	572	**400 x 9,1**	1590	2701	2566	1948	753	618
400	572	510	572	**400 x 10,7**	1809	3105	2947	2268	838	680
400	572	510	572	**400 x 12,2**	2028	3509	3329	2587	922	742
500	694	622	694	**500 x 9,1**	2278	4045	3830	2896	1150	934
500	694	622	694	**500 x 10,7**	2578	4640	4389	3371	1269	1018
500	694	622	694	**500 x 12,2**	2878	5235	4948	3846	1389	1102
600	824	743	824	**600 x 9,1**	3240	5820	5505	4123	1697	1382
600	824	743	824	**600 x 10,7**	3668	6678	6311	4801	1877	1510
600	824	743	824	**600 x 12,2**	4096	7535	7116	5478	2058	1638

One end reinforced half floating hose (first of buoy)

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3	D4									
	mm	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	403	349	242	296	**150 x 9,1**	490	663	642	667	3	24	0,5	3,8
150	403	349	242	296	**150 x 10,7**	560	762	737	777	16	40	2,1	5,5
150	403	349	242	296	**150 x 12,2**	629	860	832	888	28	57	3,3	6,8
200	461	406	307	362	**200 x 9,1**	697	1005	968	959	-46	-8	-4,5	-0,8
200	461	406	307	362	**200 x 10,7**	795	1155	1111	1119	-36	8	-3,1	0,7
200	461	406	307	362	**200 x 12,2**	896	1307	1257	1278	-29	21	-2,2	1,6
250	563	501	365	427	**250 x 9,1**	961	1444	1385	1425	-19	40	-1,3	2,9
250	563	501	365	427	**250 x 10,7**	1094	1658	1589	1661	3	72	0,2	4,5
250	563	501	365	427	**250 x 12,2**	1231	1876	1797	1897	21	100	1,1	5,6
300	648	588	415	475	**300 x 9,1**	1171	1864	1779	1914	51	135	2,7	7,6
300	648	588	415	475	**300 x 10,7**	1328	2136	2038	2232	96	194	4,5	9,5
300	648	588	415	475	**200 x 12,2**	1489	2412	2300	2550	137	250	5,7	10,9
400	749	686	521	584	**400 x 9,1**	1742	2857	2721	2772	-85	51	-3,0	1,9
400	749	686	521	584	**400 x 10,7**	1984	3285	3126	3226	-58	101	-1,8	3,2
400	749	686	521	584	**400 x 12,2**	2230	3717	3536	3681	-36	145	-1,0	4,1
500	931	863	633	700	**500 x 9,1**	2372	4144	3928	4277	133	349	3,2	8,9
500	931	863	633	700	**500 x 10,7**	2684	4752	4500	4980	228	481	4,8	10,7
500	931	863	633	700	**500 x 12,2**	3009	5372	5084	5683	311	599	5,8	11,8
600	1079	1005	745	819	**600 x 9,1**	3146	5732	5417	5884	152	467	2,7	8,6
600	1079	1005	745	819	**600 x 10,7**	3552	6569	6201	6845	275	643	4,2	10,4
600	1079	1005	745	819	**600 x 12,2**	3974	7422	7002	7805	383	803	5,2	11,5

H3006 HF POSEIDON

SINGLE CARCASS

One end reinforced half floating hose (first of buoy)

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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		°C	-29; +52
Flow velocity	up to	m/s	21
Electrically	as requested	continuous/discontinuous	

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3	D4									
	mm	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	403	349	242	296	**150 x 9,1**	490	663	642	667	3	24	0,5	3,8
150	403	349	242	296	**150 x 10,7**	560	762	737	777	16	40	2,1	5,5
150	403	349	242	296	**150 x 12,2**	629	860	832	888	28	57	3,3	6,8
200	461	406	307	362	**200 x 9,1**	697	1005	968	959	-46	-8	-4,5	-0,8
200	461	406	307	362	**200 x 10,7**	795	1155	1111	1119	-36	8	-3,1	0,7
200	461	406	307	362	**200 x 12,2**	896	1307	1257	1278	-29	21	-2,2	1,6
250	563	501	365	427	**250 x 9,1**	976	1459	1400	1425	-34	25	-2,3	1,8
250	563	501	365	427	**250 x 10,7**	1110	1674	1605	1661	-13	56	-0,8	3,5
250	563	501	365	427	**250 x 12,2**	1250	1895	1816	1897	2	81	0,1	4,4
300	648	588	415	475	**300 x 9,1**	1190	1883	1798	1914	32	116	1,7	6,5
300	648	588	415	475	**300 x 10,7**	1351	2159	2061	2232	73	171	3,4	8,3
300	648	588	415	475	**200 x 12,2**	1513	2436	2324	2550	113	226	4,6	9,7
400	749	686	521	584	**400 x 9,1**	1661	2776	2640	2772	-4	132	-0,2	5,0
400	749	686	521	584	**400 x 10,7**	1891	3192	3033	3226	35	194	1,1	6,4
400	749	686	521	584	**400 x 12,2**	2125	3612	3431	3681	69	250	1,9	7,3
500	931	863	633	700	**500 x 9,1**	2427	4199	3983	4277	78	294	1,9	7,4
500	931	863	633	700	**500 x 10,7**	2747	4815	4563	4980	165	418	3,4	9,2
500	931	863	633	700	**500 x 12,2**	3079	5442	5154	5683	241	529	4,4	10,3
600	1079	1005	745	819	**600 x 9,1**	3223	5809	5494	5884	75	390	1,3	7,1
600	1079	1005	745	819	**600 x 10,7**	3638	6655	6287	6845	189	557	2,8	8,9
600	1079	1005	745	819	**600 x 12,2**	4070	7518	7098	7805	287	707	3,8	10,0

One end reinforced half floating hose (first of buoy)

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3	D4									
	mm	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	403	349	242	296	**150 x 9,1**	490	663	642	667	3	24	0,5	3,8
150	403	349	242	296	**150 x 10,7**	560	762	737	777	16	40	2,1	5,5
150	403	349	242	296	**150 x 12,2**	629	860	832	888	28	57	3,3	6,8
200	498	443	307	362	**200 x 9,1**	724	1032	995	1069	37	75	3,6	7,5
200	498	443	307	362	**200 x 10,7**	827	1186	1143	1247	61	105	5,1	9,2
200	498	443	307	362	**200 x 12,2**	933	1344	1294	1425	82	132	6,1	10,2
250	563	501	365	427	**250 x 9,1**	975	1458	1399	1425	-33	26	-2,3	1,8
250	563	501	365	427	**250 x 10,7**	1110	1674	1605	1661	-13	56	-0,8	3,5
250	563	501	365	427	**250 x 12,2**	1249	1894	1815	1897	3	82	0,2	4,5
300	656	596	423	483	**300 x 9,1**	1256	1948	1864	1974	26	110	1,3	5,9
300	656	596	423	483	**300 x 10,7**	1429	2236	2138	2302	65	164	2,9	7,7
300	656	596	423	483	**200 x 12,2**	1604	2527	2415	2629	102	214	4,0	8,9
400	749	686	521	584	**400 x 9,1**	1699	2814	2678	2772	-42	94	-1,5	3,5
400	749	686	521	584	**400 x 10,7**	1935	3236	3077	3226	-9	150	-0,3	4,9
400	749	686	521	584	**400 x 12,2**	2174	3661	3480	3681	20	201	0,5	5,8
500	931	863	633	700	**500 x 9,1**	2427	4199	3983	4277	78	294	1,9	7,4
500	931	863	633	700	**500 x 10,7**	2747	4815	4563	4980	165	418	3,4	9,2
500	931	863	633	700	**500 x 12,2**	3079	5442	5154	5683	241	529	4,4	10,3
600	1096	1013	753	836	**600 x 9,1**	3376	5962	5646	5994	33	348	0,5	6,2
600	1096	1013	753	836	**600 x 10,7**	3818	6834	6467	6972	138	505	2,0	7,8
600	1096	1013	753	836	**600 x 12,2**	4275	7723	7303	790	227	647	2,9	8,9

H3030 FF POSEIDON

SINGLE CARCASS

Mainline full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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	m/s	21
Electrically	as requested	continuous/discontinuous	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	395	341	395	**150 x 9,1**	486	659	638	845	186	207	28	32
150	395	341	395	**150 x 10,7**	555	757	732	987	231	255	30	35
150	395	341	395	**150 x 12,2**	623	854	826	1130	276	304	32	37
200	489	434	489	**200 x 9,1**	695	1003	965	1359	357	394	36	41
200	489	434	489	**200 x 10,7**	797	1156	1112	1590	434	478	38	43
200	489	434	489	**200 x 12,2**	893	1304	1254	1821	517	567	40	45
250	554	492	554	**250 x 9,1**	927	1410	1351	1751	340	399	24	30
250	554	492	554	**250 x 10,7**	1055	1620	1551	2047	427	496	26	32
250	554	492	554	**250 x 12,2**	1184	1829	1750	2344	515	593	28	34
300	637	577	637	**300 x 9,1**	1159	1851	1767	2399	547	632	30	36
300	637	577	637	**300 x 10,7**	1317	2124	2026	2808	683	782	32	39
300	637	577	637	**300 x 12,2**	1474	2397	2284	3217	820	932	34	41
400	724	667	724	**400 x 9,1**	1501	2616	2480	3210	595	731	23	29
400	724	667	724	**400 x 10,7**	1705	3006	2847	3757	751	909	25	32
400	724	667	724	**400 x 12,2**	1908	3395	3213	4303	908	1089	27	34
500	918	851	918	**500 x 9,1**	2253	4026	3809	5191	1165	1381	29	36
500	918	851	918	**500 x 10,7**	2551	4619	4367	6080	1461	1713	32	39
500	918	851	918	**500 x 12,2**	2848	5211	4923	6969	1759	2047	34	42
600	1055	989	1055	**600 x 9,1**	2902	5488	5172	6969	1481	1796	27	35
600	1055	989	1055	**600 x 10,7**	3278	6295	5927	8169	1875	2242	30	38
600	1055	989	1055	**600 x 12,2**	3648	7096	6675	9370	2274	2694	32	40

Mainline full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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	m/s	21
Electrically	as requested	continuous/discontinuous	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	395	341	395	**150 x 9,1**	486	659	638	845	186	207	28	32
150	395	341	395	**150 x 10,7**	555	757	732	987	231	255	30	35
150	395	341	395	**150 x 12,2**	623	854	826	1130	276	304	32	37
200	489	434	489	**200 x 9,1**	695	1003	965	1359	357	394	36	41
200	489	434	489	**200 x 10,7**	797	1156	1112	1590	434	478	38	43
200	489	434	489	**200 x 12,2**	893	1304	1254	1821	517	567	40	45
250	554	492	554	**250 x 9,1**	942	1425	1366	1751	325	384	23	28
250	554	492	554	**250 x 10,7**	1072	1637	1568	2047	410	479	25	31
250	554	492	554	**250 x 12,2**	1202	1847	1768	2344	497	575	27	33
300	637	577	637	**300 x 9,1**	1179	1871	1787	2399	527	612	28	34
300	637	577	637	**300 x 10,7**	1340	2147	2049	2808	660	759	31	37
300	637	577	637	**300 x 12,2**	1498	2421	2308	3217	796	908	33	39
400	732	675	732	**400 x 9,1**	1578	2693	2557	3288	595	731	22	29
400	732	675	732	**400 x 10,7**	1797	3098	2939	3848	750	908	24	31
400	732	675	732	**400 x 12,2**	2016	3503	3321	4407	905	1086	26	33
500	918	851	918	**500 x 9,1**	2308	4081	3864	5191	1110	1326	27	34
500	918	851	918	**500 x 10,7**	2613	4681	4429	6080	1399	1651	30	37
500	918	851	918	**500 x 12,2**	2917	5280	4992	6969	1690	1978	32	40
600	1055	989	1055	**600 x 9,1**	2982	5568	5252	6969	1401	1716	25	33
600	1055	989	1055	**600 x 10,7**	3365	6382	6014	8169	1788	2155	28	36
600	1055	989	1055	**600 x 12,2**	3744	7192	6771	9370	2178	2598	30	38

H3030 FF POSEIDON

SINGLE CARCASS

Mainline full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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	m/s	21
Electrically	as requested	continuous/discontinuous	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	395	341	395	**150 x 9,1**	486	659	638	845	186	207	28	32
150	395	341	395	**150 x 10,7**	555	757	732	987	231	255	30	35
150	395	341	395	**150 x 12,2**	623	854	826	1130	276	304	32	37
200	489	434	489	**200 x 9,1**	706	1014	976	1359	346	383	34	39
200	489	434	489	**200 x 10,7**	807	1166	1122	1590	424	468	36	42
200	489	434	489	**200 x 12,2**	906	1317	1267	1821	504	554	38	44
250	554	492	554	**250 x 9,1**	942	1425	1366	1751	325	384	23	28
250	554	492	554	**250 x 10,7**	1072	1637	1568	2047	410	479	25	31
250	554	492	554	**250 x 12,2**	1202	1847	1768	2344	497	575	27	33
300	645	585	645	**300 x 9,1**	1244	1937	1852	2466	529	614	27	33
300	645	585	645	**300 x 10,7**	1417	2224	2126	2887	662	761	30	36
300	645	585	645	**300 x 12,2**	1588	2512	2399	3307	795	908	32	38
400	768	711	768	**400 x 9,1**	1656	2771	2635	3625	854	990	31	38
400	768	711	768	**400 x 10,7**	1888	3189	3030	4246	1057	1215	33	40
400	768	711	768	**400 x 12,2**	2119	3606	3425	4866	1260	1441	35	42
500	918	851	918	**500 x 9,1**	2308	4081	3864	5191	1110	1326	27	34
500	918	851	918	**500 x 10,7**	2613	4681	4429	6080	1399	1651	30	37
500	918	851	918	**500 x 12,2**	2917	5280	4992	6969	1690	1978	32	40
600	1072	997	1072	**600 x 9,1**	3131	5717	5402	7097	1380	1695	24	31
600	1072	997	1072	**600 x 10,7**	3540	6557	6189	8317	1760	2128	27	34
600	1072	997	1072	**600 x 12,2**	3946	7394	6973	9537	2143	2564	29	37

Reducer full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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	m/s	21
Electrically	as requested	continuous/discontinuous	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
200/150	404	350	404	**200/150 x 9,1**	542	715	694	893	178	199	25	29
200/150	404	350	404	**200/150 x 10,7**	618	820	795	1043	224	248	27	31
200/150	404	350	404	**200/150 x 12,2**	696	926	898	1194	268	296	29	33
250/200	502	447	502	**250/200 x 9,1**	789	1097	1060	1446	349	386	32	36
250/200	502	447	502	**250/200 x 10,7**	903	1262	1218	1691	429	473	34	39
250/200	502	447	502	**250/200 x 12,2**	1019	1430	1380	1937	507	557	35	40
300/250	603	541	603	**300/250 x 9,1**	1079	1563	1504	2107	544	603	35	40
300/250	603	541	603	**300/250 x 10,7**	1231	1795	1726	2466	671	740	37	43
300/250	603	541	603	**300/250 x 12,2**	1384	2029	1951	2825	796	875	39	45
400/300	651	591	651	**400/300 x 9,1**	1295	1988	1903	2513	525	610	26	32
400/300	651	591	651	**400/300 x 10,7**	1470	2278	2179	2942	664	762	29	35
400/300	651	591	651	**400/300 x 12,2**	1647	2571	2458	3370	799	912	31	37
500/400	784	720	784	**500/400 x 9,1**	1775	2890	2754	3728	839	975	29	35
500/400	784	720	784	**500/400 x 10,7**	2016	3317	3159	4365	1048	1207	32	38
500/400	784	720	784	**500/400 x 12,2**	2262	3749	3567	5002	1254	1435	33	40
600/500	940	873	940	**600/500 x 9,1**	2580	4353	4136	5457	1104	1321	25	32
600/500	940	873	940	**600/500 x 10,7**	2923	4990	4738	6391	1401	1653	28	35
600/500	940	873	940	**600/500 x 12,2**	3276	5639	5351	7325	1686	1974	30	37

H3232 FF POSEIDON

SINGLE CARCASS

Reducer full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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	m/s	21
Electrically	as requested	continuous/discontinuous	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
200/150	404	350	404	**200/150 x 9,1**	542	715	694	893	178	199	25	29
200/150	404	350	404	**200/150 x 10,7**	618	820	795	1043	224	248	27	31
200/150	404	350	404	**200/150 x 12,2**	696	926	898	1194	268	296	29	33
250/200	502	447	502	**250/200 x 9,1**	789	1097	1060	1446	349	386	32	36
250/200	502	447	502	**250/200 x 10,7**	903	1262	1218	1691	429	473	34	39
250/200	502	447	502	**250/200 x 12,2**	1019	1430	1380	1937	507	557	35	40
300/250	603	541	603	**300/250 x 9,1**	1093	1577	1518	2107	530	589	34	39
300/250	603	541	603	**300/250 x 10,7**	1246	1810	1741	2466	656	725	36	42
300/250	603	541	603	**300/250 x 12,2**	1402	2047	1969	2825	778	857	38	44
400/300	651	591	651	**400/300 x 9,1**	1314	2007	1922	2513	506	591	25	31
400/300	651	591	651	**400/300 x 10,7**	1493	2301	2202	2942	641	739	28	34
400/300	651	591	651	**400/300 x 12,2**	1671	2595	2482	3370	775	888	30	36
500/400	792	728	792	**500/400 x 9,1**	1853	2968	2832	3813	844	980	28	35
500/400	792	728	792	**500/400 x 10,7**	2112	3413	3254	4464	1051	1210	31	37
500/400	792	728	792	**500/400 x 12,2**	2372	3859	3677	5115	1256	1437	33	39
600/500	940	873	940	**600/500 x 9,1**	2636	4409	4192	5457	1048	1265	24	30
600/500	940	873	940	**600/500 x 10,7**	2986	5053	4801	6391	1338	1590	26	33
600/500	940	873	940	**600/500 x 12,2**	3346	5709	5421	7325	1616	1904	28	35

Reducer full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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	m/s	21
Electrically	as requested	continuous/discontinuous	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
200/150	404	350	404	**200/150 x 9,1**	542	715	694	893	178	199	25	29
200/150	404	350	404	**200/150 x 10,7**	618	820	795	1043	224	248	27	31
200/150	404	350	404	**200/150 x 12,2**	696	926	898	1194	268	296	29	33
250/200	502	447	502	**250/200 x 9,1**	800	1108	1071	1446	338	375	30	35
250/200	502	447	502	**250/200 x 10,7**	916	1275	1231	1691	416	460	33	37
250/200	502	447	502	**250/200 x 12,2**	1033	1444	1394	1937	493	543	34	39
300/250	603	541	603	**300/250 x 9,1**	1093	1577	1518	2107	530	589	34	39
300/250	603	541	603	**300/250 x 10,7**	1246	1810	1741	2466	656	725	36	42
300/250	603	541	603	**300/250 x 12,2**	1402	2047	1969	2825	778	857	38	44
400/300	659	599	659	**400/300 x 9,1**	1381	2073	1989	2582	509	594	25	30
400/300	659	599	659	**400/300 x 10,7**	1571	2379	2280	3022	643	742	27	33
400/300	659	599	659	**400/300 x 12,2**	1763	2686	2574	3462	776	889	29	35
500/400	792	728	792	**500/400 x 9,1**	1892	3007	2871	3813	805	941	27	33
500/400	792	728	792	**500/400 x 10,7**	2156	3457	3298	4464	1007	1166	29	35
500/400	792	728	792	**500/400 x 12,2**	2422	3909	3727	5115	1206	1387	31	37
600/500	940	873	940	**600/500 x 9,1**	2636	4409	4192	5457	1048	1265	24	30
600/500	940	873	940	**600/500 x 10,7**	2986	5053	4801	6391	1338	1590	26	33
600/500	940	873	940	**600/500 x 12,2**	3346	5709	5421	7325	1616	1904	28	35

H3030T FF POSEIDON

SINGLE CARCASS

Tail full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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	m/s	21
Electrically	as requested	continuous/discontinuous	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	394,8	341	395	**150 x 9,1**	486	659	638	845	186	207	28	32
150	394,8	341	395	**150 x 10,7**	555	757	732	987	231	255	30	35
150	394,8	341	395	**150 x 12,2**	623	854	826	1130	276	304	32	37
200	496,6	442	497	**200 x 9,1**	737	1045	1007	1410	366	403	35	40
200	496,6	442	497	**200 x 10,7**	843	1203	1159	1650	447	491	37	42
200	496,6	442	497	**200 x 12,2**	949	1360	1310	1889	529	579	39	44
250	553,6	492	554	**250 x 9,1**	932	1416	1357	1751	335	394	24	29
250	553,6	492	554	**250 x 10,7**	1062	1626	1557	2047	421	490	26	31
250	553,6	492	554	**250 x 12,2**	1191	1836	1758	2344	507	586	28	33
300	639,4	579	639	**300 x 9,1**	1182	1875	1790	2415	541	625	29	35
300	639,4	579	639	**300 x 10,7**	1343	2151	2052	2827	677	775	31	38
300	639,4	579	639	**300 x 12,2**	1503	2426	2314	3239	813	925	33	40
400	763	706	763	**400 x 9,1**	1620	2735	2599	3574	839	975	31	38
400	763	706	763	**400 x 10,7**	1846	3147	2988	4186	1039	1198	33	40
400	763	706	763	**400 x 12,2**	2070	3556	3375	4797	1241	1422	35	42
500	917,8	851	918	**500 x 9,1**	2278	4051	3834	5191	1140	1356	28	35
500	917,8	851	918	**500 x 10,7**	2581	4649	4397	6080	1431	1683	31	38
500	917,8	851	918	**500 x 12,2**	2882	5245	4957	6969	1725	2013	33	41

Tail full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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	m/s	21
Electrically	as requested	continuous/discontinuous	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	395	341	395	**150 x 9,1**	486	659	638	845	186	207	28	32
150	395	341	395	**150 x 10,7**	555	757	732	987	231	255	30	35
150	395	341	395	**150 x 12,2**	623	854	826	1130	276	304	32	37
200	489	434	489	**200 x 9,1**	733	1041	1003	1359	319	356	31	36
200	489	434	489	**200 x 10,7**	839	1198	1154	1590	392	436	33	38
200	489	434	489	**200 x 12,2**	944	1355	1305	1821	466	516	34	40
250	554	492	554	**250 x 9,1**	947	1431	1372	1751	320	379	22	28
250	554	492	554	**250 x 10,7**	1079	1643	1574	2047	404	473	25	30
250	554	492	554	**250 x 12,2**	1209	1854	1776	2344	489	568	26	32
300	639	579	639	**300 x 9,1**	1201	1894	1809	2415	522	606	28	34
300	639	579	639	**300 x 10,7**	1366	2174	2075	2827	654	752	30	36
300	639	579	639	**300 x 12,2**	1528	2451	2339	3239	788	900	32	38
400	771	714	771	**400 x 9,1**	1700	2815	2679	3656	842	978	30	36
400	771	714	771	**400 x 10,7**	1940	3241	3082	4282	1041	1200	32	39
400	771	714	771	**400 x 12,2**	2220	3707	3525	4908	1201	1382	32	39
500	918	851	918	**500 x 9,1**	2334	4107	3890	5191	1084	1300	26	33
500	918	851	918	**500 x 10,7**	2643	4711	4459	6080	1369	1621	29	36
500	918	851	918	**500 x 12,2**	2952	5315	5027	6969	1655	1943	31	39

H3030T FF POSEIDON

SINGLE CARCASS

Tail full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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	m/s	21
Electrically	as requested	continuous/discontinuous	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	395	341	395	**150 x 9,1**	486	659	638	845	186	207	28	32
150	395	341	395	**150 x 10,7**	555	757	732	987	231	255	30	35
150	395	341	395	**150 x 12,2**	623	854	826	1130	276	304	32	37
200	489	434	489	**200 x 9,1**	744	1052	1014	1359	308	345	29	34
200	489	434	489	**200 x 10,7**	851	1210	1166	1590	380	424	31	36
200	489	434	489	**200 x 12,2**	958	1369	1319	1821	452	502	33	38
250	554	492	554	**250 x 9,1**	947	1431	1372	1751	320	379	22	28
250	554	492	554	**250 x 10,7**	1079	1643	1574	2047	404	473	25	30
250	554	492	554	**250 x 12,2**	1209	1854	1776	2344	489	568	26	32
300	647	587	647	**300 x 9,1**	1267	1960	1875	2483	523	608	27	32
300	647	587	647	**300 x 10,7**	1444	2252	2153	2907	655	753	29	35
300	647	587	647	**300 x 12,2**	1619	2542	2430	3330	788	900	31	37
400	771	714	771	**400 x 9,1**	1759	2874	2738	3656	783	919	27	34
400	771	714	771	**400 x 10,7**	2009	3310	3151	4282	972	1131	29	36
400	771	714	771	**400 x 12,2**	2257	3744	3562	4908	1164	1345	31	38
500	918	851	918	**500 x 9,1**	2334	4107	3890	5191	1084	1300	26	33
500	918	851	918	**500 x 10,7**	2643	4711	4459	6080	1369	1621	29	36
500	918	851	918	**500 x 12,2**	2952	5315	5027	6969	1655	1943	31	39

Tanker rail dumbel floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	527	344	417	**150 x 9,1**	630	803	782	1260	457	478	57	61
150	527	344	417	**150 x 10,7**	729	931	907	1469	537	562	58	62
150	527	344	417	**150 x 12,2**	829	1060	1031	1636	576	604	54	59
200	657	401	510	**200 x 9,1**	862	1170	1133	1825	655	693	56	61
200	657	401	510	**200 x 10,7**	1004	1363	1319	2131	768	812	56	62
200	657	401	510	**200 x 12,2**	1145	1555	1505	2368	813	863	52	57
250	715	459	642	**250 x 9,1**	1120	1604	1545	2389	785	844	49	55
250	715	459	642	**250 x 10,7**	1296	1860	1791	2768	908	977	49	55
250	715	459	642	**250 x 12,2**	1470	2116	2037	3107	992	1071	47	53
300	913	511	803	**300 x 9,1**	1438	2131	2046	3343	1213	1297	57	63
300	913	511	803	**300 x 10,7**	1674	2482	2383	3894	1412	1511	57	63
300	913	511	803	**300 x 12,2**	1910	2833	2721	4369	1536	1648	54	61
400	1004	601	931	**400 x 9,1**	1874	2989	2853	4580	1590	1726	53	61
400	1004	601	931	**400 x 10,7**	2171	3472	3314	5024	1551	1710	45	50
400	1004	601	931	**400 x 12,2**	2468	3955	3774	5671	1716	1897	43	50
500	1223	711	1150	**500 x 9,1**	2504	4276	4060	6371	2095	2311	49	57
500	1223	711	1150	**500 x 10,7**	2900	4968	4716	6992	2024	2276	41	48
500	1223	711	1150	**500 x 12,2**	3295	5658	5370	7941	2283	2571	40	48

H3838 DF POSEIDON

SINGLE CARCASS

Tanker rail dumbel floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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		°C	-29; +52
Flow velocity	up to	m/s	21
Electrically	as requested	continuous/discontinuous	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	527	344	417	**150 x 9,1**	630	803	782	1260	457	478	57	61
150	527	344	417	**150 x 10,7**	729	931	907	1469	537	562	58	62
150	527	344	417	**150 x 12,2**	829	1060	1031	1636	576	604	54	59
200	657	401	510	**200 x 9,1**	862	1170	1133	1825	655	693	56	61
200	657	401	510	**200 x 10,7**	1004	1363	1319	2131	768	812	56	62
200	657	401	510	**200 x 12,2**	1145	1555	1505	2368	813	863	52	57
250	715	459	642	**250 x 9,1**	1135	1619	1560	2389	770	829	48	53
250	715	459	642	**250 x 10,7**	1312	1876	1807	2768	892	961	48	53
250	715	459	642	**250 x 12,2**	1489	2135	2056	3107	973	1052	46	51
300	913	511	803	**300 x 9,1**	1457	2150	2065	3343	1194	1278	56	62
300	913	511	803	**300 x 10,7**	1696	2504	2405	3894	1390	1489	56	62
300	913	511	803	**300 x 12,2**	1934	2857	2745	4369	1512	1624	53	59
400	1012	609	939	**400 x 9,1**	1891	3006	2870	4671	1665	1801	55	63
400	1012	609	939	**400 x 10,7**	2195	3496	3337	5127	1631	1789	47	52
400	1012	609	939	**400 x 12,2**	2500	3987	3806	5788	1801	1982	45	52
500	1223	711	1150	**500 x 9,1**	2560	4332	4116	6371	2039	2255	47	55
500	1223	711	1150	**500 x 10,7**	2962	5030	4778	6992	1962	2214	39	46
500	1223	711	1150	**500 x 12,2**	3365	5728	5440	7941	2213	2501	39	46

Tanker rail dumbel floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	527	344	417	**150 x 9,1**	630	803	782	1260	457	478	57	61
150	527	344	417	**150 x 10,7**	729	931	907	1469	537	562	58	62
150	527	344	417	**150 x 12,2**	829	1060	1031	1636	576	604	54	59
200	657	401	510	**200 x 9,1**	873	1181	1144	1825	644	682	55	60
200	657	401	510	**200 x 10,7**	1016	1375	1331	2131	756	800	55	60
200	657	401	510	**200 x 12,2**	1159	1569	1519	2368	799	849	51	56
250	715	459	642	**250 x 9,1**	1135	1619	1560	2389	770	829	48	53
250	715	459	642	**250 x 10,7**	1312	1876	1807	2768	892	961	48	53
250	715	459	642	**250 x 12,2**	1489	2135	2056	3107	973	1052	46	51
300	921	519	811	**300 x 9,1**	1520	2213	2128	3421	1208	1293	55	61
300	921	519	811	**300 x 10,7**	1771	2579	2481	3984	1405	1503	54	61
300	921	519	811	**300 x 12,2**	2023	2946	2833	4471	1525	1638	52	58
400	1049	609	939	**400 x 9,1**	1973	3088	2952	4781	1694	1830	55	62
400	1049	609	939	**400 x 10,7**	2296	3597	3438	5237	1640	1798	46	50
400	1049	609	939	**400 x 12,2**	2619	4106	3924	5898	1792	1974	44	50
500	1223	711	1150	**500 x 9,1**	2560	4332	4116	6371	2039	2255	47	55
500	1223	711	1150	**500 x 10,7**	2962	5030	4778	6992	1962	2214	39	46
500	1223	711	1150	**500 x 12,2**	3365	5728	5440	7941	2213	2501	39	46

H3737 FF POSEIDON

SINGLE CARCASS

Fully reinforced full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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	m/s	21
Electrically	as requested	continuous/discontinuous	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	408	354	408	**150 x 9,1**	546	719	698	911	192	213	27	30
150	408	354	408	**150 x 10,7**	626	828	803	1065	237	261	29	33
150	408	354	408	**150 x 12,2**	705	936	907	1218	282	311	30	34
200	510	455	510	**200 x 9,1**	818	1126	1089	1495	369	407	33	37
200	510	455	510	**200 x 10,7**	938	1297	1253	1749	452	495	35	40
200	510	455	510	**200 x 12,2**	1058	1469	1419	2002	534	584	36	41
250	574	513	574	**250 x 9,1**	1076	1560	1501	1904	344	403	22	27
250	574	513	574	**250 x 10,7**	1232	1796	1728	2227	430	499	24	29
250	574	513	574	**250 x 12,2**	1386	2031	1953	2549	518	596	25	31
300	658	598	658	**300 x 9,1**	1328	2021	1936	2578	557	642	28	33
300	658	598	658	**300 x 10,7**	1515	2323	2224	3017	695	793	30	36
300	658	598	658	**300 x 12,2**	1699	2622	2510	3457	835	947	32	38
400	794	731	794	**400 x 9,1**	1859	2974	2838	3843	869	1005	29	35
400	794	731	794	**400 x 10,7**	2123	3424	3265	4500	1076	1235	31	38
400	794	731	794	**400 x 12,2**	2384	3871	3690	5156	1285	1467	33	40
500	959	887	959	**500 x 9,1**	2712	4485	4269	5651	1166	1382	26	32
500	959	887	959	**500 x 10,7**	3089	5157	4905	6617	1460	1712	28	35
500	959	887	959	**500 x 12,2**	3464	5827	5539	7583	1755	2044	30	37
600	1108	1036	1108	**600 x 9,1**	3626	6212	5897	7662	1449	1765	23	30
600	1108	1036	1108	**600 x 10,7**	4124	7141	6773	8978	1837	2205	26	33
600	1108	1036	1108	**600 x 12,2**	4619	8067	7646	10294	2227	2648	28	35

Fully reinforced full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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	m/s	21
Electrically	as requested	continuous/discontinuous	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	408	354	408	**150 x 9,1**	546	719	698	911	192	213	27	30
150	408	354	408	**150 x 10,7**	626	828	803	1065	237	261	29	33
150	408	354	408	**150 x 12,2**	705	936	907	1218	282	311	30	34
200	510	455	510	**200 x 9,1**	818	1126	1089	1495	369	407	33	37
200	510	455	510	**200 x 10,7**	938	1297	1253	1749	452	495	35	40
200	510	455	510	**200 x 12,2**	1058	1469	1419	2002	534	584	36	41
250	574	513	574	**250 x 9,1**	1091	1575	1516	1904	329	388	21	26
250	574	513	574	**250 x 10,7**	1248	1812	1744	2227	414	483	23	28
250	574	513	574	**250 x 12,2**	1404	2049	1971	2549	500	578	24	29
300	658	598	658	**300 x 9,1**	1348	2041	1956	2578	537	622	26	32
300	658	598	658	**300 x 10,7**	1537	2345	2246	3017	673	771	29	34
300	658	598	658	**300 x 12,2**	1724	2647	2535	3457	810	922	31	36
400	802	739	802	**400 x 9,1**	1940	3055	2919	3929	874	1010	29	35
400	802	739	802	**400 x 10,7**	2218	3519	3361	4600	1080	1239	31	37
400	802	739	802	**400 x 12,2**	2497	3983	3802	5271	1287	1469	32	39
500	959	887	959	**500 x 9,1**	2768	4541	4325	5651	1110	1326	24	31
500	959	887	959	**500 x 10,7**	3152	5220	4968	6617	1397	1649	27	33
500	959	887	959	**500 x 12,2**	3534	5897	5609	7583	1685	1974	29	35
600	1108	1036	1108	**600 x 9,1**	3703	6289	5974	7662	1372	1688	22	28
600	1108	1036	1108	**600 x 10,7**	4211	7228	6860	8978	1750	2118	24	31
600	1108	1036	1108	**600 x 12,2**	4715	8163	7742	10294	2131	2552	26	33

H3737 FF POSEIDON

SINGLE CARCASS

Fully reinforced full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement	Steel wire 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	m/s	21
Electrically	as requested	continuous/discontinuous	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	408	354	408	**150 x 9,1**	546	719	698	911	192	213	27	30
150	408	354	408	**150 x 10,7**	626	828	803	1065	237	261	29	33
150	408	354	408	**150 x 12,2**	705	936	907	1218	282	311	30	34
200	510	455	510	**200 x 9,1**	828	1136	1099	1495	359	397	32	36
200	510	455	510	**200 x 10,7**	951	1310	1266	1749	439	482	33	38
200	510	455	510	**200 x 12,2**	1072	1483	1433	2002	520	570	35	40
250	574	513	574	**250 x 9,1**	1091	1575	1516	1904	329	388	21	26
250	574	513	574	**250 x 10,7**	1248	1812	1744	2227	414	483	23	28
250	574	513	574	**250 x 12,2**	1404	2049	1971	2549	500	578	24	29
300	667	606	666	**300 x 9,1**	1415	2107	2023	2648	541	625	26	31
300	667	606	666	**300 x 10,7**	1616	2424	2325	3099	676	774	28	33
300	667	606	666	**300 x 12,2**	1817	2740	2627	3550	811	923	30	35
400	802	739	802	**400 x 9,1**	1978	3093	2957	3929	836	972	27	33
400	802	739	802	**400 x 10,7**	2262	3563	3405	4600	1036	1195	29	35
400	802	739	802	**400 x 12,2**	2546	4032	3851	5271	1238	1420	31	37
500	959	887	959	**500 x 9,1**	2768	4541	4325	5651	1110	1326	24	31
500	959	887	959	**500 x 10,7**	3152	5220	4968	6617	1397	1649	27	33
500	959	887	959	**500 x 12,2**	3534	5897	5609	7583	1685	1974	29	35
600	1125	1044	1125	**600 x 9,1**	3858	6444	6128	7796	1352	1668	21	27
600	1125	1044	1125	**600 x 10,7**	4392	7409	7041	9133	1724	2092	23	30
600	1125	1044	1125	**600 x 12,2**	4922	8370	7949	10470	2100	2520	25	32

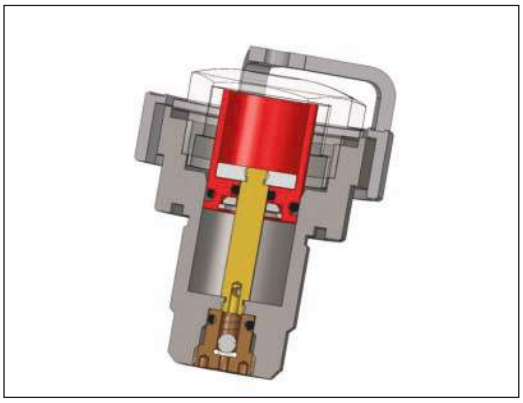
Primary and secondary carcass
The Manuli Double Carcass hoses consist of the standard submarine hose design with an additional second Carcass designed to contain any product which may escape from the standard Carcass as a result of a slow leak or sudden failure of the standard Carcass.

The double carcass hoses is designed with two independent carcasses
Manuli's Double Carcass hoses fulfils all the requirements of GMPHOM 2009.
The two carcasses are independent . Double vulcanization for Double Carcass Hoses. Once the first carcass is built the hose is subjected to the 1St Vulcanization. Only if the result of the inspection of the 1sT carcass is satisfactory the second carcass can be manufactured.

Reinforcement
Using steel wire cords Manuli designs the primary carcass of double carcass hoses with low elongations and zero twist still proving a hose with high flexibility. The reinforcement of the secondary carcass consists of high tensile and high elongation nylon capable to withstand the energy coming from an eventual burst of primary carcass. The fatigue characteristics of the combination of the steel wire cord for the primary carcass with the high tensile / high elongation nylon for the secondary carcass and the stability of construction in working conditions result in a longer working life for the hose.

Volume between the two carcasses
Manuli double carcass hose is designed so that each carcass can contain the Rated Working Pressure; the two carcasses are arranged such that there is a volume between the primary and secondary carcasses. Any product that escapes from the primary carcass can accumulate between the carcasses and travel freely along the entire hose length.

New mechanical Leak Detectors for Double Carcass Hoses
The new Manuli mechanical Leak Detectors called FAD (Failure Alert Device) have been proven be simple, reliable and with no need of maintenance. Once activated can be used again.



SUBMARINE

DOUBLE CARCASS

H3006 UF DASH POSEIDON pag. 56
Double carcass one end reinforced submarine hose

H3030 UF DASH POSEIDON pag. 59
Double carcass mainline submarine hose

H3232 UF DASH POSEIDON pag. 62
Double carcass reducer submarine hose

H3030T UF DASH POSEIDON pag. 65
Double carcass tail submarine hose

H3838 UF DASH POSEIDON pag. 68
Double carcass tanker rail submarine hose

H3737 UF DASH POSEIDON pag. 71
Double carcass fully reinforced submarine hose

ON REQUEST

the submarine hoses will be build with locations collars for the application of deep water floats.

On request hoses for special applications can be manufactured

H3006 HF DASH POSEIDON pag. 74
Double carcass one end reinforced half floating hose (first of buoy)

H3030 FF DASH POSEIDON pag. 77
Double carcass mainline full floating hose

H3232 FF DASH POSEIDON pag. 80
Double carcass reducer full floating hose

H3030T FF DASH POSEIDON pag. 83
Double carcass tail full floating hose

H3838 DF DASH POSEIDON pag. 86
Double carcass tanker rail dumbel floating hose

H3737 FF DASH POSEIDON pag. 89
Double carcass fully reinforced full floating hose

On request hoses for special applications can be manufactured

H3006 UF DASH POSEIDON

DOUBLE CARCASS

Double carcass one end reinforced submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	373	299	365	**150 x 9,1**	623	797	776	680	117	95
150	373	299	365	**150 x 10,7**	710	912	887	790	122	97
150	373	299	365	**150 x 12,2**	797	1028	1000	900	128	100
200	448	370	433	**200 x 9,1**	880	1189	1151	1035	154	117
200	448	370	433	**200 x 10,7**	1002	1363	1319	1203	161	117
200	448	370	433	**200 x 12,2**	1129	1541	1491	1371	170	120
250	513	428	498	**250 x 9,1**	1180	1666	1607	1383	283	224
250	513	428	498	**250 x 10,7**	1343	1910	1841	1607	302	233
250	513	428	498	**250 x 12,2**	1509	2158	2079	1832	325	246
300	561	478	546	**300 x 9,1**	1405	2099	2014	1719	380	296
300	561	478	546	**300 x 10,7**	1593	2402	2303	1999	403	304
300	561	478	546	**300 x 12,2**	1783	2708	2595	2280	428	315
400	681	582	658	**400 x 9,1**	2008	3119	2984	2540	579	444
400	681	582	658	**400 x 10,7**	2277	3574	3415	2955	619	461
400	681	582	658	**400 x 12,2**	2551	4032	3851	3369	663	482
500	806	698	775	**500 x 9,1**	2860	4628	4412	3648	980	764
500	806	698	775	**500 x 10,7**	3233	5295	5043	4245	1049	798
500	806	698	775	**500 x 12,2**	3617	5974	5687	4843	1131	844
600	934	816	896	**600 x 9,1**	3883	6463	6148	4983	1480	1165
600	934	816	896	**600 x 10,7**	4379	7389	7021	5801	1588	1221
600	934	816	896	**600 x 12,2**	4891	8331	7911	6618	1713	1293

Double carcass one end reinforced submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	383	309	375	**150 x 9,1**	693	867	846	724	143	122
150	383	309	375	**150 x 10,7**	792	994	969	841	153	129
150	383	309	375	**150 x 12,2**	891	1122	1094	958	164	136
200	448	370	433	**200 x 9,1**	880	1189	1151	1035	154	117
200	448	370	433	**200 x 10,7**	1002	1363	1319	1203	161	117
200	448	370	433	**200 x 12,2**	1129	1541	1491	1371	170	120
250	513	428	498	**250 x 9,1**	1194	1681	1621	1383	298	239
250	513	428	498	**250 x 10,7**	1359	1926	1857	1607	319	250
250	513	428	498	**250 x 12,2**	1528	2176	2097	1832	344	265
300	580	488	565	**300 x 9,1**	1515	2209	2124	1792	416	332
300	580	488	565	**300 x 10,7**	1720	2529	2430	2084	445	346
300	580	488	565	**300 x 12,2**	1927	2852	2739	2376	476	363
400	689	590	666	**400 x 9,1**	2088	3199	3064	2609	590	454
400	689	590	666	**400 x 10,7**	2373	3669	3511	3036	634	476
400	689	590	666	**400 x 12,2**	2662	4144	3963	3462	681	501
500	815	707	785	**500 x 9,1**	3042	4810	4594	3748	1061	846
500	815	707	785	**500 x 10,7**	3443	5505	5254	4362	1143	892
500	815	707	785	**500 x 12,2**	3857	6213	5926	4976	1237	950
600	934	816	896	**600 x 9,1**	3960	6540	6226	4983	1557	1242
600	934	816	896	**600 x 10,7**	4465	7475	7108	5801	1674	1307
600	934	816	896	**600 x 12,2**	4987	8427	8007	6618	1809	1389

H3006 UF DASH POSEIDON

DOUBLE CARCASS

Double carcass one end reinforced submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	383	309	375	**150 x 9,1**	693	867	846	724	143	122
150	383	309	375	**150 x 10,7**	792	994	969	841	153	129
150	383	309	375	**150 x 12,2**	891	1122	1094	958	164	136
200	448	370	433	**200 x 9,1**	890	1200	1162	1035	165	127
200	448	370	433	**200 x 10,7**	1015	1376	1332	1203	173	129
200	448	370	433	**200 x 12,2**	1142	1555	1505	1371	184	134
250	513	428	498	**250 x 9,1**	1194	1680	1621	1383	297	238
250	513	428	498	**250 x 10,7**	1358	1925	1856	1607	318	249
250	513	428	498	**250 x 12,2**	1527	2175	2096	1832	343	264
300	588	496	573	**300 x 9,1**	1581	2275	2191	1851	424	340
300	588	496	573	**300 x 10,7**	1799	2609	2510	2152	456	357
300	588	496	573	**300 x 12,2**	2020	2945	2832	2454	491	378
400	689	590	666	**400 x 9,1**	2127	3238	3102	2609	628	493
400	689	590	666	**400 x 10,7**	2417	3713	3555	3036	678	519
400	689	590	666	**400 x 12,2**	2712	4193	4012	3462	731	550
500	815	707	785	**500 x 9,1**	3042	4810	4594	3748	1061	846
500	815	707	785	**500 x 10,7**	3443	5505	5254	4362	1143	892
500	815	707	785	**500 x 12,2**	3857	6213	5926	4976	1237	950
600	970	834	932	**600 x 9,1**	4268	6848	6533	5214	1634	1319
600	970	834	932	**600 x 10,7**	4825	7835	7468	6067	1768	1401
600	970	834	932	**600 x 12,2**	5398	8838	8419	6920	1918	1499

Double carcass mainline submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	366	296	366	**150 x 9,1**	608	781	760	663	118	97
150	366	296	366	**150 x 10,7**	691	893	869	770	123	98
150	366	296	366	**150 x 12,2**	774	1005	977	878	128	100
200	433	363	433	**200 x 9,1**	828	1137	1100	993	144	107
200	433	363	433	**200 x 10,7**	942	1303	1259	1154	149	105
200	433	363	433	**200 x 12,2**	1056	1469	1418	1316	153	103
250	498	421	498	**250 x 9,1**	1116	1602	1543	1334	267	208
250	498	421	498	**250 x 10,7**	1268	1835	1766	1551	283	214
250	498	421	498	**250 x 12,2**	1419	2068	1989	1768	299	220
300	539	471	539	**300 x 9,1**	1348	2042	1957	1662	380	295
300	539	471	539	**300 x 10,7**	1525	2335	2236	1934	401	302
300	539	471	539	**300 x 12,2**	1703	2628	2515	2205	422	310
400	642	570	642	**400 x 9,1**	1868	2979	2844	2430	549	414
400	642	570	642	**400 x 10,7**	2115	3411	3253	2828	583	425
400	642	570	642	**400 x 12,2**	2362	3843	3662	3226	617	436
500	774	682	774	**500 x 9,1**	2634	4402	4186	3487	914	699
500	774	682	774	**500 x 10,7**	2970	5032	4781	4058	974	722
500	774	682	774	**500 x 12,2**	3306	5663	5375	4629	1033	746
600	895	797	895	**600 x 9,1**	3644	6224	5909	4751	1474	1159
600	895	797	895	**600 x 10,7**	4101	7111	6744	5529	1582	1215
600	895	797	895	**600 x 12,2**	4558	7998	7579	6308	1690	1270

H3030 UF DASH POSEIDON

DOUBLE CARCASS

Double carcass mainline submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	375	305	375	**150 x 9,1**	676	850	829	706	144	122
150	375	305	375	**150 x 10,7**	772	974	949	821	153	129
150	375	305	375	**150 x 12,2**	867	1098	1070	935	163	135
200	433	363	433	**200 x 9,1**	828	1137	1100	993	144	107
200	433	363	433	**200 x 10,7**	942	1303	1259	1154	149	105
200	433	363	433	**200 x 12,2**	1056	1469	1418	1316	153	103
250	498	421	498	**250 x 9,1**	1131	1617	1557	1334	282	223
250	498	421	498	**250 x 10,7**	1284	1851	1782	1551	300	231
250	498	421	498	**250 x 12,2**	1438	2086	2007	1768	318	239
300	562	477	562	**300 x 9,1**	1456	2150	2065	1718	432	348
300	562	477	562	**300 x 10,7**	1650	2460	2361	1997	463	364
300	562	477	562	**300 x 12,2**	1845	2770	2657	2277	493	380
400	650	578	650	**400 x 9,1**	1946	3057	2921	2498	559	424
400	650	578	650	**400 x 10,7**	2208	3504	3346	2907	597	439
400	650	578	650	**400 x 12,2**	2470	3951	3771	3317	635	454
500	783	692	783	**500 x 9,1**	2814	4581	4366	3585	996	780
500	783	692	783	**500 x 10,7**	3178	5240	4989	4172	1068	816
500	783	692	783	**500 x 12,2**	3542	5899	5611	4760	1139	852
600	895	797	895	**600 x 9,1**	3721	6301	5987	4751	1551	1236
600	895	797	895	**600 x 10,7**	4188	7198	6831	5529	1668	1301
600	895	797	895	**600 x 12,2**	4654	8094	7675	6308	1786	1366

Double carcass mainline submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	375	305	375	**150 x 9,1**	676	850	829	706	144	122
150	375	305	375	**150 x 10,7**	772	974	949	821	153	129
150	375	305	375	**150 x 12,2**	867	1098	1070	935	163	135
200	433	363	433	**200 x 9,1**	839	1148	1110	993	155	117
200	433	363	433	**200 x 10,7**	954	1315	1271	1154	161	117
200	433	363	433	**200 x 12,2**	1070	1482	1432	1316	167	116
250	498	421	498	**250 x 9,1**	1131	1617	1557	1334	282	223
250	498	421	498	**250 x 10,7**	1284	1851	1782	1551	300	231
250	498	421	498	**250 x 12,2**	1438	2086	2007	1768	318	239
300	558	488	558	**300 x 9,1**	1518	2212	2127	1788	423	339
300	558	488	558	**300 x 10,7**	1724	2534	2435	2081	453	354
300	558	488	558	**300 x 12,2**	1931	2856	2743	2373	483	370
400	650	578	650	**400 x 9,1**	1984	3095	2960	2498	597	462
400	650	578	650	**400 x 10,7**	2252	3548	3390	2907	641	483
400	650	578	650	**400 x 12,2**	2519	4001	3820	3317	684	503
500	783	692	783	**500 x 9,1**	2814	4581	4366	3585	996	780
500	783	692	783	**500 x 10,7**	3178	5240	4989	4172	1068	816
500	783	692	783	**500 x 12,2**	3542	5899	5611	4760	1139	852
600	930	814	930	**600 x 9,1**	4024	6604	6290	4975	1629	1314
600	930	814	930	**600 x 10,7**	4542	7552	7185	5789	1762	1395
600	930	814	930	**600 x 12,2**	5059	8499	8080	6603	1896	1477

H3232 UF DASH POSEIDON

DOUBLE CARCASS

Double carcass reducer submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
200/150	373	299	365	**200/150 x 9,1**	634	807	786	680	127	106
200/150	373	299	365	**200/150 x 10,7**	720	923	898	790	133	108
200/150	373	299	365	**200/150 x 12,2**	807	1039	1010	900	139	111
250/200	448	370	433	**250/200 x 9,1**	892	1202	1164	1035	167	129
250/200	448	370	433	**250/200 x 10,7**	1015	1376	1332	1203	173	129
250/200	448	370	433	**250/200 x 12,2**	1141	1554	1503	1371	183	133
300/250	513	428	498	**300/250 x 9,1**	1202	1688	1629	1383	306	246
300/250	513	428	498	**300/250 x 10,7**	1365	1932	1863	1607	325	255
300/250	513	428	498	**300/250 x 12,2**	1532	2180	2101	1832	348	268
400/300	561	478	546	**400/300 x 9,1**	1440	2134	2049	1719	415	330
400/300	561	478	546	**400/300 x 10,7**	1628	2437	2338	1999	438	339
400/300	561	478	546	**400/300 x 12,2**	1818	2743	2630	2280	463	350
500/400	681	582	658	**500/400 x 9,1**	2054	3165	3029	2540	625	489
500/400	681	582	658	**500/400 x 10,7**	2323	3619	3461	2955	665	506
500/400	681	582	658	**500/400 x 12,2**	2596	4078	3897	3369	708	528
600/500	806	698	775	**600/500 x 9,1**	2913	4681	4465	3648	1033	817
600/500	806	698	775	**600/500 x 10,7**	3286	5348	5096	4245	1102	851
600/500	806	698	775	**600/500 x 12,2**	3671	6027	5740	4843	1184	897

Double carcass reducer submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
200/150	383	309	375	**200/150 x 9,1**	704	878	856	724	154	133
200/150	383	309	375	**200/150 x 10,7**	802	1005	980	841	164	139
200/150	383	309	375	**200/150 x 12,2**	902	1133	1105	958	175	147
250/200	448	370	433	**250/200 x 9,1**	892	1202	1164	1035	167	129
250/200	448	370	433	**250/200 x 10,7**	1015	1376	1332	1203	173	129
250/200	448	370	433	**250/200 x 12,2**	1141	1554	1503	1371	183	133
300/250	513	428	498	**300/250 x 9,1**	1217	1703	1644	1383	320	261
300/250	513	428	498	**300/250 x 10,7**	1381	1949	1880	1607	341	272
300/250	513	428	498	**300/250 x 12,2**	1550	2198	2119	1832	366	287
400/300	580	488	565	**400/300 x 9,1**	1550	2244	2159	1792	451	367
400/300	580	488	565	**400/300 x 10,7**	1754	2564	2465	2084	480	381
400/300	580	488	565	**400/300 x 12,2**	1962	2887	2774	2376	511	398
500/400	689	590	666	**500/400 x 9,1**	2134	3245	3109	2609	635	500
500/400	689	590	666	**500/400 x 10,7**	2419	3715	3557	3036	679	521
500/400	689	590	666	**500/400 x 12,2**	2708	4189	4009	3462	727	546
600/500	815	707	785	**600/500 x 9,1**	3095	4863	4647	3748	1114	899
600/500	815	707	785	**600/500 x 10,7**	3496	5558	5307	4362	1196	945
600/500	815	707	785	**600/500 x 12,2**	3910	6267	5979	4976	1290	1003

H3232 UF DASH POSEIDON

DOUBLE CARCASS

Double carcass reducer submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
200/150	383	309	375	**200/150 x 9,1**	704	878	856	724	154	133
200/150	383	309	375	**200/150 x 10,7**	802	1005	980	841	164	139
200/150	383	309	375	**200/150 x 12,2**	902	1133	1105	958	175	147
250/200	448	370	433	**250/200 x 9,1**	903	1212	1175	1035	178	140
250/200	448	370	433	**250/200 x 10,7**	1027	1388	1344	1203	186	142
250/200	448	370	433	**250/200 x 12,2**	1155	1568	1517	1371	197	146
300/250	513	428	498	**300/250 x 9,1**	1216	1702	1643	1383	320	260
300/250	513	428	498	**300/250 x 10,7**	1380	1948	1879	1607	340	271
300/250	513	428	498	**300/250 x 12,2**	1549	2197	2118	1832	365	286
400/300	588	496	573	**400/300 x 9,1**	1616	2310	2226	1851	459	375
400/300	588	496	573	**400/300 x 10,7**	1834	2644	2545	2152	491	392
400/300	588	496	573	**400/300 x 12,2**	2055	2980	2867	2454	526	413
500/400	689	590	666	**500/400 x 9,1**	2172	3283	3148	2609	674	538
500/400	689	590	666	**500/400 x 10,7**	2463	3759	3601	3036	723	565
500/400	689	590	666	**500/400 x 12,2**	2757	4239	4058	3462	777	596
600/500	815	707	785	**600/500 x 9,1**	3095	4863	4647	3748	1114	899
600/500	815	707	785	**600/500 x 10,7**	3496	5558	5307	4362	1196	945
600/500	815	707	785	**600/500 x 12,2**	3910	6267	5979	4976	1290	1003

Double carcass tail submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	373	303	373	**150 x 9,1**	641	815	793	697	117	96
150	373	303	373	**150 x 10,7**	730	933	908	810	122	98
150	373	303	373	**150 x 12,2**	819	1050	1022	923	128	100
200	441	370	441	**200 x 9,1**	872	1181	1143	1035	146	109
200	441	370	441	**200 x 10,7**	993	1354	1310	1203	151	107
200	441	370	441	**200 x 12,2**	1115	1527	1477	1371	156	106
250	506	428	506	**250 x 9,1**	1168	1654	1595	1383	272	213
250	506	428	506	**250 x 10,7**	1329	1896	1827	1607	289	220
250	506	428	506	**250 x 12,2**	1490	2138	2059	1832	306	227
300	548	480	548	**300 x 9,1**	1429	2123	2038	1730	393	309
300	548	480	548	**300 x 10,7**	1621	2430	2331	2013	417	319
300	548	480	548	**300 x 12,2**	1812	2737	2624	2296	441	329
400	653	580	653	**400 x 9,1**	2018	3129	2993	2520	609	473
400	653	580	653	**400 x 10,7**	2290	3587	3429	2933	653	495
400	653	580	653	**400 x 12,2**	2563	4044	3864	3346	698	517
500	781	690	781	**500 x 9,1**	2742	4509	4294	3565	944	729
500	781	690	781	**500 x 10,7**	3096	5158	4907	4149	1010	758
500	781	690	781	**500 x 12,2**	3450	5807	5520	4732	1075	787

H3030T UF DASH POSEIDON

DOUBLE CARCASS

Double carcass tail submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	383	313	383	**150 x 9,1**	711	884	863	742	143	121
150	383	313	383	**150 x 10,7**	812	1014	989	861	153	128
150	383	313	383	**150 x 12,2**	913	1144	1116	981	163	135
200	441	370	441	**200 x 9,1**	872	1181	1143	1035	146	109
200	441	370	441	**200 x 10,7**	993	1354	1310	1203	151	107
200	441	370	441	**200 x 12,2**	1115	1527	1477	1371	156	106
250	506	428	506	**250 x 9,1**	1183	1669	1610	1383	287	227
250	506	428	506	**250 x 10,7**	1346	1913	1844	1607	305	236
250	506	428	506	**250 x 12,2**	1508	2157	2078	1832	324	245
300	560	490	560	**300 x 9,1**	1534	2227	2143	1800	428	343
300	560	490	560	**300 x 10,7**	1741	2551	2452	2094	456	358
300	560	490	560	**300 x 12,2**	1949	2874	2761	2389	485	373
400	661	588	661	**400 x 9,1**	2098	3209	3073	2590	619	484
400	661	588	661	**400 x 10,7**	2386	3682	3524	3014	668	510
400	661	588	661	**400 x 12,2**	2674	4155	3975	3439	716	536
500	791	699	791	**500 x 9,1**	2922	4689	4474	3664	1025	810
500	791	699	791	**500 x 10,7**	3304	5366	5115	4264	1103	851
500	791	699	791	**500 x 12,2**	3687	6044	5756	4864	1180	892

Double carcass tail submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	383	313	383	**150 x 9,1**	711	884	863	742	143	121
150	383	313	383	**150 x 10,7**	812	1014	989	861	153	128
150	383	313	383	**150 x 12,2**	913	1144	1116	981	163	134
200	441	370	441	**200 x 9,1**	882	1192	1154	1035	157	119
200	441	370	441	**200 x 10,7**	1005	1366	1322	1203	164	120
200	441	370	441	**200 x 12,2**	1129	1541	1491	1371	170	120
250	506	428	506	**250 x 9,1**	1183	1669	1610	1383	287	227
250	506	428	506	**250 x 10,7**	1346	1913	1844	1607	305	236
250	506	428	506	**250 x 12,2**	1508	2157	2078	1832	324	245
300	568	498	568	**300 x 9,1**	1601	2294	2210	1859	436	351
300	568	498	568	**300 x 10,7**	1821	2631	2532	2163	468	369
300	568	498	568	**300 x 12,2**	2042	2967	2854	2467	500	388
400	661	588	661	**400 x 9,1**	2136	3247	3111	2590	657	522
400	661	588	661	**400 x 10,7**	2430	3726	3568	3014	712	554
400	661	588	661	**400 x 12,2**	2723	4205	4024	3439	766	585
500	791	699	791	**500 x 9,1**	2922	4689	4474	3664	1025	810
500	791	699	791	**500 x 10,7**	3304	5366	5115	4264	1103	851
500	791	699	791	**500 x 12,2**	3687	6044	5756	4864	1180	892

H3838 UF DASH POSEIDON

DOUBLE CARCASS

Double carcass tanker rail submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	373	303	373	**150 x 9,1**	655	828	807	697	131	110
150	373	303	373	**150 x 10,7**	746	948	924	810	138	114
150	373	303	373	**150 x 12,2**	837	1069	1040	923	146	118
200	441	370	441	**200 x 9,1**	865	1175	1137	1035	140	102
200	441	370	441	**200 x 10,7**	986	1347	1303	1203	144	100
200	441	370	441	**200 x 12,2**	1106	1519	1469	1371	148	98
250	506	428	506	**250 x 9,1**	1161	1647	1588	1383	265	205
250	506	428	506	**250 x 10,7**	1320	1888	1819	1607	280	211
250	506	428	506	**250 x 12,2**	1480	2128	2049	1832	296	217
300	548	480	548	**300 x 9,1**	1458	2152	2067	1730	422	337
300	548	480	548	**300 x 10,7**	1654	2463	2365	2013	451	352
300	548	480	548	**300 x 12,2**	1850	2775	2662	2296	480	367
400	653	580	653	**400 x 9,1**	2012	3123	2987	2520	603	467
400	653	580	653	**400 x 10,7**	2283	3580	3422	2933	646	488
400	653	580	653	**400 x 12,2**	2555	4036	3856	3346	690	509
500	781	690	781	**500 x 9,1**	2743	4511	4295	3565	946	730
500	781	690	781	**500 x 10,7**	3098	5160	4909	4149	1011	760
500	781	690	781	**500 x 12,2**	3453	5809	5522	4732	1077	790

Double carcass tanker rail submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	383	313	383	**150 x 9,1**	724	898	877	742	156	135
150	383	313	383	**150 x 10,7**	828	1030	1005	861	168	144
150	383	313	383	**150 x 12,2**	931	1162	1134	981	181	153
200	441	370	441	**200 x 9,1**	865	1175	1137	1035	140	102
200	441	370	441	**200 x 10,7**	986	1347	1303	1203	144	100
200	441	370	441	**200 x 12,2**	1106	1519	1469	1371	148	98
250	506	428	506	**250 x 9,1**	1176	1662	1603	1383	279	220
250	506	428	506	**250 x 10,7**	1337	1904	1835	1607	297	228
250	506	428	506	**250 x 12,2**	1499	2147	2068	1832	314	235
300	560	490	560	**300 x 9,1**	1562	2256	2171	1800	456	372
300	560	490	560	**300 x 10,7**	1775	2584	2485	2094	490	391
300	560	490	560	**300 x 12,2**	1987	2912	2800	2389	524	411
400	661	588	661	**400 x 9,1**	2092	3203	3068	2590	614	478
400	661	588	661	**400 x 10,7**	2379	3675	3517	3014	661	503
400	661	588	661	**400 x 12,2**	2666	4148	3967	3439	709	528
500	791	699	791	**500 x 9,1**	2923	4691	4475	3664	1027	811
500	791	699	791	**500 x 10,7**	3306	5368	5117	4264	1104	853
500	791	699	791	**500 x 12,2**	3689	6046	5759	4864	1182	895

H3838 UF DASH POSEIDON

DOUBLE CARCASS

Double carcass tanker rail submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	383	313	383	**150 x 9,1**	724	898	877	742	156	135
150	383	313	383	**150 x 10,7**	828	1030	1005	861	168	144
150	383	313	383	**150 x 12,2**	931	1162	1134	981	181	153
200	441	370	441	**200 x 9,1**	876	1185	1148	1035	151	113
200	441	370	441	**200 x 10,7**	998	1359	1315	1203	156	112
200	441	370	441	**200 x 12,2**	1120	1533	1482	1371	162	112
250	506	428	506	**250 x 9,1**	1176	1662	1603	1383	279	220
250	506	428	506	**250 x 10,7**	1337	1904	1835	1607	297	228
250	506	428	506	**250 x 12,2**	1499	2147	2068	1832	314	235
300	568	498	568	**300 x 9,1**	1630	2324	2239	1859	465	381
300	568	498	568	**300 x 10,7**	1856	2665	2566	2163	503	404
300	568	498	568	**300 x 12,2**	2081	3007	2894	2467	540	427
400	661	588	661	**400 x 9,1**	2130	3241	3106	2590	652	516
400	661	588	661	**400 x 10,7**	2423	3719	3561	3014	705	547
400	661	588	661	**400 x 12,2**	2716	4197	4017	3439	758	578
500	791	699	791	**500 x 9,1**	2923	4691	4475	3664	1027	811
500	791	699	791	**500 x 10,7**	3306	5368	5117	4264	1104	853
500	791	699	791	**500 x 12,2**	3689	6046	5759	4864	1182	895

Double carcass fully reinforced submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	373	303	373	**150 x 9,1**	641	815	793	697	117	96
150	373	303	373	**150 x 10,7**	730	933	908	810	122	98
150	373	303	373	**150 x 12,2**	819	1050	1022	923	128	100
200	448	378	448	**200 x 9,1**	916	1226	1188	1077	149	111
200	448	378	448	**200 x 10,7**	1046	1407	1362	1252	154	110
200	448	378	448	**200 x 12,2**	1175	1587	1537	1427	160	110
250	513	436	513	**250 x 9,1**	1222	1708	1649	1431	277	217
250	513	436	513	**250 x 10,7**	1392	1959	1890	1664	295	226
250	513	436	513	**250 x 12,2**	1562	2210	2131	1897	313	234
300	554	486	554	**300 x 9,1**	1466	2160	2075	1770	390	305
300	554	486	554	**300 x 10,7**	1664	2473	2374	2059	414	315
300	554	486	554	**300 x 12,2**	1861	2786	2674	2349	437	325
400	670	593	670	**400 x 9,1**	2117	3228	3092	2630	598	462
400	670	593	670	**400 x 10,7**	2406	3702	3544	3060	642	484
400	670	593	670	**400 x 12,2**	2696	4177	3996	3491	686	505
500	804	713	804	**500 x 9,1**	3027	4794	4578	3802	992	776
500	804	713	804	**500 x 10,7**	3430	5492	5241	4425	1067	815
500	804	713	804	**500 x 12,2**	3833	6190	5903	5048	1142	854
600	933	835	933	**600 x 9,1**	4192	6771	6457	5211	1561	1246
600	933	835	933	**600 x 10,7**	4743	7753	7386	6066	1687	1320
600	933	835	933	**600 x 12,2**	5294	8734	8314	6920	1813	1394

H3737 UF DASH POSEIDON

DOUBLE CARCASS

Double carcass fully reinforced submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 x m	kg	kg	kg	kg	kg	kg
150	383	313	383	**150 x 9,1**	711	884	863	742	143	121
150	383	313	383	**150 x 10,7**	812	1014	989	861	153	128
150	383	313	383	**150 x 12,2**	913	1144	1116	981	163	134
200	448	378	448	**200 x 9,1**	916	1226	1188	1077	149	111
200	448	378	448	**200 x 10,7**	1046	1407	1362	1252	154	110
200	448	378	448	**200 x 12,2**	1175	1587	1537	1427	160	110
250	513	436	513	**250 x 9,1**	1237	1723	1664	1431	291	232
250	513	436	513	**250 x 10,7**	1409	1976	1907	1664	311	242
250	513	436	513	**250 x 12,2**	1580	2229	2150	1897	331	252
300	566	495	566	**300 x 9,1**	1571	2265	2180	1841	424	339
300	566	495	566	**300 x 10,7**	1785	2594	2496	2142	452	354
300	566	495	566	**300 x 12,2**	1999	2924	2811	2443	481	368
400	678	601	678	**400 x 9,1**	2197	3308	3172	2701	607	472
400	678	601	678	**400 x 10,7**	2502	3798	3640	3143	655	497
400	678	601	678	**400 x 12,2**	2807	4288	4108	3585	703	522
500	814	722	814	**500 x 9,1**	3208	4976	4760	3904	1071	856
500	814	722	814	**500 x 10,7**	3640	5702	5451	4544	1158	906
500	814	722	814	**500 x 12,2**	4072	6429	6141	5184	1245	957
600	933	835	933	**600 x 9,1**	4269	6849	6534	5211	1638	1323
600	933	835	933	**600 x 10,7**	4829	7839	7472	6066	1774	1407
600	933	835	933	**600 x 12,2**	5390	8830	8410	6920	1909	1490

Double carcass fully reinforced submarine hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 mm	D2 mm	D3 mm	mm x m	kg	kg	kg	kg	kg	kg
150	383	313	383	**150 x 9,1**	711	884	863	742	143	121
150	383	313	383	**150 x 10,7**	812	1014	989	861	153	128
150	383	313	383	**150 x 12,2**	913	1144	1116	981	163	134
200	448	378	448	**200 x 9,1**	927	1236	1199	1077	159	122
200	448	378	448	**200 x 10,7**	1058	1419	1375	1252	167	123
200	448	378	448	**200 x 12,2**	1189	1601	1551	1427	174	124
250	513	436	513	**250 x 9,1**	1237	1723	1664	1431	291	232
250	513	436	513	**250 x 10,7**	1409	1976	1907	1664	311	242
250	513	436	513	**250 x 12,2**	1580	2229	2150	1897	331	252
300	574	503	574	**300 x 9,1**	1638	2332	2247	1900	432	347
300	574	503	574	**300 x 10,7**	1865	2674	2576	2211	463	365
300	574	503	574	**300 x 12,2**	2092	3017	2904	2522	495	382
400	678	601	678	**400 x 9,1**	2235	3346	3211	2701	645	510
400	678	601	678	**400 x 10,7**	2546	3842	3684	3143	699	541
400	678	601	678	**400 x 12,2**	2857	4338	4157	3585	753	572
500	814	722	814	**500 x 9,1**	3208	4976	4760	3904	1071	856
500	814	722	814	**500 x 10,7**	3640	5702	5451	4544	1158	906
500	814	722	814	**500 x 12,2**	4072	6429	6141	5184	1245	957
600	968	852	968	**600 x 9,1**	4592	7172	6857	5446	1726	1411
600	968	852	968	**600 x 10,7**	5207	8217	7850	6337	1879	1512
600	968	852	968	**600 x 12,2**	5822	9262	8842	7229	2033	1614

H3006 HF DASH POSEIDON

DOUBLE CARCASS

Double carcass one end reinforced half floating hose (first of buoy)

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3	D4									
	mm	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	453	384	313	383	**150 x 9,1**	735	908	887	908	0	21	0,0	2,4
150	453	384	313	383	**150 x 10,7**	839	1041	1016	1059	18	42	1,7	4,1
150	453	384	313	383	**150 x 12,2**	944	1174	1146	1209	35	63	3,0	5,5
200	521	451	388	458	**200 x 9,1**	1011	1319	1282	1311	-8	30	-0,6	2,3
200	521	451	388	458	**200 x 10,7**	1155	1514	1470	1528	14	58	0,9	3,9
200	521	451	388	458	**200 x 12,2**	1302	1712	1662	1745	33	83	1,9	5,0
250	623	546	446	523	**250 x 9,1**	1349	1833	1774	1843	10	69	0,6	3,9
250	623	546	446	523	**250 x 10,7**	1539	2103	2034	2148	45	114	2,1	5,6
250	623	546	446	523	**250 x 12,2**	1732	2377	2299	2453	75	154	3,2	6,7
300	671	596	496	571	**300 x 9,1**	1591	2284	2199	2230	-53	31	-2,3	1,4
300	671	596	496	571	**300 x 10,7**	1808	2616	2517	2599	-17	81	-0,7	3,2
300	671	596	496	571	**300 x 12,2**	2028	2951	2838	2967	16	129	0,5	4,5
400	819	731	603	691	**400 x 9,1**	2246	3361	3225	3352	-9	127	-0,3	3,9
400	819	731	603	691	**400 x 10,7**	2553	3854	3695	3903	50	208	1,3	5,6
400	819	731	603	691	**400 x 12,2**	2865	4351	4170	4454	103	284	2,4	6,8
500	973	880	723	816	**500 x 9,1**	3165	4938	4722	4846	-92	124	-1,9	2,6
500	973	880	723	816	**500 x 10,7**	3585	5653	5401	5642	-11	241	-0,2	4,5
500	973	880	723	816	**500 x 12,2**	4019	6382	6094	6438	56	345	0,9	5,7
600	1130	1032	845	944	**600 x 9,1**	4275	6861	6546	6674	-187	128	-2,7	2,0
600	1130	1032	845	944	**600 x 10,7**	4832	7849	7481	7765	-84	284	-1,1	3,8
600	1130	1032	845	944	**600 x 12,2**	5406	8854	8434	8856	2	422	0,0	5,0

Double carcass one end reinforced half floating hose (first of buoy)

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3	D4									
	mm	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	463	393	323	393	**150 x 9,1**	807	980	959	958	-23	-2	-2,3	-0,2
150	463	393	323	393	**150 x 10,7**	924	1126	1102	1116	-10	15	-0,9	1,3
150	463	393	323	393	**150 x 12,2**	1041	1272	1244	1275	3	31	0,2	2,5
200	521	451	388	458	**200 x 9,1**	1012	1320	1282	1312	-8	30	-0,6	2,3
200	521	451	388	458	**200 x 10,7**	1155	1515	1471	1529	14	58	0,9	3,9
200	521	451	388	458	**200 x 12,2**	1302	1712	1662	1746	33	83	1,9	5,0
250	623	546	446	523	**250 x 9,1**	1364	1848	1789	1843	-5	54	-0,3	3,0
250	623	546	446	523	**250 x 10,7**	1556	2120	2051	2148	28	97	1,3	4,7
250	623	546	446	523	**250 x 12,2**	1751	2396	2318	2453	56	135	2,3	5,8
300	726	641	505	590	**300 x 9,1**	1725	2418	2333	2468	50	134	2,1	5,8
300	726	641	505	590	**300 x 10,7**	1963	2771	2673	2876	105	204	3,8	7,6
300	726	641	505	590	**300 x 12,2**	2204	3128	3015	3285	157	270	5,0	9,0
400	864	776	584	699	**400 x 9,1**	2353	3468	3332	3523	56	192	1,6	5,8
400	864	776	584	699	**400 x 10,7**	2680	3981	3822	4102	121	279	3,0	7,3
400	864	776	584	699	**400 x 12,2**	3012	4498	4317	4680	182	363	4,0	8,4
500	1019	927	733	825	**500 x 9,1**	3378	5151	4934	5197	46	263	0,9	5,3
500	1019	927	733	825	**500 x 10,7**	3833	5901	5648	6053	152	405	2,6	7,2
500	1019	927	733	825	**500 x 12,2**	4300	6664	6375	6909	245	534	3,7	8,4
600	1167	1068	845	944	**600 x 9,1**	4384	6970	6654	6952	-18	298	-0,3	4,5
600	1167	1068	845	944	**600 x 10,7**	4956	7973	7605	8090	117	485	1,5	6,4
600	1167	1068	845	944	**600 x 12,2**	5544	8992	8572	9228	236	656	2,6	7,7

H3006 HF DASH POSEIDON

DOUBLE CARCASS

Double carcass one end reinforced half floating hose (first of buoy)

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3	D4									
	mm	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	463	393	323	393	**150 x 9,1**	807	980	959	958	-23	-2	-2,3	-0,2
150	463	393	323	393	**150 x 10,7**	924	1126	1102	1116	-10	15	-0,9	1,3
150	463	393	323	393	**150 x 12,2**	1041	1272	1244	1275	3	31	0,2	2,5
200	521	451	388	458	**200 x 9,1**	1022	1330	1293	1311	-19	19	-1,4	1,4
200	521	451	388	458	**200 x 10,7**	1167	1526	1482	1528	2	46	0,1	3,1
200	521	451	388	458	**200 x 12,2**	1316	1726	1676	1745	19	69	1,1	4,1
250	623	546	446	523	**250 x 9,1**	1363	1847	1788	1843	-4	55	-0,2	3,1
250	623	546	446	523	**250 x 10,7**	1555	2119	2050	2148	29	98	1,4	4,8
250	623	546	446	523	**250 x 12,2**	1750	2395	2317	2453	57	136	2,4	5,9
300	734	649	513	598	**300 x 9,1**	1795	2487	2403	2536	49	133	2,0	5,5
300	734	649	513	598	**300 x 10,7**	2046	2854	2756	2956	102	200	3,6	7,3
300	734	649	513	598	**300 x 12,2**	2301	3224	3112	3376	151	264	4,7	8,5
400	864	776	584	699	**400 x 9,1**	2391	3506	3370	3523	18	154	0,5	4,6
400	864	776	584	699	**400 x 10,7**	2724	4025	3866	4102	77	235	1,9	6,1
400	864	776	584	699	**400 x 12,2**	3062	4548	4367	4680	132	313	2,9	7,2
500	1019	927	733	825	**500 x 9,1**	3378	5151	4934	5197	46	263	0,9	5,3
500	1019	927	733	825	**500 x 10,7**	3833	5901	5648	6053	152	405	2,6	7,2
500	1019	927	733	825	**500 x 12,2**	4300	6664	6375	6909	245	534	3,7	8,4
600	1203	1086	863	980	**600 x 9,1**	4700	7286	6971	7220	-66	249	-0,9	3,6
600	1203	1086	863	980	**600 x 10,7**	5325	8342	7974	8400	58	426	0,7	5,3
600	1203	1086	863	980	**600 x 12,2**	5966	9414	8994	9580	165	586	1,8	6,5

Double carcass mainline full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

PERFORMANCE			
Rated Working Pressure		bar	15
Min. burst pressure		bar	75
Min. burst pressure 2nd carcass		psi	550
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	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	482	412	482	**150 x 9,1**	749	922	901	1232	310	331	34	37
150	482	412	482	**150 x 10,7**	857	1059	1035	1441	381	406	36	39
150	482	412	482	**150 x 12,2**	964	1195	1167	1649	454	482	38	41
200	549	479	549	**200 x 9,1**	993	1301	1264	1667	366	403	28	32
200	549	479	549	**200 x 10,7**	1138	1497	1453	1949	452	496	30	34
200	549	479	549	**200 x 12,2**	1279	1689	1639	2230	540	590	32	36
250	651	573	651	**250 x 9,1**	1336	1820	1761	2375	554	614	30	35
250	651	573	651	**250 x 10,7**	1527	2091	2023	2777	685	754	33	37
250	651	573	651	**250 x 12,2**	1716	2361	2282	3179	818	897	35	39
300	691	623	691	**300 x 9,1**	1584	2277	2192	2793	516	600	23	27
300	691	623	691	**300 x 10,7**	1803	2611	2512	3268	657	756	25	30
300	691	623	691	**300 x 12,2**	2020	2943	2831	3744	801	913	27	32
400	839	757	839	**400 x 9,1**	2181	3296	3160	4121	824	960	25	30
400	839	757	839	**400 x 10,7**	2485	3786	3627	4825	1039	1197	27	33
400	839	757	839	**400 x 12,2**	2784	4271	4089	5529	1258	1439	29	35
500	997	906	997	**500 x 9,1**	3034	4807	4591	5879	1072	1288	22	28
500	997	906	997	**500 x 10,7**	3442	5510	5258	6886	1376	1628	25	31
500	997	906	997	**500 x 12,2**	3845	6209	5920	7892	1684	1972	27	33
600	1144	1057	1144	**600 x 9,1**	4032	6618	6303	7959	1341	1656	20	26
600	1144	1057	1144	**600 x 10,7**	4561	7578	7210	9330	1752	2120	23	29
600	1144	1057	1144	**600 x 12,2**	5084	8532	8112	10701	2169	2590	25	32

H3030 FF DASH POSEIDON

DOUBLE CARCASS

Double carcass mainline full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

PERFORMANCE			
Rated Working Pressure		bar	19
Min. burst pressure		bar	95
Min. burst pressure 2nd carcass		psi	550
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	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	492	422	492	**150 x 9,1**	822	995	974	1293	299	320	30	33
150	492	422	492	**150 x 10,7**	942	1144	1119	1512	368	393	32	35
150	492	422	492	**150 x 12,2**	1061	1292	1264	1730	438	466	34	37
200	549	479	549	**200 x 9,1**	993	1301	1264	1667	366	403	28	32
200	549	479	549	**200 x 10,7**	1138	1497	1453	1949	452	496	30	34
200	549	479	549	**200 x 12,2**	1279	1689	1639	2230	540	590	32	36
250	651	573	651	**250 x 9,1**	1351	1835	1776	2375	539	599	29	34
250	651	573	651	**250 x 10,7**	1544	2108	2040	2777	668	737	32	36
250	651	573	651	**250 x 12,2**	1735	2380	2301	3179	799	878	34	38
300	714	630	714	**300 x 9,1**	1695	2387	2303	2871	484	568	20	25
300	714	630	714	**300 x 10,7**	1932	2740	2641	3357	617	716	23	27
300	714	630	714	**300 x 12,2**	2166	3089	2976	3843	755	867	24	29
400	847	765	847	**400 x 9,1**	2262	3378	3242	4209	832	968	25	30
400	847	765	847	**400 x 10,7**	2581	3882	3723	4928	1046	1205	27	32
400	847	765	847	**400 x 12,2**	2898	4384	4203	5647	1262	1444	29	34
500	1007	915	1007	**500 x 9,1**	3219	4991	4775	6006	1014	1231	20	26
500	1007	915	1007	**500 x 10,7**	3656	5723	5471	7034	1310	1563	23	29
500	1007	915	1007	**500 x 12,2**	4088	6451	6163	8062	1611	1899	25	31
600	1180	1093	1180	**600 x 9,1**	4164	6750	6434	8450	1700	2016	25	31
600	1180	1093	1180	**600 x 10,7**	4711	7728	7360	9916	2188	2556	28	35
600	1180	1093	1180	**600 x 12,2**	5253	8701	8281	11381	2680	3101	31	37

Double carcass mainline full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	
Reserve buoyancy	min.	%	20

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	492	422	492	**150 x 9,1**	822	995	974	1293	299	320	30	33
150	492	422	492	**150 x 10,7**	942	1144	1119	1512	368	393	32	35
150	492	422	492	**150 x 12,2**	1061	1292	1264	1730	438	466	34	37
200	549	479	549	**200 x 9,1**	1004	1312	1275	1667	355	392	27	31
200	549	479	549	**200 x 10,7**	1150	1509	1465	1949	440	484	29	33
200	549	479	549	**200 x 12,2**	1293	1703	1653	2230	526	576	31	35
250	651	573	651	**250 x 9,1**	1351	1835	1776	2375	539	599	29	34
250	651	573	651	**250 x 10,7**	1544	2108	2040	2777	668	737	32	36
250	651	573	651	**250 x 12,2**	1735	2380	2301	3179	799	878	34	38
300	711	641	711	**300 x 9,1**	1760	2453	2368	2960	507	592	21	25
300	711	641	711	**300 x 10,7**	2010	2818	2720	3463	645	744	23	27
300	711	641	711	**300 x 12,2**	2258	3181	3068	3967	786	898	25	29
400	847	765	847	**400 x 9,1**	2300	3416	3280	4209	794	930	23	28
400	847	765	847	**400 x 10,7**	2625	3926	3767	4928	1002	1161	26	31
400	847	765	847	**400 x 12,2**	2946	4432	4251	5647	1214	1396	27	33
500	1007	915	1007	**500 x 9,1**	3219	4991	4775	6006	1014	1231	20	26
500	1007	915	1007	**500 x 10,7**	3656	5723	5471	7034	1310	1563	23	29
500	1007	915	1007	**500 x 12,2**	4088	6451	6163	8062	1611	1899	25	31
600	1215	1111	1215	**600 x 9,1**	4474	7060	6745	8770	1710	2025	24	30
600	1215	1111	1215	**600 x 10,7**	5073	8090	7722	10283	2193	2561	27	33
600	1215	1111	1215	**600 x 12,2**	5668	9116	8695	11796	2681	3101	29	36

H3232 FF DASH POSEIDON

DOUBLE CARCASS

Double carcass reducer full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	
Reserve buoyancy	min.	%	20

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
200/150	491	421	491	**200/150 x 9,1**	807	980	959	1290	310	331	32	34
200/150	491	421	491	**200/150 x 10,7**	923	1125	1101	1508	383	407	34	37
200/150	491	421	491	**200/150 x 12,2**	1040	1271	1243	1726	455	483	36	39
250/200	562	492	562	**250/200 x 9,1**	1093	1400	1363	1763	363	400	26	29
250/200	562	492	562	**250/200 x 10,7**	1252	1611	1567	2060	450	493	28	31
250/200	562	492	562	**250/200 x 12,2**	1411	1822	1772	2358	536	586	29	33
300/250	663	587	663	**300/250 x 9,1**	1465	1949	1890	2492	543	602	28	32
300/250	663	587	663	**300/250 x 10,7**	1674	2239	2170	2914	676	744	30	34
300/250	663	587	663	**300/250 x 12,2**	1885	2530	2451	3336	806	885	32	36
400/300	711	636	711	**400/300 x 9,1**	1723	2415	2331	2923	507	592	21	25
400/300	711	636	711	**400/300 x 10,7**	1961	2769	2670	3419	650	749	23	28
400/300	711	636	711	**400/300 x 12,2**	2199	3122	3010	3915	793	906	25	30
500/400	863	775	863	**500/400 x 9,1**	2444	3560	3424	4322	763	899	21	26
500/400	863	775	863	**500/400 x 10,7**	2761	4062	3903	5059	997	1156	25	30
500/400	863	775	863	**500/400 x 12,2**	3096	4583	4402	5796	1213	1394	26	32
600/500	1055	963	1055	**600/500 x 9,1**	3433	5205	4989	6602	1397	1613	27	32
600/500	1055	963	1055	**600/500 x 10,7**	3898	5966	5713	7739	1774	2026	30	35
600/500	1055	963	1055	**600/500 x 12,2**	4370	6734	6446	8877	2143	2431	32	38

Double carcass reducer full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

PERFORMANCE			
Rated Working Pressure		bar	19
Min. burst pressure		bar	95
Min. burst pressure 2nd carcass		psi	550
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	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
200/150	501	431	501	**200/150 x 9,1**	881	1054	1033	1350	296	317	28	31
200/150	501	431	501	**200/150 x 10,7**	1010	1211	1187	1577	366	390	30	33
200/150	501	431	501	**200/150 x 12,2**	1139	1370	1341	1805	435	463	32	35
250/200	562	492	562	**250/200 x 9,1**	1093	1400	1363	1763	363	400	26	29
250/200	562	492	562	**250/200 x 10,7**	1252	1611	1567	2060	450	493	28	31
250/200	562	492	562	**250/200 x 12,2**	1411	1822	1772	2358	536	586	29	33
300/250	663	587	663	**300/250 x 9,1**	1479	1963	1904	2492	529	588	27	31
300/250	663	587	663	**300/250 x 10,7**	1690	2255	2186	2914	660	728	29	33
300/250	663	587	663	**300/250 x 12,2**	1903	2548	2469	3336	788	867	31	35
400/300	730	646	730	**400/300 x 9,1**	1837	2529	2445	3020	491	576	19	24
400/300	730	646	730	**400/300 x 10,7**	2092	2900	2802	3532	631	730	22	26
400/300	730	646	730	**400/300 x 12,2**	2348	3271	3159	4043	772	884	24	28
500/400	907	805	907	**500/400 x 9,1**	2544	3659	3523	4650	990	1126	27	32
500/400	907	805	907	**500/400 x 10,7**	2903	4203	4045	5445	1242	1400	30	35
500/400	907	805	907	**500/400 x 12,2**	3261	4748	4566	6240	1493	1674	31	37
600/500	1065	972	1065	**600/500 x 9,1**	3619	5392	5176	6736	1345	1561	25	30
600/500	1065	972	1065	**600/500 x 10,7**	4114	6182	5929	7896	1715	1967	28	33
600/500	1065	972	1065	**600/500 x 12,2**	4616	6980	6691	9057	2077	2365	30	35

H3232 FF DASH POSEIDON

DOUBLE CARCASS

Double carcass reducer full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	
Reserve buoyancy	min.	%	20

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
200/150	501	431	501	**200/150 x 9,1**	881	1054	1033	1350	296	317	28	31
200/150	501	431	501	**200/150 x 10,7**	1010	1211	1187	1577	366	390	30	33
200/150	501	431	501	**200/150 x 12,2**	1139	1370	1341	1805	435	463	32	35
250/200	562	492	562	**250/200 x 9,1**	1104	1411	1374	1763	352	389	25	28
250/200	562	492	562	**250/200 x 10,7**	1264	1623	1579	2060	438	481	27	30
250/200	562	492	562	**250/200 x 12,2**	1425	1836	1786	2358	522	572	28	32
300/250	663	587	663	**300/250 x 9,1**	1479	1963	1904	2492	529	588	27	31
300/250	663	587	663	**300/250 x 10,7**	1690	2255	2186	2914	660	728	29	33
300/250	663	587	663	**300/250 x 12,2**	1903	2548	2469	3336	788	867	31	35
400/300	738	654	738	**400/300 x 9,1**	1907	2599	2515	3096	497	581	19	23
400/300	738	654	738	**400/300 x 10,7**	2176	2984	2885	3620	636	735	21	25
400/300	738	654	738	**400/300 x 12,2**	2444	3368	3255	4144	777	889	23	27
500/400	871	783	871	**500/400 x 9,1**	2547	3662	3526	4413	751	887	21	25
500/400	871	783	871	**500/400 x 10,7**	2905	4206	4047	5165	959	1118	23	28
500/400	871	783	871	**500/400 x 12,2**	3262	4749	4568	5917	1168	1349	25	30
600/500	1065	972	1065	**600/500 x 9,1**	3619	5392	5176	6736	1345	1561	25	30
600/500	1065	972	1065	**600/500 x 10,7**	4114	6182	5929	7896	1715	1967	28	33
600/500	1065	972	1065	**600/500 x 12,2**	4616	6980	6691	9057	2077	2365	30	35

Double carcass tail full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	
Reserve buoyancy	min.	%	20

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	490	420	490	**150 x 9,1**	785	958	937	1281	323	344	34	37
150	490	420	490	**150 x 10,7**	899	1100	1076	1497	397	421	36	39
150	490	420	490	**150 x 12,2**	1011	1242	1214	1714	472	500	38	41
200	557	487	557	**200 x 9,1**	1040	1348	1310	1724	376	413	28	32
200	557	487	557	**200 x 10,7**	1191	1550	1506	2014	465	508	30	34
200	557	487	557	**200 x 12,2**	1341	1751	1701	2305	554	604	32	36
250	658	581	658	**250 x 9,1**	1391	1875	1816	2441	566	625	30	34
250	658	581	658	**250 x 10,7**	1592	2156	2087	2855	699	768	32	37
250	658	581	658	**250 x 12,2**	1790	2435	2356	3268	833	912	34	39
300	701	633	701	**300 x 9,1**	1668	2361	2276	2884	523	608	22	27
300	701	633	701	**300 x 10,7**	1903	2711	2612	3375	664	763	25	29
300	701	633	701	**300 x 12,2**	2134	3057	2944	3866	809	922	26	31
400	850	768	850	**400 x 9,1**	2335	3450	3314	4238	788	924	23	28
400	850	768	850	**400 x 10,7**	2665	3965	3807	4962	997	1155	25	30
400	850	768	850	**400 x 12,2**	2991	4477	4296	5686	1208	1390	27	32
500	1005	913	1005	**500 x 9,1**	3145	4917	4701	5979	1062	1278	22	27
500	1005	913	1005	**500 x 10,7**	3572	5640	5388	7003	1363	1615	24	30
500	1005	913	1005	**500 x 12,2**	3994	6357	6069	8027	1669	1957	26	32

H3030T FF DASH POSEIDON

DOUBLE CARCASS

Double carcass tail full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	
Reserve buoyancy	min.	%	20

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	499	429	499	**150 x 9,1**	857	1030	1009	1337	307	328	30	33
150	499	429	499	**150 x 10,7**	984	1186	1162	1563	376	401	32	35
150	499	429	499	**150 x 12,2**	1110	1340	1312	1788	448	476	33	36
200	557	487	557	**200 x 9,1**	1040	1348	1310	1724	376	413	28	32
200	557	487	557	**200 x 10,7**	1191	1550	1506	2014	465	508	30	34
200	557	487	557	**200 x 12,2**	1341	1751	1701	2305	554	604	32	36
250	658	581	658	**250 x 9,1**	1406	1890	1831	2441	551	610	29	33
250	658	581	658	**250 x 10,7**	1609	2173	2104	2855	682	751	31	36
250	658	581	658	**250 x 12,2**	1808	2453	2374	3268	815	894	33	38
300	712	642	712	**300 x 9,1**	1776	2468	2384	2969	501	586	20	25
300	712	642	712	**300 x 10,7**	2027	2835	2736	3474	639	738	23	27
300	712	642	712	**300 x 12,2**	2275	3199	3086	3979	781	893	24	29
400	858	776	858	**400 x 9,1**	2418	3533	3397	4328	795	931	22	27
400	858	776	858	**400 x 10,7**	2765	4065	3907	5067	1001	1160	25	30
400	858	776	858	**400 x 12,2**	3106	4593	4412	5806	1213	1394	26	32
500	1050	959	1050	**500 x 9,1**	3378	5151	4934	6543	1393	1609	27	33
500	1050	959	1050	**500 x 10,7**	3843	5911	5659	7671	1760	2012	30	36
500	1050	959	1050	**500 x 12,2**	4303	6666	6378	8798	2132	2420	32	38

Double carcass tail full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	
Reserve buoyancy	min.	%	20

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	499	429	499	**150 x 9,1**	857	1030	1009	1337	307	328	30	33
150	499	429	499	**150 x 10,7**	984	1186	1162	1563	376	401	32	35
150	499	429	499	**150 x 12,2**	1110	1340	1312	1788	448	476	33	36
200	557	487	557	**200 x 9,1**	1050	1358	1320	1724	366	403	27	31
200	557	487	557	**200 x 10,7**	1203	1562	1518	2014	453	496	29	33
200	557	487	557	**200 x 12,2**	1354	1764	1714	2305	541	591	31	34
250	658	581	658	**250 x 9,1**	1406	1890	1831	2441	551	610	29	33
250	658	581	658	**250 x 10,7**	1609	2173	2104	2855	682	751	31	36
250	658	581	658	**250 x 12,2**	1808	2453	2374	3268	815	894	33	38
300	720	650	720	**300 x 9,1**	1846	2538	2454	3044	506	591	20	24
300	720	650	720	**300 x 10,7**	2111	2919	2820	3562	644	742	22	26
300	720	650	720	**300 x 12,2**	2373	3296	3183	4080	784	896	24	28
400	858	776	858	**400 x 9,1**	2456	3571	3435	4328	757	893	21	26
400	858	776	858	**400 x 10,7**	2808	4108	3950	5067	958	1117	23	28
400	858	776	858	**400 x 12,2**	3155	4642	4461	5806	1164	1345	25	30
500	1050	959	1050	**500 x 9,1**	3378	5151	4934	6544	1394	1610	27	33
500	1050	959	1050	**500 x 10,7**	3843	5911	5659	7672	1761	2014	30	36
500	1050	959	1050	**500 x 12,2**	4303	6666	6378	8800	2134	2422	32	38

H3838 DF DASH POSEIDON

DOUBLE CARCASS

Double carcass tanker rail dumbel floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

PERFORMANCE			
Rated Working Pressure		bar	15
Min. burst pressure		bar	75
Min. burst pressure 2nd carcass		psi	550
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	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	532	423	496	**150 x 9,1**	871	1044	1023	1610	566	587	54	57
150	532	423	496	**150 x 10,7**	1001	1203	1178	1871	669	693	56	59
150	532	423	496	**150 x 12,2**	1132	1362	1334	2117	755	783	55	59
200	636	490	563	**200 x 9,1**	1134	1442	1405	2177	735	773	51	55
200	636	490	563	**200 x 10,7**	1308	1667	1623	2538	871	915	52	56
200	636	490	563	**200 x 12,2**	1481	1891	1841	2863	971	1021	51	55
250	731	548	657	**250 x 9,1**	1475	1959	1900	2825	865	924	44	49
250	731	548	657	**250 x 10,7**	1699	2264	2195	3287	1023	1092	45	50
250	731	548	657	**250 x 12,2**	1923	2568	2490	3708	1140	1218	44	49
300	929	600	856	**300 x 9,1**	1876	2569	2484	3901	1333	1417	52	57
300	929	600	856	**300 x 10,7**	2172	2980	2881	4545	1565	1664	53	58
300	929	600	856	**300 x 12,2**	2467	3391	3278	5136	1745	1858	51	57
400	1138	699	1029	**400 x 9,1**	2571	3686	3550	5699	2013	2149	55	61
400	1138	699	1029	**400 x 10,7**	2984	4285	4127	6299	2014	2173	47	52
400	1138	699	1029	**400 x 12,2**	3399	4885	4704	7128	2243	2424	46	52
500	1321	809	1248	**500 x 9,1**	3406	5178	4962	7564	2386	2602	46	52
500	1321	809	1248	**500 x 10,7**	3939	6007	5755	8367	2360	2612	39	45
500	1321	809	1248	**500 x 12,2**	4472	6836	6548	9533	2697	2985	39	46

Double carcass tanker rail dumbel floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	
Reserve buoyancy	min.	%	20

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	578	432	505	**150 x 9,1**	963	1136	1115	1746	610	631	54	57
150	578	432	505	**150 x 10,7**	1113	1315	1290	2034	719	744	55	58
150	578	432	505	**150 x 12,2**	1263	1494	1466	2290	796	824	53	56
200	636	490	563	**200 x 9,1**	1134	1442	1405	2177	735	773	51	55
200	636	490	563	**200 x 10,7**	1308	1667	1623	2538	871	915	52	56
200	636	490	563	**200 x 12,2**	1481	1891	1841	2863	971	1021	51	55
250	731	548	657	**250 x 9,1**	1490	1974	1915	2825	850	909	43	47
250	731	548	657	**250 x 10,7**	1715	2280	2211	3287	1007	1076	44	49
250	731	548	657	**250 x 12,2**	1941	2586	2508	3708	1122	1200	43	48
300	938	609	865	**300 x 9,1**	1986	2678	2594	3999	1320	1405	49	54
300	938	609	865	**300 x 10,7**	2299	3106	3008	4658	1552	1650	50	55
300	938	609	865	**300 x 12,2**	2611	3535	3422	5264	1730	1842	49	54
400	1146	707	1037	**400 x 9,1**	2656	3771	3635	5801	2031	2167	54	60
400	1146	707	1037	**400 x 10,7**	3086	4387	4228	6415	2028	2187	46	51
400	1146	707	1037	**400 x 12,2**	3516	5003	4822	7260	2257	2438	45	51
500	1331	818	1258	**500 x 9,1**	3591	5364	5148	7706	2342	2558	44	50
500	1331	818	1258	**500 x 10,7**	4154	6222	5970	8528	2306	2558	37	43
500	1331	818	1258	**500 x 12,2**	4717	7081	6793	9717	2636	2925	37	43

H3838 DF DASH POSEIDON

DOUBLE CARCASS

Double carcass tanker rail dumbel floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

PERFORMANCE			
Rated Working Pressure		bar	21
Min. burst pressure		bar	105
Min. burst pressure 2nd carcass		psi	550
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	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	578	432	505	**150 x 9,1**	963	1136	1115	1746	610	631	54	57
150	578	432	505	**150 x 10,7**	1113	1315	1290	2034	719	744	55	58
150	578	432	505	**150 x 12,2**	1263	1494	1466	2290	796	824	53	56
200	636	490	563	**200 x 9,1**	1145	1453	1416	2177	724	762	50	54
200	636	490	563	**200 x 10,7**	1320	1679	1635	2538	859	903	51	55
200	636	490	563	**200 x 12,2**	1494	1904	1854	2863	958	1008	50	54
250	731	548	657	**250 x 9,1**	1490	1974	1915	2825	850	909	43	47
250	731	548	657	**250 x 10,7**	1715	2280	2211	3287	1007	1076	44	49
250	731	548	657	**250 x 12,2**	1941	2586	2508	3708	1122	1200	43	48
300	946	617	873	**300 x 9,1**	2057	2749	2665	4084	1335	1420	49	53
300	946	617	873	**300 x 10,7**	2384	3191	3093	4758	1566	1665	49	54
300	946	617	873	**300 x 12,2**	2712	3635	3522	5378	1743	1856	48	53
400	1146	707	1037	**400 x 9,1**	2694	3809	3673	5801	1993	2129	52	58
400	1146	707	1037	**400 x 10,7**	3130	4431	4272	6415	1984	2143	45	49
400	1146	707	1037	**400 x 12,2**	3565	5052	4871	7260	2208	2389	44	49
500	1331	818	1258	**500 x 9,1**	3591	5364	5148	7706	2342	2558	44	50
500	1331	818	1258	**500 x 10,7**	4154	6222	5970	8528	2306	2558	37	43
500	1331	818	1258	**500 x 12,2**	4717	7081	6793	9717	2636	2925	37	43

Double carcass fully reinforced full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire cord skimmed with rubber
Wire helix	Embedded in synthetic rubber
Reinforcing fabric plies	Polyester
Cover	Abrasion resistant rubber in Chloroprene
Fitting	Built-in

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

PERFORMANCE			
Rated Working Pressure		bar	15
Min. burst pressure		bar	75
Min. burst pressure 2nd carcass		psi	550
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	
Reserve buoyancy	min.	%	20

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	495	425	495	**150 x 9,1**	816	989	968	1312	323	344	33	36
150	495	425	495	**150 x 10,7**	935	1137	1113	1533	396	421	35	38
150	495	425	495	**150 x 12,2**	1054	1285	1257	1755	470	498	37	40
200	570	500	570	**200 x 9,1**	1121	1429	1391	1818	389	426	27	31
200	570	500	570	**200 x 10,7**	1286	1645	1601	2124	479	523	29	33
200	570	500	570	**200 x 12,2**	1449	1859	1809	2431	571	621	31	34
250	671	594	671	**250 x 9,1**	1489	1973	1914	2553	580	639	29	33
250	671	594	671	**250 x 10,7**	1705	2270	2201	2985	715	784	32	36
250	671	594	671	**250 x 12,2**	1921	2566	2487	3417	851	930	33	37
300	712	644	712	**300 x 9,1**	1753	2445	2361	2986	541	625	22	26
300	712	644	712	**300 x 10,7**	2001	2809	2711	3494	685	784	24	29
300	712	644	712	**300 x 12,2**	2247	3170	3057	4003	832	945	26	31
400	868	786	868	**400 x 9,1**	2493	3608	3472	4439	831	967	23	28
400	868	786	868	**400 x 10,7**	2851	4152	3993	5197	1045	1204	25	30
400	868	786	868	**400 x 12,2**	3204	4691	4510	5955	1263	1445	27	32
500	1033	942	1033	**500 x 9,1**	3505	5277	5061	6362	1085	1301	21	26
500	1033	942	1033	**500 x 10,7**	3994	6062	5810	7450	1388	1640	23	28
500	1033	942	1033	**500 x 12,2**	4479	6842	6554	8538	1696	1984	25	30
600	1234	1136	1234	**600 x 9,1**	4849	7435	7120	9160	1725	2040	23	29
600	1234	1136	1234	**600 x 10,7**	5517	8534	8166	10742	2208	2576	26	32
600	1234	1136	1234	**600 x 12,2**	6181	9629	9208	12324	2696	3116	28	34

H3737 FF DASH POSEIDON

DOUBLE CARCASS

Double carcass fully reinforced full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		psi	550
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	
Reserve buoyancy	min.	%	20

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	505	435	505	**150 x 9,1**	890	1063	1042	1375	312	333	29	32
150	505	435	505	**150 x 10,7**	1022	1224	1199	1607	383	408	31	34
150	505	435	505	**150 x 12,2**	1152	1383	1355	1839	456	484	33	36
200	570	500	570	**200 x 9,1**	1121	1429	1391	1818	389	426	27	31
200	570	500	570	**200 x 10,7**	1286	1645	1601	2124	479	523	29	33
200	570	500	570	**200 x 12,2**	1449	1859	1809	2431	571	621	31	34
250	671	594	671	**250 x 9,1**	1504	1988	1929	2553	565	624	28	32
250	671	594	671	**250 x 10,7**	1722	2287	2218	2985	698	767	31	35
250	671	594	671	**250 x 12,2**	1939	2584	2505	3417	833	912	32	36
300	724	653	724	**300 x 9,1**	1861	2554	2469	3074	520	605	20	24
300	724	653	724	**300 x 10,7**	2126	2934	2836	3596	662	761	23	27
300	724	653	724	**300 x 12,2**	2390	3313	3200	4119	806	918	24	29
400	876	794	876	**400 x 9,1**	2578	3693	3557	4531	838	974	23	27
400	876	794	876	**400 x 10,7**	2951	4252	4093	5304	1052	1211	25	30
400	876	794	876	**400 x 12,2**	3320	4807	4626	6077	1271	1452	26	31
500	1079	987	1079	**500 x 9,1**	3741	5514	5298	6944	1430	1646	26	31
500	1079	987	1079	**500 x 10,7**	4268	6336	6084	8140	1803	2056	28	34
500	1079	987	1079	**500 x 12,2**	4790	7154	6865	9335	2182	2470	30	36
600	1234	1136	1234	**600 x 9,1**	4926	7512	7197	9160	1648	1963	22	27
600	1234	1136	1234	**600 x 10,7**	5604	8621	8253	10742	2121	2489	25	30
600	1234	1136	1234	**600 x 12,2**	6277	9725	9304	12324	2600	3020	27	32

Double carcass fully reinforced full floating hose

CONSTRUCTION	
Oil resistant liner	NBR
Main reinforcement of 1st carcass	Steel wire 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
Min. burst pressure 2nd carcass		bar	550
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	
Reserve buoyancy	min.	%	20

Main reinf. of 2nd carcass: nylon cord skimmed with rubber

CHARACTERISTICS

Nom. 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 buoyancy full of water	Net buoyancy full of oil	R.B. fully of water	R.B. fully of oil
	D1	D2	D3									
	mm	mm	mm	mm x m	kg	kg	kg	kg	kg	kg	%	%
150	505	435	505	**150 x 9,1**	890	1063	1042	1375	312	333	29	32
150	505	435	505	**150 x 10,7**	1022	1224	1199	1607	383	408	31	34
150	505	435	505	**150 x 12,2**	1152	1383	1355	1839	456	484	33	36
200	570	500	570	**200 x 9,1**	1131	1439	1401	1818	379	416	26	30
200	570	500	570	**200 x 10,7**	1298	1657	1613	2124	467	511	28	32
200	570	500	570	**200 x 12,2**	1463	1873	1823	2431	557	607	30	33
250	671	594	671	**250 x 9,1**	1504	1988	1929	2553	565	624	28	32
250	671	594	671	**250 x 10,7**	1722	2287	2218	2985	698	767	31	35
250	671	594	671	**250 x 12,2**	1939	2584	2505	3417	833	912	32	36
300	732	661	732	**300 x 9,1**	1931	2624	2539	3150	527	611	20	24
300	732	661	732	**300 x 10,7**	2211	3019	2920	3686	667	765	22	26
300	732	661	732	**300 x 12,2**	2487	3410	3298	4221	811	923	24	28
400	876	794	876	**400 x 9,1**	2616	3731	3595	4531	800	936	21	26
400	876	794	876	**400 x 10,7**	2995	4296	4137	5304	1008	1167	23	28
400	876	794	876	**400 x 12,2**	3370	4857	4676	6077	1221	1402	25	30
500	1079	987	1079	**500 x 9,1**	3741	5514	5298	6944	1430	1646	26	31
500	1079	987	1079	**500 x 10,7**	4268	6336	6084	8140	1803	2056	28	34
500	1079	987	1079	**500 x 12,2**	4790	7154	6865	9335	2182	2470	30	36
600	1269	1153	1269	**600 x 9,1**	5259	7845	7529	9493	1649	1964	21	26
600	1269	1153	1269	**600 x 10,7**	5994	9011	8643	11125	2114	2482	23	29
600	1269	1153	1269	**600 x 12,2**	6722	10170	9750	12757	2587	3007	25	31

Manuli Rubber Industries S.p.A. - Oil & Marine
Administration & Operating Offices
Via L. Cadorna, 73 - 20090 Vimodrone (MI) - Italy
Phone +39 02 62713.329 - Fax +39 02 62713.329
Email: Oil&Marine@manulirubber.com
http://www.manulirubber.com/OilAndMarine