



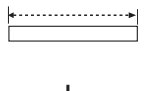
Group 8

Hoses
Oil - Fuel



FLUID CONTROL®

Symbol Key for Hose Tables

Part No.	Hose inside diameter in mm and inches		Hose outside diameter in mm	Hose wall thickness in mm	Hose net weight per meter	Hose maximum working pressure	Hose min. burst pressure = work. pressure x SF	Hose temperature range	Hose maximum vacuum limit	Hose minimum bend radius	Available hose lengths from the factory
#											
Part No.	mm	in"	mm	mm	kg/m	bar	bar	Temp °C	bar	mm	m



New product in this catalogue



Anti-static hose (This label is not on the hoses with steel spiral)



Food Industry Hose



Hose with particularly good wear resistance



Non Conductive Hose



Available for rental

Page	Contents
2	Index
3	Fuel and Oil Hoses 10 Bar with and without Steel Spiral
4	Fuel and Oil Hoses 16 Bar with and without Steel Spiral 1"-2.1/2"
5	Fuel and Oil Hoses 20 Bar with and without Steel Spiral 3"-10"
6	Mud and Bulk Loading Hose 39/40 Bar Softwall, 40/30 Bar Hardwall
7	"Heavy duty" Petroleum and Oil Hoses 9 tons 27 Bar without Steel Spiral. Universal Oil Hose TPE
8	Exhaust Hose, Light Suction Hose. "Butterworth" Tank Cleaning Hose.
9-10	Bulk Loading Hoses



PETROLEUM / OIL HOSE "SOFTWALL" 10 BAR

CONSTRUCTION:

Inside:

Black NBR.

Reinforcement:

Synthetic textile braid with high tensile strength.

Outside:

Black NBR / EPDM.

Description:

Universal hose for oils, petroleum, hydraulic oils, chemicals and inert gases.

#											
Part No.	ID mm	"	OD mm	WT mm	WT kg/m	WP bar	BP bar	T Temp °C	V bar	BR mm	L m
21078-005	5	3/16"	11.5	3.25	0.11	10	40	-30 / +93	-	40	100 / 50
21078-006	6	1/4"	13	3.5	0.13	10	40	-30 / +93	-	50	100 / 50
21078-008	8	5/16"	14.5	3.25	0.15	10	40	-30 / +93	-	65	100 / 50
21078-010	10	3/8"	17	3.5	0.21	10	40	-30 / +93	-	80	100 / 50
21078-013	13	1/2"	21.5	3.75	0.33	10	40	-30 / +93	-	100	100 / 50
21078-016	16	5/8"	25.5	4.75	0.42	10	40	-30 / +93	-	130	100 / 50
21078-019	19	3/4"	30	5.5	0.54	10	40	-30 / +93	-	160	50
21078-025	25	1"	36	5.5	0.73	10	40	-30 / +93	-	200	50
21078-032	32	1 1/4"	45.5	7.0	1.19	20	60	-40 / +100	-	250	50
21078-038	38	1 1/2"	52.0	7.0	1.40	20	60	-40 / +100	-	305	50



TANK AND BULK LOADING HOSE "HARDWALL" 10 BAR

CONSTRUCTION:

Inside:

Black NBR rubber.

Reinforcement:

Synthetic textile braid and steel spiral.

Outside:

Black CR rubber.

Description:

Oil, fuel and hydraulic hose. Resistant to oils with hydrocarbons with up to 50% aromatic content.

Other dimensions available on request.

#											
Part No.	ID mm	"	OD mm	WT mm	WT kg/m	WP bar	BP bar	T Temp °C	V bar	BR mm	L m
22605-019	19	3/4"	29	5	0.75	10	30	-30 / +93	0,8	120	40
22605-025	25	1"	35	5	0.89	10	30	-30 / +93	0,8	150	40
22605-032	32	1 1/4"	42	5	1.10	10	30	-30 / +93	0,8	195	40
22605-038	38	1 1/2"	50	6	1.37	10	30	-30 / +93	0,8	230	40
22605-050	51	2"	62	5.5	1.90	10	30	-30 / +93	0,8	300	40
22605-063	63	2 1/2"	76	6.5	2.30	10	30	-30 / +93	0,8	380	40
22605-075	76	3"	90	7	3.25	10	30	-30 / +93	0,8	450	40
22605-100	102	4"	118	8	4.60	10	30	-30 / +93	0,8	600	40
22605-125	127	5"	148	10.5	6.65	10	30	-30 / +93	0,8	1020	20
22605-150	152	6"	172	10	8.85	10	30	-30 / +93	0,8	1220	20

At high temperatures the working pressure is reduced. Constant high pressure and temperature reduces the tube life span.



OIL / BULK LOADING HOSE "SOFTWALL" EN 12115 - 16 BAR

CONSTRUCTION:

Inside:

Black NBR rubber. Resistant to hydrocarbons (oils) with up to 55% aromatic content.

Reinforcement:

4 layers synthetic textile cord.

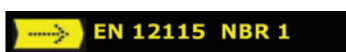
Outside:

Electrically conductive black CR rubber. Oil, weather and ozone resistant. R <1M ohm

Description:

Powerful tank, oil and bulk loading hose.

Labeling:



#											
Part No.	ID mm	"	OD mm	WT mm	WT kg/m	WP bar	BP bar	T Temp °C	V %	BR mm	L m
21612-025	25	1"	37	6	0.70	16	64	-30 / +80	-	250	40
21612-032	32	1.1/4"	44	6	0.87	16	64	-30 / +80	-	320	40
21612-038	38	1.1/2"	51	6.5	1.07	16	64	-30 / +80	-	380	40
21612-050	51	2"	67	8	1.65	16	64	-30 / +80	-	500	40
21612-063	63	2.1/2"	79	8	2.00	16	64	-30 / +80	-	630	40



OIL / BULK LOADING HOSE "HARDWALL" EN 12115 - 16 BAR

CONSTRUCTION:

Inside:

Black NBR rubber. Resistant to hydrocarbons (oils) with up to 55% aromatic content.

Reinforcement:

4 layers synthetic textile braid and 2 steel spirals..

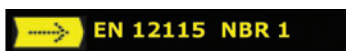
Outside:

Black CR - Oil, weather and ozone resistant.

Description:

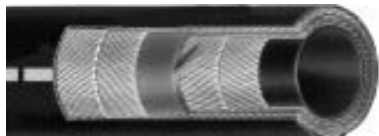
Powerful bulk loading hose for oil installations and ships, where there are high wear and tensile strength requirements. Suitable for both liquids and solids.

Labeling:



#											
Part No.	ID mm	"	OD mm	WT mm	WT kg/m	WP bar	BP bar	T Temp °C	V bar	BR mm	L m
22613-025	25	1"	37	6	0.80	16	64	-30 / +80	0.9	150	40
22613-032	32	1.1/4"	44	6	0.98	16	64	-30 / +80	0.9	200	40
22613-038	38	1.1/2"	51	6.5	1.14	16	64	-30 / +80	0.9	230	40
22613-050	51	2"	65	7	1.64	16	64	-30 / +80	0.9	300	40
22613-063	63	2.1/2"	78	7.5	2.40	16	64	-30 / +80	0.9	380	40

At high temperatures the working pressure is reduced. Constant high pressure and temperature reduces the tube life span.



TANK AND BULK LOADING HOSE "SOFTWALL" 20 BAR

CONSTRUCTION:**Inside:**

Black NBR rubber. Resistant to oils with up to 55% aromatic content.

Reinforcement:

4 layers synthetic textile cord with high tensile strength. Max 4% prolongation at 17 bar.

Outside:

Black CR - Oil, weather, wear and ozone resistant. Inlaid grounding slit.

Description:

Powerful bulk loading hose for oil installations and ships, where there are requirements for high wear and tensile strength. Suitable for both liquids and solids.

#											
Part No.	ID mm	"	OD mm	WT mm	WT kg/m	WP bar	BP bar	T Temp °C	V bar	BR mm	L m
21612-075	76	3"	90	7	2.85	20	60	-40 / +93	-	600	61/122
21612-100	102	4"	116	7	4.00	20	60	-40 / +93	-	820	61/122
21612-125	127	5"	143	8	4.99	20	60	-40 / +93	-	1020	61/122
21612-150	152	6"	170	9	5.20	20	60	-40 / +93	-	1220	61/122
21612-200	203	8"	223	10	8.05	20	60	-40 / +93	-	1620	61
21612-250	254	10"	280	13	13.60	20	60	-40 / +93	-	2040	30.5

8



TANK AND BULK LOADING HOSE "HARDWALL" 20 BAR

CONSTRUCTION:**Inside:**

Black NBR rubber. Resistant to oils with up to 55% aromatic content.

Reinforcement:

4 layers synthetic textile cord and steel spiral with high tensile strength.

Outside:

Black CR - Oil, weather, wear and ozone resistant.

Description:

Powerful bulk loading hose for oil installations and ships, where there are requirements for high wear and tensile strength. Suitable for both liquids and solids.

#											
Part No.	ID mm	"	OD mm	WT mm	WT kg/m	WP bar	BP bar	T Temp °C	V bar	BR mm	L m
22613-075	76	3"	92	8	3.35	20	60	-30 / +93	0.9	450	61
22613-100	102	4"	119	8.5	4.75	20	60	-30 / +93	0.9	620	61
22613-125	127	5"	148	10.5	7.09	20	60	-30 / +93	0.9	760	61
22613-150	152	6"	173	10.5	8.54	20	60	-30 / +93	0.9	920	61
22613-200	203	8"	233	15	10.15	20	60	-30 / +93	0.9	1230	30.5
22613-250	254	10"	293	19.5	14.50	20	60	-30 / +93	0.8	2540	30.5

At high temperatures the working pressure is reduced. Constant high pressure and temperature reduces the tube life span.



MUD AND BULK LOADING HOSE "SOFTWALL" 39/40 BAR

CONSTRUCTION:

Inside:

B 3380. Oil and wear resistant.

Reinforcement:

4-8 layers polyester cord with high tensile strength.

Outside:

Chemivic - Oil, weather and wear resistant. Inlaid grounding slit.

Description:

Powerful bulk loading hose for oil installations and ships, where there are requirements for extra-high pump pressure. Specially developed for pumping of liquid mud.

#											
Part No.	ID mm	"	OD mm	WT mm	WT kg/m	WP bar	BP bar	T Temp °C	V bar	BR mm	L m
21615-076	76,2	3"	98	10.9	3.6	40	160	-30 / +70	-	457	61
21615-100	102	4"	128	13	7.6	39	156	-30 / +70	-	612	61
21615-125	127	5"	153	13	9.8	39	156	-30 / +70	-	762	61



MUD AND BULK LOADING HOSE "HARDWALL" 40 / 30 BAR

CONSTRUCTION:

Inside:

Nitrile. Resistant to oils with up to 40% aromatic content.

Reinforcement:

4 layers synthetic textile cord with high tensile strength.

Outside:

Chemivic - Oil, weather and wear resistant.

Description:

Powerful bulk loading hose for oil installations and ships, where there are requirements for extra-high pump pressure. Specially developed for pumping of liquid mud. Suitable for crude oil, erosive materials, glycols and methanol / water mixtures.

#											
Part No.	ID mm	"	OD mm	WT mm	WT kg/m	WP bar	BP bar	T Temp °C	V bar	BR mm	L m
22614-100	102	4"	129.9	14.0	9.5	40	170	-20 / +93	0.8	800	61
22614-125	127	5"	160.0	16.5	12.3	40	120	-20 / +93	0.8	1020	30
22614-150	152	6"	184.0	16	13.5	40	120	-20 / +93	0.8	1250	30
22614-200	203	8"	242.0	19.5	23	30	90	-20 / +93	0.8	1800	20

At high temperatures the working pressure is reduced. Constant high pressure and temperature reduces the tube life span.



TANK AND BULK LOADING HOSE “HEAVY DUTY SOFTWALL” 9 TONS / 27 BAR

CONSTRUCTION:

Inside:

Black NBR rubber. Resistant to oils with up to 55% aromatic content.

Reinforcement:

4 layers synthetic textile cord with high tensile strength. Max 4% prolongation at 24 bar.

Outside:

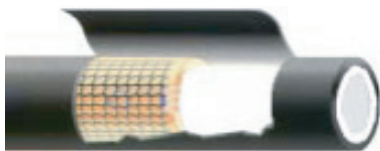
Black Chemivac - Oil, weather, wear and ozone resistant. Inlaid grounding slit.

Description:

Powerful bulk loading hose with 9 tons of tension for oil installations and ships, where there are requirements for extremely high wear and tensile strength. Suitable for both liquids and solids. Outer rubber is 3.5 x more durable than regular rubber.

#											
Part No.	ID mm	“	OD mm	WT mm	WT kg/m	WP bar	BP bar	T Temp °C	V bar	BR mm	L m
21611-075	76	3”	92	8	2.85	27	81	-30 / +93	-	600	61/122
21611-100	102	4”	117	7.5	3.99	27	81	-30 / +93	-	820	61/122
21611-125	127	5”	145	9	4.99	27	81	-30 / +93	-	1020	61/122
21611-150	152	6”	172	10	5.20	27	81	-30 / +93	-	1220	61/122
21611-200	203	8”	227	12	9.40	27	81	-30 / +93	-	1620	30.5
21611-250	254	10”	285	15.5	23.6	27	81	-30 / +93	-	2040	30.5

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UNIVERSAL HOSE “TECHNOBEL”

CONSTRUCTION:

Inside:

White polyester TPE

Reinforcement:

Polyester braid.

Outside:

Black PVC.

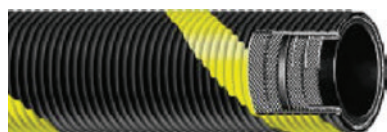
Description:

Universal hose for air, water, varnish, paint, oil, chemicals etc.

Inner tube is of food industry quality. The tube is UV and ozone resistant on the outside.

#											
Part No.	ID mm	“	OD mm	WT mm	WT kg/m	WP bar	BP bar	T Temp °C	V bar	BR mm	L m
21088-006	6	1/4”	11	-	0.09	20	60	-15 / +60	-	42	50
21088-008	8	5/16”	14	-	0.13	20	60	-15 / +60	-	56	50
21088-010	10	3/8”	16	-	0.16	20	60	-15 / +60	-	70	50
21088-013	12.7	1/2”	19.5	-	0.22	20	60	-15 / +60	-	90	50
21088-016	16	5/8”	23.5	-	0.30	20	60	-15 / +60	-	112	50
21088-019	19	3/4”	27.5	-	0.40	20	60	-15 / +60	-	133	50
21088-025	25	1”	34.5	-	0.56	20	60	-15 / +60	-	175	50
21088-038	38	1.1/2”	50.5	-	1.12	13	39	-15 / +60	-	266	50
21088-050	50	2”	64	-	1.50	10	30	-15 / +60	-	350	50

At high temperatures the working pressure is reduced. Constant high pressure and temperature reduces the tube life span.



MARINE EXHAUST ISO 13363 WET EXHAUST HOSE LIGHT SUCTION HOSE OIL/FUEL 3 BAR

CONSTRUCTION:

Inside:

Black NBR rubber.

Reinforcement:

Polyester braid and 2 steel spirals.

Outside:

Black CR rubber.

Description:

Special hose for water-cooled exhaust for boats and machinery. Max exhaust temperature 580°C
Can also be used for oil, gasoline, diesel, etc. with an aromatic content up to 50%
RINA Certificate. No. DIP/093/05XT, CE marked

#	ID	OD	WT	WT	WP	BP	T	V	BR	L
Part No.	mm	mm	mm	kg/m	bar	bar	Temp °C	bar	mm	m
22600-025	25	34	4.0	0.5	3		-25 / +120	0.8	100	40/60
22600-032	32	40	4.0	0.65	3	34	-25 / +120	0.8	200	40/60
22600-040	40	48	4.0	0.74	3	25	-25 / +120	0.8	260	40/60
22600-045	45	53	4.0	0.88	3	22	-25 / +120	0.8	285	40/60
22600-051	51	60	4.5	0.99	3	19	-25 / +120	0.8	305	40/60
22600-053	53	62	4.5	1.07	3	18	-25 / +120	0.8	310	40/60
22600-057	57	66	4.5	1.16	3	18	-25 / +120	0.8	325	40/60
22600-063	63	72	4.5	1.25	3	17	-25 / +120	0.8	355	40/60
22600-076	76	85	4.5	1.75	3	15	-25 / +120	0.8	455	40/60
22600-090	90	100	5.0	2.13	3	15	-25 / +120	0.8	535	40/60
22600-100	102	113	5.5	2.62	3	13	-25 / +120	0.8	610	40/60
22600-125	127	138	5.5	3.82	3	11	-25 / +120	0.8	760	40/60



TANK CLEANING HOSE "BUTTERWORTH" 24 BAR

CONSTRUCTION:

Inside:

Black EPDM rubber.

Reinforcement:

Textile braid with high tensile strength.

Outside:

Black EPDM rubber.

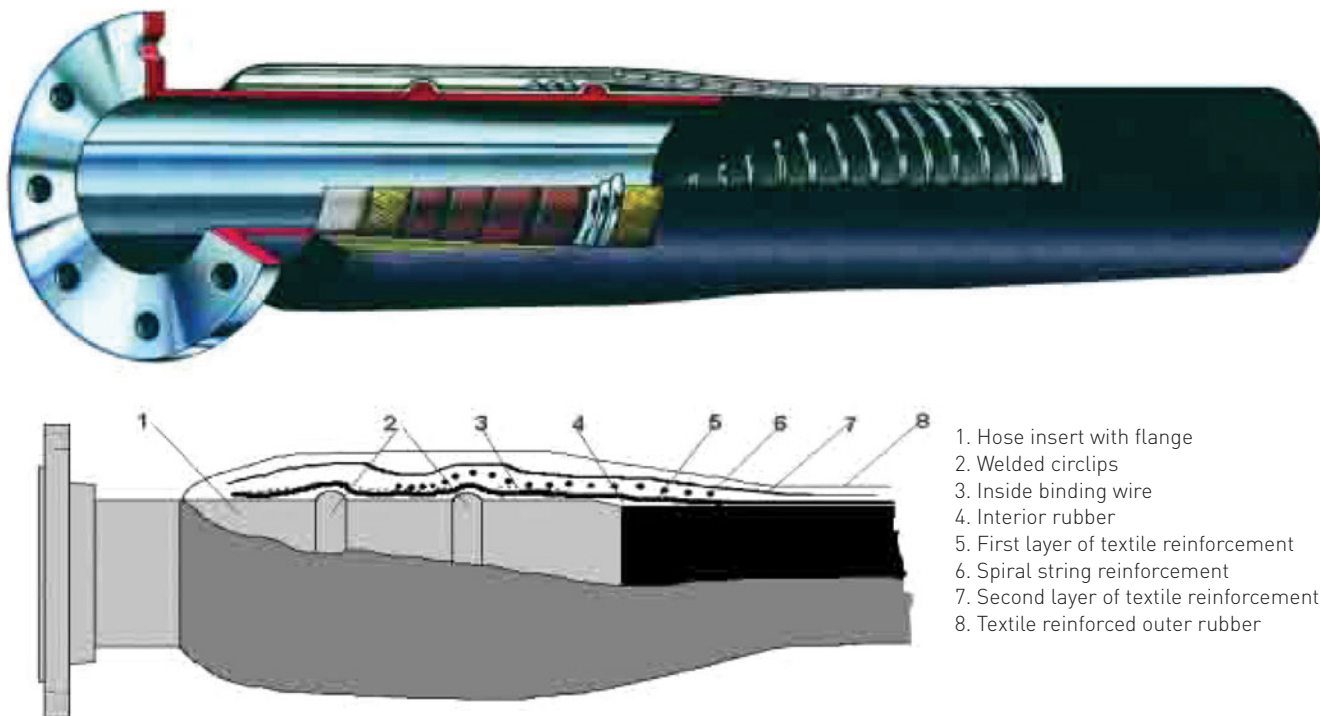
Description:

Tank cleaning hose. Oil, sea water and chemical resistant.
Four layers braided reinforcement for a minimum prolongation under pressure.
Orange stripes every 1m for depth indication.
2 stainless steel wires for electrical conductivity.

#	ID	OD	WT	WT	WP	BP	T	V	BR	L
Part No.	mm	mm	mm	kg/m	bar	bar	Temp °C	bar	mm	m
21658-038	38	54	8	1.24	24	80	-30 / +98	-	230	30/60
21658-050	51	68	8.5	1.84	24	80	-30 / +98	-	300	30/60

At high temperatures the working pressure is reduced. Constant high pressure and temperature reduces the tube life span.

BULK LOADING HOSE "DOCK HOSE"



1. Hose insert with flange
2. Welded circlips
3. Inside binding wire
4. Interior rubber
5. First layer of textile reinforcement
6. Spiral string reinforcement
7. Second layer of textile reinforcement
8. Textile reinforced outer rubber

CONSTRUCTION:

Inside:

Black Chemigum (Nitrile) rubber.

Reinforcement:

Several layers of textile braid and several spirals.

Outside:

Black Wingprene (Neopren) rubber.

Description:

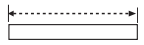
Special hose for bulk loading of petroleum products between ship and quay for all types of circumstances. Inner tube is resistant to hydrocarbons with up to 55% aromatic content.

Produced according to BS EN 1765: 1998 (formerly BS 1435)

Produced according to measurements and specifications from the customer.

Available with Nitrile or Viton inside.

Available with all types of flanges. The hoses are built to order.

#											
Part No.	mm	"	OD mm	WT mm	WT kg/m	WP bar	BP bar	Temp °C	V bar	BR mm	L m
22607-100	102	4"	139	18.5	10.1	10	40	-20 / +82	-	0.61	Made to order
22607-150	153	6"	194	20.5	18.1	10	40	-20 / +82	-	0.92	Made to order
22607-200	204	8"	149	22.5	26.0	10	40	-20 / +82	-	1.22	Made to order
22607-250	254	10"	301	23.5	35.2	10	40	-20 / +82	-	1.52	Made to order
22607-300	306	12"	354	24	39.9	10	40	-20 / +82	-	1.83	Made to order
22608-100	102	4"	139	18.5	10.1	15	60	-20 / +82	-	0.61	Made to order
22608-150	153	6"	194	20.5	18.1	15	60	-20 / +82	-	0.92	Made to order
22608-200	204	8"	149	22.5	26.0	15	60	-20 / +82	-	1.22	Made to order
22608-250	254	10"	301	23.5	35.2	15	60	-20 / +82	-	1.52	Made to order
22608-300	306	12"	354	24	39.9	15	60	-20 / +82	-	1.83	Made to order

At high temperatures the working pressure is reduced. Constant high pressure and temperature reduces the tube life span.



RIG SUPPLY POTABLE WATER SW 81451 - 20 BAR

CONSTRUCTION:

Tube: White FDA compliant NR. Thickness approx 2.4 mm.
Spirals: None
Cover: Orange EPDM. Thickness approx 1.8 mm.
EL Properties: 1 a/s sire.
Lengths: 61 meters.
Description: High load potable water hose soft wall. 4 ply high tensile textile cord with additional anti static wire. Load at break 8 tons.
Properties: Suitable for potable water, dry food material.

# Part No	ID* mm	OD* mm	WT mm	WP** MPa	BP** MPa	BR mm	WT kg/m
81451-75	76	92	approx 2.4	2	8	Suitable for reels with core diam. >1200	2.85
81451-100	102	118	approx 2.4	2	8	Suitable for reels with core diam. >1200	3.45

* Tolerances ISO 1307

** Values at 23°C



RIG SUPPLY POTABLE WATER SW 81461 - 10 BAR

CONSTRUCTION:

Tube: White NR. FDA CRF 177:2600
Cover: Orange SBR/EPDM.
Service temperature: -30°C - +70°C.
Lengths tolerances: +/- 5%.
Lengths: 40 meters.
Description: Wrapped mandrel built tube, produced on stainless steel mandrel. 2 polyester cord plies. Fabric patterned cover.
Application: Supply of non-oily edible foods, fresh water and potable water from supply vessel to offshore installation in pre-treated condition Hose shall be flushed and cleaned prior to use following good manufacturing procedures.

# Part No	ID* mm	OD* mm	WT mm	WP** bar	BP** bar	BR mm	WT kg/m
81461-038	38	52		20	60	10 x ID at 3 bar for all sizes	2.2
81461-075	76	92		10	30	10 x ID at 3 bar for all sizes	3.4
81461-100	102	118		10	30	10 x ID at 3 bar for all sizes	3.8

* Manufacturing tolerances ISO R 1307

** Values at 23°C