Continental
The Future in Motion

Safline™ Dock Hose

For onshore installations

DUNLOP OIL & MARINE

Dunlop Oil & Marine

Dunlop Oil & Marine, part of Continental AG, has an unrivalled track record in the supply of oil and marine hoses to the global oil and gas industry.

Our ability to recognise and respond to changing market, operational and customer requirements has led to us being responsible for most of the major innovations and developments in hose technology throughout our 60 year history. Dunlop Oil & Marine became the first hose manufacturer in the world to qualify its entire offshore product range to the new GMPHOM 2009 industry standard.

From supplying a complete dock hose range to developing the world's first single point mooring and double carcass hoses, Dunlop Oil & Marine are proud to lead the way in both onshore and offshore hose technology.

Our full product range includes:

- GMPHOM 2009 hoses
- API 17K offshore offloading hoses
- High pressure hoses
- Industrial & hydraulic hose assemblies
- Ship-to-Ship hoses
- LPG offshore hoses
- LNG hoses
- Roof tank drain hoses
- Oxygen hoses
- Hose management services
- BS EN1765: 2016 dock hoses

Safline™ Dock hose range includes:

- Suction and discharge hoses with built in fittings for crude and refined oil products and petrochemicals
- Long length delivery, suction and discharge hoses for use with swaged or clamped couplings
- LPG dock transfer hoses
- Suction and discharge hoses for product transfers where high chemical resistance is required
- Bitumen and asphalt hoses

Safline™ Dock Hose Product Range

Product	Standard	Max WP (bar)	End fitting	Page
Dunlop Safline™ Type 231/233 Lightweight Discharge Hose	EN 1765:2016	10/15	Built-in	5
Dunlop Safline™ Type 282/283 Standard Duty Suctioin & Discharge Hose	EN 1765:2016	10/15	Built-in	6
Dunlop Safline™ Type 284/286/288 Heavy Duty Suction & Discharge Hose	EN 1765:2016	10/14/15	Built-in	7
Dunlop Safline™ Type 252 High Pressure Suction & Discharge Hose	Exceeding EN 1765:2016	21	Built-in	8
Dunlop Safline™ Type 255 High Pressure Softwall Discharge Hose	Exceeding EN 1765:2016	21	Built-in	10
Dunlop Safline™ Type 263/264 Rough Bore Suction & Discharge Hose	EN 1765:2016	15/21	Built-in	11
Dunlop Lifeline Type 241 Long Length Swage Oil Delivery Hose	Lifeline (Dunlop Standard)	17	Swaged/Clamped	13
Dunlop Lifeline Type 243 Long Length Swage Oil Suction & Delivery Hose	Lifeline (Dunlop Standard)	17	Swaged/Clamped	14
Dunlop LPG Safline™ Type 321 LPG Dock Suction & Discharge Hose	EN 1762	25	Built-in	15
Dunlop LPG Safline™ Type 321M LPG Submarine Suction & Discharge Hose	BS 4089	25	Built-in	16
Dunlop Safline™ Type 288M Heavy Duty Submarine Suction & Discharge Hose	BS 1435	15	Built-in	18
Dunlop Safline™ Type 341X XLPE Chemical Suction & Discharge Hose	Dunlop Internal Standard	14	Built-in	19
Dunlop Safline™ Type 383B/383V Petrochemical Dock Hose	Generally to EN 1765:2016	15	Built-in	20
Dunlop Safline™ Type 352V High Pressure Suction & Discharge Hose	Exceeding EN 1765:2016	21	Built-in	22
Dunlop Safline™ Type 388V High Pressure Suction & Discharge Hose	Generally to EN 1765:2016	15	Built-in	23
Dunlop Safline™ Type 332 Bitumen, Hot Tar & Asphalt Hose (+175°C)	EN 13482	15	Built-in	25

Dunlop Safline™ Type 231/233
Lightweight Discharge Hose

Fully complying with BS EN 1765: 2016 Type L10/L15

Application

Lightweight, flexible hoses offering easy handling. Generally used at dockside and jetty locations where the working conditions call for a lightweight, flexible hose.

Working/burst pressure (L10)	**10/40 bar (Dunlop Safline™ Type 231)**
(L15)	**15/60 bar (Dunlop Safline™ Type 233)**
Operating Temperature	-20°C to +82°C
Electrical Continuity	Grade M: Electrically bonded or electrically discontinuous as required
Maximum lengths	40m (up to 8" internal diameter) 12m (above 8" internal diameter)

Construction

Lining	Synthetic rubber compound for petroleum products with an aromatic content up to 60%
Main reinforcement	Multiple plies of high tenacity polyester cord designed for a combination of high strength and resistance to fatigue. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers
Holding ply	Textile reinforcement to increase adhesion between hose body and cover
Cover	Weathering and abrasion resistant rubber compound
Fittings	Built-in steel nipples with flanges to suit customer requirements

Technical Design Data

Internal diameter		Outer diameter		Body weight		End weight	MBR
	231 & 233	231	233	231	233	231 & 233	231 & 233
in	mm	mm	mm	kg/m	kg/m	kg/hose	m
2	51	71	71	2.3	2.3	11	0.3
3	76	96	96	3.3	3.3	18	0.46
4	102	126	126	5.4	5.4	29	0.6
6	152	177	177	7.8	7.8	46	0.9
8	203	228	233	10.2	12.4	67	1.2
10	254	279	283	12.6	15.3	96	1.5
12	305	339	339	21.3	21.3	122	1.8

Hoses manufactured in the United Kingdom will be CE branded hoses (showing full compliance with European Pressure Equipment Directive PED 97/23/EC)

Dunlop Safline™ Type 282/283

Standard Duty Suction and Discharge Hose

Fully complying with BS EN 1765: 2016 Type S10/S15

Application

Lightweight, flexible hoses offering easy handling. Generally used at dockside and jetty locations.

Similar hose type also available with other lining for transfer of different chemicals. See Dunlop Safline™ Type 383V/B for more information on page 20.

Working/burst pressure (S10)	**10/40 bar (Dunlop Safline™ Type 282)**
(S15)	**15/60 bar (Dunlop Safline™ Type 283)**
Operating Temperature	-20°C to +82°C
Electrical Continuity	Grade M: Electrically bonded or electrically discontinuous as required
Maximum lengths	40m (up to 8" internal diameter) 12m (above 8" internal diameter)

Construction

Lining	Synthetic rubber compound for petroleum products with an aromatic content up to 60%
Main reinforcement	Multiple plies of high tenacity polyester cord designed for a combination of high strength and resistance to fatigue. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers
Embed wire	Helical steel wire to resist collapse and crush loads
Holding ply	Textile reinforcement to increase adhesion between hose body and cover
Cover	Weathering and abrasion resistant rubber compound
Fittings	Built-in steel nipples with flanges to suit customer requirements

Technical Design Data

Internal diameter		Outer diameter		Body weight		End weight	MBR
	282 & 283	282	283	282	283	282 & 283	282 & 283
in	mm	mm	mm	kg/m	kg/m	kg/hose	m
2	51	79	79	3.9	3.9	11	0.3
3	76	105	105	5.8	5.8	18	0.46
4	102	132	132	8.1	8.1	29	0.6
6	152	184	189	13.1	14.9	46	0.9
8	203	241	245	20.8	23.1	67	1.2
10	254	295	297	29.2	30.2	96	1.5
12	305	348	352	35.9	39.1	122	1.8
16	387	440	454	53.7	76.8	150	2.3

Hoses manufactured in the United Kingdom will be CE branded hoses (showing full compliance with European Pressure Equipment Directive PED 97/23/EC)

Dunlop Safline™ Type 284/286/288

Heavy Duty Suction and Discharge Hose

Fully complying with BS EN 1765: 2016 Type S10/S15

Application

Generally used for medium to heavy duty service at dockside and jetty locations where the working conditions demand a robust construction to accommodate rougher handling, higher working pressures and flow rates.

Dunlop Safline™ Type 288 available with other linings for transfer of different chemicals. See Dunlop Safline™ Type 388V for more information on page 23.

Working/burst pressure (S10)	**10/40 bar (Dunlop Safline™ Type 284)** *** 14/56 bar (Dunlop Safline™ Type 286)**
(S15)	**15/60 bar (Dunlop Safline™ Type 288)**
Operating Temperature	-20°C to +82°C
Electrical Continuity	Grade M: Electrically bonded or electrically discontinuous as required
Maximum lengths	40m (up to 8" internal diameter) 12m (above 8" internal diameter)

* Additional to EN 1765 standard

Construction

Lining	Synthetic rubber compound for petroleum products with an aromatic content up to 60%
Main reinforcement	Multiple plies of high tenacity rayon cord designed for a combination of high strength and resistance to fatigue. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers
Embed wire	Two helical steel wires to resist collapse and crush loads
Holding ply	Textile reinforcement to increase adhesion between hose body and cover
Cover	Weathering and abrasion resistant rubber compound
Fittings	Built-in steel nipples with flanges to suit customer requirements

Technical Design Data

Internal diameter		Outer diameter			Body weight			End wgt	MBR	Max. working tensile load		
	All	284	286	288	284	286	288	All	All	284	286	288
in	mm	mm	mm	mm	kg/m	kg/m	kg/m	kg/hose	m	tonnes	tonnes	tonnes
2	51	85	85	85	5.1	5.1	5.1	11	0.3	1.6	1.7	1.7
2.5	64	98	98	98	6.1	6.1	6.1	14	0.38	1.6	1.5	1.5
3	76	111	111	111	7.0	7.3	7.3	18	0.46	1.5	1.8	1.8
4	102	139	137	137	9.4	9.4	9.7	29	0.6	2.9	2.0	2.0
6	152	192	193	198	16.6	17.8	19.8	46	0.9	3.7	5.2	5.0
8	203	249	251	251	24.3	25.8	25.8	67	1.2	6.2	5.8	5.8
10	254	303	303	303	34.5	35.9	35.9	96	1.5	6.3	8.0	8.0
12	305	362	362	362	49.8	49.8	49.8	122	1.8	7.3	7.8	7.8

Hoses manufactured in the United Kingdom will be CE branded hoses (showing full compliance with European Pressure Equipment Directive PED 97/23/EC)

Dunlop Safline™ Type 252

High Pressure Suction and Discharge Hose

Exceeding BS EN 1765: 2016

Application

Recommended for service on docks, jetties, tankers, etc., where the working conditions call for strength and robustness combined with flexibility and high pressure requirements.

Dunlop Safline™ Type 252 hoses are prototyped to the requirements of BS EN 1765: 2016, but for higher working pressures than specified in BS EN 1765.

Dunlop Safline™ Type 252 available with other linings for transfer of different chemicals. See Dunlop Safline™ Type 352V for more information on page 22.

Working/burst pressure	**21/84 bar**
Operating Temperature	-20°C to +82°C
Electrical Continuity	Grade M: Electrically bonded or electrically discontinuous as required
Maximum lengths	40m (up to 8" internal diameter) 12m (above 8" internal diameter)

Construction

Lining	Synthetic rubber compound for petroleum products with an aromatic content up to 60%
Main reinforcement	Multiple plies of wire cord designed for a combination of high strength and resistance to fatigue. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers
Embed wire	Helical steel wire to resist collapse and crush loads
Holding ply	Textile reinforcement to increase adhesion between hose body and cover
Cover	Weathering and abrasion resistant rubber compound
Fittings	Built-in steel nipples with flanges or couplings to suit customer requirements

Technical Design Data

Internal diameter		Outer diameter	Body weight	End weight	MBR	Max working tensile load
in	mm	mm	kg/m	kg/hose	m	tonnes
3	76	112	9.5	18	0.46	1.2
4	102	137	12.1	29	0.6	2.0
6	152	192	19.3	46	0.9	3.2
8	203	244	27.5	67	1.2	3.9
10	254	306	44.5	96	1.5	4.7
12	305	357	57.3	122	1.8	5.3

Hoses manufactured in the United Kingdom will be CE branded hoses (showing full compliance with European Pressure Equipment Directive PED 97/23/EC)

Dunlop Safline™ Type 255

High Pressure Softwall Discharge Hose

Exceeding BS EN 1765: 2016

Application

High pressure smooth bore oil discharge hoses are recommended for service on docks, jetties, tankers, etc. Generally used on hose handling rigs, rather than being manually handled.

Dunlop Safline™ Type 255 hoses are exceeding the requirements of BS EN 1765: 2016, which has replaced BS 1435: Part 1: 1987, however provides the additional protection of 10:1 safety factor.

Working/burst pressure	**21/210 bar**
Operating Temperature	-20°C to +82°C
Electrical Continuity	Grade M: Electrically bonded or electrically discontinuous as required
Maximum lengths	40m (up to 8" internal diameter) 12m (above 8" internal diameter)

Construction

Lining	Synthetic rubber compound for petroleum products with an aromatic content up to 60%
Main reinforcement	Multiple plies of wire cord designed for a combination of high strength and resistance to fatigue. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers
Holding ply	Textile reinforcement to increase adhesion between hose body and cover
Cover	Weathering and abrasion resistant rubber compound
Fittings	Built-in steel nipples with flanges or couplings to suit customer requirements

Technical Design Data

Internal diameter		Outer diameter	Body weight	End weight	MBR	Max working tensile load
in	mm	mm	kg/m	kg/hose	m	tonnes
3	76	114	11	18	0.46	1.2
4	102	134	14	29	0.6	2.0
6	152	190	19	46	0.9	3.2
8	203	253	35	67	1.2	3.9
10	254	304	44	96	1.5	4.7
12	305	365	66	122	1.8	5.3

Hoses manufactured in the United Kingdom will be CE branded hoses (showing full compliance with European Pressure Equipment Directive PED 97/23/EC)

Dunlop Safline™ Type 263/264

Rough Bore Suction and Discharge Hose

Fully complying with BS EN 1765: 2016 Type R15

Application

Generally used for medium to heavy duty service at dockside and jetty locations where the working conditions demand a robust construction to accommodate rougher handling, higher working pressures and flow rates.

Dunlop Safline™ Type 264 hoses are prototyped to the requirements of BS EN1765: 2016 but for higher working pressures than specified in BS EN1765.

Working/burst pressure (R15)	**15/60 bar (Dunlop Safline™ Type 263)**
	21/84 bar (Dunlop Safline™ Type 264)
Operating Temperature	-20°C to +82°C
Electrical Continuity	Electrically continuous or discontinuous as required
Maximum lengths	15m

Construction

Lining	An oil resistant nitrile based rubber compound for petroleum products with an aromatic content up to 50%, reinforced with a nylon breaker fabric that supports the lining between the turns of the wire
Main reinforcement	Multiple plies of high tenacity rayon cord designed for a combination of high strength and resistance to fatigue. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers
Embed wire	A high tensile steel wire helix is included to prevent collapse and aid crush resistance. Surrounded by filler rubber to prevent abrasion against the adjacent cord layers
Holding ply	Nylon breaker plies to hold in place the helical steel wire and ensure greater adhesion between cover and body components
Cover	Weathering and abrasion resistant rubber compound
Fittings	Built-in steel nipples with flanges to suit customer requirements
Internal wire	To aid strength and resist delamination, a wire is semi-embedded into the lining to provide a relatively smooth surface

Technical Design Data

Internal diameter		Outer diameter		Body weight		End weight	MBR	Max working tensile load	
	Both	263	264	263	264	Both	Both	263	264
in	mm	mm	mm	kg/m	kg/m	kg/hose	m	tonnes	tonnes
3	76	116	125	6.0	9.9	35	0.46	3.1	3.8
4	102	144	150	8.7	12.4	48	0.6	3.9	5.9
6	152	201	204	14.6	19.3	59	0.9	11.5	6.1
8	203	261	267	23.6	33.7	72	1.2	14.8	19.7
10	254	312	323	28.5	44.4	109	1.5	17.5	16.6
12	305	358	375	30.1	54.1	112	1.8	15.9	15.1

Hoses manufactured in the United Kingdom will be CE branded hoses (showing full compliance with European Pressure Equipment Directive PED 97/23/EC)


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Dunlop Lifeline Type 241
Long Length Swage Oil Delivery Hose

Application

Lightweight, flexible long length soft wall and discharge hose for dockside and jetty bunkering. Generally manufactured in long lengths that are then cut to the required length before the fittings are attached.

Working/burst pressure	**17/51 bar**
Operating Temperature	-20°C to +82°C
Electrical Continuity	Electrically continuous or discontinuous as required
Maximum lengths	40m (up to 8" internal diameter) 12m (above 8" internal diameter)

Construction

Lining	Synthetic rubber compound for petroleum products with an aromatic content up to 60%
Main reinforcement	Multiple plies of high tenacity rayon cord designed for a combination of high strength and resistance to fatigue. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers
Cover	Weathering and abrasion resistant rubber compound
Fittings	Swaged-in or Clamp-on fittings with flanges or couplings to suit customer requirements

Technical Design Data

Internal diameter		Outer diameter	Body weight	End weight	MBR
in	mm	mm	kg/m	kg/hose	m
2	51	71	2.3	8	0.3
2.5	64	83	2.8	13	0.38
3	76	96	3.3	15	0.46
4	102	121	4.2	23	0.6
5	127	152	6.6	28	0.76
6	152	177	7.8	37	0.9
8	203	228	10.2	58	1.2
10	254	291	19.2	100	1.5

Hoses manufactured in the United Kingdom will be CE branded hoses (showing full compliance with European Pressure Equipment Directive PED 97/23/EC)

Dunlop Lifeline Type 243
Long Length Swage Oil Suction & Delivery Hose

Application

Lightweight, flexible long length suction and discharge hoses offering easy handling. Used at dockside and jetty locations. Generally manufactured in long lengths that are then cut to the required length before the fittings are attached.

Working/burst pressure	**17/51 bar**
Operating Temperature	-20°C to +82°C
Electrical Continuity	Electrically continuous or discontinuous as required
Maximum lengths	40m (up to 8" internal diameter) 12m (above 8" internal diameter)

Construction

Lining	Synthetic rubber compound for petroleum products with an aromatic content up to 60%
Main reinforcement	Multiple plies of high tenacity rayon cord designed for a combination of high strength and resistance to fatigue. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers
Embed wire	Helical steel wire to resist collapse and cush loads
Holding ply	Textile reinforcement to increase adhesion between hose body and cover
Cover	Weathering and abrasion resistant rubber compound
Fittings	Swaged-in or Clamp-on fittings with flanges or couplings to suit customer requirements

Technical Design Data

Internal diameter		Outer diameter	Body weight	End weight	MBR
in	mm	mm	kg/m	kg/hose	m
2	51	78	3.8	8	0.3
2.5	64	88	4.2	13	0.38
3	76	103	5.4	15	0.46
4	102	129	7.3	23	0.6
5	127	155	9.7	28	0.76
6	152	182	12.5	37	0.9
8	203	243	21.6	58	1.2
10	254	294	30	100	1.5

Hoses manufactured in the United Kingdom will be CE branded hoses (showing full compliance with European Pressure Equipment Directive PED 97/23/EC)

Dunlop Safline™ Type 321

LPG Dock Suction and Discharge Hose

Fully complying with BS EN 1762: 2017 Type SD

Application

Designed for long life and durability in dockside service transporting LPG at temperatures down to -30°C.
Also available in variant to meet standard BS 4089 Type 3 (-20°C minimum operating temperature).

Working/burst pressure	**25/100 bar**
Operating Temperature	-30°C to +70°C
Electrical Continuity	Electrically continuous or discontinuous as required
Maximum lengths	40m (up to 8" internal diameter) 12m (above 8" internal diameter)

Construction

Lining	Synthetic rubber compound for LPG service
Bleeder cords	All Polymer products allow gas to permeate through them. This hose includes bleeder cords so that any trapped gas can safely vent out of the hose.
Main reinforcement	Multiple plies of high tenacity rayon cord designed for a combination of high strength and resistance to fatigue. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers
Embed wire	Helical stainless steel wire to resist collapse and crush loads
Holding ply	Textile reinforcement to increase adhesion between hose body and cover
Cover	Weathering and abrasion resistant rubber compound
Fittings	Built-in low temperature steel nipples with flanges to suit customer requirements

Technical Design Data

Internal diameter		Outer diameter	Body weight	End weight	MBR	Max working tensile load
in	mm	mm	kg/m	kg/hose	m	tonnes
2	51	88	5.8	11	0.3	1.8
3	76	117	9.1	18	0.46	3.2
4	102	146	13.6	29	0.6	5.3
6	152	208	26.2	46	0.9	9.9
8	203	263	36.2	67	1.2	18.1
10	254	320	50.8	96	1.5	25.4
12	305	376	67.5	122	1.8	27.3

Hoses manufactured in the United Kingdom will be CE branded hoses (showing full compliance with European Pressure Equipment Directive PED 97/23/EC)

Dunlop Safline™ Type 321M

LPG Submarine Suction and Discharge Hose

In accordance with BS 4089: 1989 Type 3

Application

Designed for long life and durability in marine service transporting LPG at temperatures down to -20°C. The cover material has high abrasion resistance and is designed for prolonged seawater submergence.

Also available in variant to meet standard BS EN 1762: 2017 Type SD (-30°C minimum operating temperature). Rough Bore design Dunlop Type 324 also available.

Working/burst pressure	**25/100 bar**
Operating Temperature	-20°C to +45°C
Electrical Continuity	Electrically continuous or discontinuous as required
Maximum lengths	40m (up to 8" internal diameter) 12m (above 8" internal diameter)

Construction

Lining	Synthetic rubber compound for LPG service
Bleeder cords	All Polymer products allow gas to permeate through them. This hose includes bleeder cords so that any trapped gas can safely vent out of the hose ends
Main reinforcement	Multiple plies of high tenacity rayon cord designed for a combination of high strength and resistance to fatigue. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers. Construction includes specially compounded layers when required to ensure negative buoyancy
Embed wire	One or more helical steel wires to resist collapse and crush loads
Holding ply	Textile reinforcement to increase adhesion between hose body and cover
Cover	Extra thick weathering and abrasion resistant rubber compound for marine service
Fittings	Built-in steel nipples with flanges to suit customer requirements

Technical Design Data

Internal diameter		Outer diameter	Body weight	End weight	MBR	Max working tensile load
in	mm	mm	kg/m	kg/hose	m	tonnes
2	51	101	8.6	11	0.3	1.6
3	76	131	14.5	18	0.46	3.0
4	102	160	21.6	29	0.6	4.7
6	152	221	39.3	46	0.9	8.6
8	203	290	70	67	1.2	16.7
10	254	344	95.9	96	1.5	23.1
12	305	412	137.6	122	1.8	20.2
14	356	471	160	136	2.1	45.3

Hoses manufactured in the United Kingdom will be CE branded hoses (showing full compliance with European Pressure Equipment Directive PED 97/23/EC)

Dunlop Safline™ Type 288M

Heavy Duty Submarine Suction and Discharge Hose

In accordance with with BS 1435: 1975 Type M15

Application

Designed for submarine applications, for example at CBM terminals, with a robust construction for heavy duty service.
The cover material has a high abrasion resistance and is designed for prolonged seawater submergence.

Working/burst pressure	**15/75 bar**
Operating Temperature	-20°C to +82°C
Electrical Continuity	Electrically continuous or discontinuous as required
Maximum lengths	40m (up to 8" internal diameter) 12m (above 8" internal diameter)

Construction

Lining	Synthetic rubber compound for petroleum products with an aromatic content up to 60%
Main reinforcement	Multiple plies of high tenacity rayon cord designed for a combination of high strength and resistance to fatigue. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers
Embed wire	Two helical steel wires to resist collapse and crush loads
Holding ply	Textile reinforcement to increase adhesion between hose body and cover
Cover	Weathering and abrasion resistant rubber compound
Fittings	Built-in steel nipples with flanges to suit customer requirements

Technical Design Data

	Internal diameter	Outer diameter	Body weight	End weight	MBR	Max working tensile load
in	mm	mm	kg/m	kg/hose	m	tonnes
2	51	92	6.5	11	0.3	1.7
2.5	64	106	7.8	14	0.38	1.5
3	76	118	9.1	18	0.46	1.8
4	102	144	11.8	29	0.6	2.0
5	127	177	17.2	38	0.76	3.1
6	152	206	22.5	46	0.9	5.0
8	203	257	29.7	67	1.2	5.8
10	254	313	40.6	96	1.5	8.0
12	305	365	52.7	122	1.8	7.8

Hoses manufactured in the United Kingdom will be CE branded hoses (showing full compliance with European Pressure Equipment Directive PED 97/23/EC)

Dunlop Safline™ Type 341X
XLPE Chemical Suction & Discharge Hose

Application

Lightweight, flexible chemical suction and discharge hose with extremely high chemical resistance. The use of cross-linked polyethylene (XLPE) for the lining allows the hose to handle some 90% of all industrial chemicals.

Working/burst pressure	**14/56 bar**
Operating Temperature	-20°C to +60°C
Electrical Continuity	Electrically continuous or discontinuous as required
Maximum lengths	40m (up to 8" internal diameter)
	12m (above 8" internal diamter)

Construction

Lining	Main XLPE lining
Main reinforcement	Multiple plies of high tenacity rayon cord designed for a combination of high strength and resistance to fatigue. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers
Embed wire	Helical steel wire to resist collapse and cush loads
Holding ply	Textile reinforcement to increase adhesion between hose body and cover
Cover	Weathering and abrasion resistant rubber compound
Fittings	Swaged-on stems and ferrules with flanges to suit customer requirements

Technical Design Data

	Internal diameter	Outer diameter	Body weight	End weight	MBR	Max working tensile load
in	mm	mm	kg/m	kg/hose	m	tonnes
2	51	83	4.6	8	0.4	1.1
2.5	64	96	5.4	13	0.5	1.0
3	76	109	6.4	15	0.6	1.1
4	102	134	8.4	23	0.8	1.2
5	127	162	11.7	28	1.0	3.0
6	152	188	14.4	37	1.2	3.3
8	203	244	22.4	58	1.6	6.3
10	254	296	29.9	100	2.0	7.5
12	305	355	41.9	155	2.4	9.8

Hoses manufactured in the United Kingdom will be CE branded hoses (showing full compliance with European Pressure Equipment Directive PED 97/23/EC)

Dunlop Safline™ Type 383B/383V
PetroChemical Dock Hose

Generally complying with BS EN 1765: 2016 - Type S15

Lightweight, flexible hoses offering easy handling for transfering industrial chemicals. Generally used at dockside and jetty locations.

The lining options allow for transfer of different industrial chemicals.

Application

Working/burst pressure	**15/60 bar**
Operating Temperature	-20°C to +82°C (383B) -20°C to +100°C (383V)
Electrical Continuity	Grade M: Electrically bonded or electrically discontinuous as required
Maximum lengths	40m (up to 8" internal diameter) 12m (above 8" internal diameter)

Construction

Lining	**(383B)** Synthetic rubber compound (Chlorobutyl) suitable for industrial chemical applications **(383V)** Viton rubber compound for petroleum products with an aromatic content up to 100% and many industrial chemicals
Main reinforcement	Multiple plies of high tenacity rayon cord designed for a combination of high strength and resistance to fatigue. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers
Embed wire	Helical wire to resist collapse and crush loads
Holding ply	Textile reinforcement to increase adhesion between hose body and cover
Cover	Weathering and abrasion resistant rubber compound
Fittings	Built-in steel nipples with flanges to suit customer requirements

Technical Design Data

Internal diameter		Outer diameter		Body weight		End weight	MBR	Max working tensile load	
	All	383B	383V	383B	383V	All	All	383B	383V
in	mm	mm	mm	kg/m	kg/m	kg/hose	m	Tonnes	Tonnes
2	51	76	85	3.8	5.4	11	0.30	1.3	1.1
2.5	64	89	97	4.6	6.4	14	0.38	1.2	1.0
3	76	102	111	5.7	7.8	18	0.46	1.7	1.6
4	102	127	136	7.4	10.0	29	0.60	1.4	1.4
5	127	155	163	10.3	13.0	38	0.76	2.7	2.4
6	152	187	195	15.7	18.8	46	0.90	3.5	3.4
8	203	243	252	24.8	28.2	67	1.20	8.2	6.7
10	254	294	303	31.1	36.6	96	1.50	7.6	7.4
12	305	350	360	40.9	47.0	122	1.80	6.4	6.3

Dunlop Safline™ Type 352V

High Pressure Suction and Discharge Hose

Exceeding BS EN 1765: 2016 - Type S15

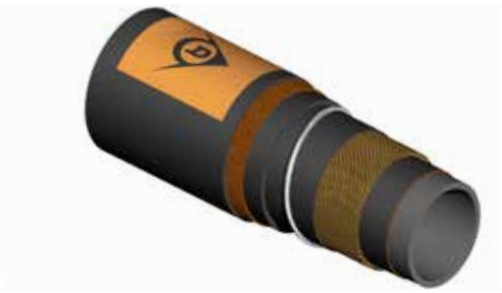
Application

Recommended for service on docks, jetties and tankers where the working conditions call for strength and robustness combined with flexibility. The Viton rubber compound offers resistance to 100% aromatics and many industrial chemicals. Generally used on hose handling rigs, rather than being manually handled.

Hose equivalent also available with butyl lining - Dunlop Safline™ Type 352B.

Working/burst pressure	**21/84 bar**
Operating Temperature	* -20°C to +150°C
Electrical Continuity	Grade M: Electrically bonded or electrically discontinuous as required
Maximum lengths	40m (up to 8" internal diameter) 12m (above 8" internal diameter)

* High temperature limit for non-continuous service only



Construction

Lining	Synthetic Viton rubber compound for petroleum products with an aromatic content up to 100%
Main reinforcement	Multiple plies of wire cord designed for a combination of high strength and resistance to fatigue. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers
Embed wire	Helical steel wire to resist collapse and crush loads
Holding ply	Textile reinforcement to increase adhesion between hose body and cover
Cover	Weathering and abrasion resistant rubber compound
Fittings	Built-in steel nipples with flanges or couplings to suit customer requirements

Technical Design Data

Internal diameter		Outer diameter	Body weight	End weight	MBR	Max working tensile load
in	mm	mm	kg/m	kg/hose	m	tonnes
3	51	119	12.1	18	0.46	1.4
4	102	145	15.3	29	0.6	1.9
6	152	199	23.9	46	0.9	3.8
8	203	252	33.3	67	1.2	3.8
10	254	313	51.8	96	1.5	4.7
12	304	364	65.9	122	1.8	5.3

Hoses manufactured in the United Kingdom will be CE branded hoses (showing full compliance with European Pressure Equipment Directive PED 97/23/EC)

Dunlop Safline™ Type 388V

High Pressure Suction and Discharge Hose

Generally complying with BS EN 1765: 2016 - Type S15

Application

Generally used for medium to heavy duty service on docks, jetties and tankers where the working conditions call for strength and robustness combined with flexibility. The Viton rubber compound offers resistance to 100% aromatics and many industrial chemicals. Generally used on hose handling rigs, rather than being manually handled.

Hose equivalent also available with butyl lining - Dunlop Safline™ Type 388B.

Working/burst pressure	**15/60 bar**
Operating Temperature	* -20°C to +150°C
Electrical Continuity	Grade M: Electrically bonded or electrically discontinuous as required
Maximum lengths	40m (up to 8" internal diameter) 12m (above 8" internal diameter)

* High temperature limit for non-continuous service only

Construction

Lining	Synthetic Viton rubber compound for petroleum products with an aromatic content up to 100%
Main reinforcement	Multiple plies of high tenacity rayon cord designed for a combination of high strength and resistance to fatigue. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers
Embed wire	Helical steel wire to resist collapse and crush loads
Holding ply	Textile reinforcement to increase adhesion between hose body and cover
Cover	Weathering and abrasion resistant rubber compound
Fittings	Built-in steel nipples with flanges or couplings to suit customer requirements

Technical Design Data

	Internal diameter	Outer diameter	Body weight	End weight	MBR	Max working tensile load
in	mm	mm	kg/m	kg/hose	m	tonnes
2	51	93	7.0	11	0.3	1.6
2.5	64	106	8.3	14	0.38	1.5
3	76	119	9.8	18	0.46	1.7
4	102	144	12.9	29	0.6	1.9
5	127	172	16.5	38	0.76	3.0
6	152	206	24.7	46	0.9	4.9
8	203	260	32.1	67	1.2	5.8
10	254	312	44.0	96	1.5	7.9
12	305	371	59.3	122	1.8	7.7

Hoses manufactured in the United Kingdom will be CE branded hoses (showing full compliance with European Pressure Equipment Directive PED 97/23/EC)

Dunlop Safline™ Type 332

Bitumen, Hot Tar and Asphalt Hose (+175°C)

Fully complying with BS EN 13482: 2013 Type 2 RB

Application

Rough bore bitumen hoses are generally used for heavy duty service at dockside and jetty locations where the working conditions demand a robust construction to accommodate rougher handling, high working pressures and flow rates.

Working/burst pressure	**15/90 bar**
Operating Temperature	+175°C
Electrical Continuity	Electrically continuous or discontinuous as required
Maximum lengths	15m

Construction

Lining	A synthetic rubber compound, reinforced with a rayon fabric that supports the lining, and including additional heat resistant ceramic fabric layers
Main reinforcement	Multiple plies of wire cord (4"-10") / rayon cord (3") designed for a combination of high strength and resistance to fatigue and temperature. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers
Embed wire	A high tensile steel wire helix is included to prevent collapse and aid crush resistance. Surrounded by filler rubber to prevent abrasion against the adjacent cord layers
Holding ply	Multiple plies of high tenacity rayon cord designed for a combination of high strength and resistance to fatigue, to hold the helical steel wire in place and ensure greater adhesion between cover and body components
Cover	Weathering and abrasion resistant rubber compound
Fittings	Built-in steel nipples with flanges or couplings to suit customer requirements

Technical Design Data

Internal diameter		Outer diameter	Body weight	End weight	MBR	Max working tensile load
in	mm	mm	kg/m	kg/hose	m	tonnes
4	102	159	24.4	25	0.6	7
6	152	211	36.2	46	0.9	14
8	203	264	50.1	67	1.2	17
10*	254	319	71.5	95	1.5	24

*Bore size of 10" supplied generally complying with BS EN 13482.

Hoses manufactured in the United Kingdom will be CE branded hoses (showing full compliance with European Pressure Equipment Directive PED 97/23/EC)

Quality

Dunlop Oil & Marine's commitment to quality is based on continuously improving products that we consider to be market leading in our field and which exceed the requirements of the marine hose industry.

Part of Continental AG, we recognise that our customers require high value for money, quality and reliability - particularly important in the environmentally conscious industry we operate in. Our 60 years of industry expertise, combined with our commitment to quality, has allowed us to be the first in our industry to achieve APIQ1 status in addition to our ISO accreditations. In meeting APIQ1 we are demonstrating to our customers that our quality systems are aligned and meet the specific and more stringent requirements of the oil industry.

Additionally we are proud to confirm that since 2004 all hoses manufactured in our United Kingdom plant have been branded with the CE mark, demonstrating our full compliance to the European Pressure Equipment Directive PED 2014/68/EU.

We have developed a culture that is committed to providing a high quality product and service to our customers. Our customer focus is demonstrated by our Continuous Excellence Initiative (CEI) project, which year after year sets new challenges for our organisation and is aimed at improving our services, quality and reliability of our products and of course creating an environment in which our employees are proud to work in.

Hose Management Services

tailored, expert solutions for the maintenance of your flexible hose assemblies

Ensuring the safe and reliable operation of your flexible hose assemblies, whether in offshore or onshore installations, is essential. Effective hose management not only ensures your operation will continue to run smoothly, but will also eliminate any potential safety or environmental issues and reduce downtime to keep your productivity levels high.

Continental is a world leader in the manufacture of high-pressure drilling and bonded production hoses, crude oil transfer hoses as well as utility and hydraulic assemblies designed specifically for the oil and gas industry. Our expertise and knowledge in this field is unrivalled. With this in-depth capability we have helped to develop the industry standards and guidelines for best practice in the field of integrity management for flexible hose assemblies.

International oil and gas producers and operators across the globe rely on Continental throughout the lifecycle of their flexible hose assemblies, from design and specification through supply to full management of their fluid transfer systems in operation.

We can help you with a number of services, all designed to offer you peace of mind as standard. These are:

Inspection, Testing & Repair

A complete range of inspection and testing services – including:
- inspection and repair of external protection, rubber cover and end fitting painting
- high pressure hydrostatic testing,
- boroscope inspection of the internal carcass or liner
- recertification

Test and inspection can be carried out in dedicated facilities in a number of strategic locations worldwide, or we can come to your preferred location. In addition, we inspect and maintain reeling systems, such as bunker stations or offloading systems.

Inventory Management

An instant overview of all flexible hose assemblies on all of your installations worldwide: ContiConnect is a web-based inventory management program designed for your peace of mind. Being able to see the current status of your FHAs at the click of a button means you can schedule maintenance, order timely replacements and ensure trouble-free operations.

Installation and Commissioning

With our in-depth expertise in all aspects of fluid transfer in the oil and gas industry, we are your first-choice partner for advising and assisting in the specification, installation, commissioning and change-out of flexible hose assemblies and systems, including high-pressure drilling, production, utility, GMPHOM 2009, turret and FPSO seawater intake hoses and also reeling stations.

Hose failure analysis

We carry out various investigations on damaged high-pressure hoses or hose parts at our facility, to reveal the possible causes of damage and propose necessary actions to avoid similar failures in the future.

Continental
Global Leaders in Hose Solutions


High Pressure Hoses


Marine Hoses


Sea-Water Intake Systems


Dredge Hose Systems

Industrial Hoses


Deep Sea Mining


Hose Management


Intelligent Hoses

Continental

The global partner of choice for industrial fluid product systems and services. For combined solutions – smart and sustainable.

Our products are created to the very specific needs of our customer's applications in nearly all industries. This results in hoses and hose systems for the construction industry, the food and drinks industry, for chemical and petrochemical production operations, oil & gas exploration, water treatment, mining, steel production and mechanical engineering.

Continental is made up of a host of sites across the globe and together boast an excellent track record in providing customised solutions in the most diverse environmental conditions in the world.

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The Continental Corporation is a development partner and original equipment supplier to numerous industries for high-quality functional parts, components and systems. With its know how in rubber and plastics technology,

We contribute significantly to industrial progress and mobility that is safe, comfortable and eco-friendly.

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Learn more about the contents of this brochure.

Continental
The Future in Motion