

PETROLEUM

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

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EQUIPMENT

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Washdown

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Abrasives
Bulk Transfer
Cement & Concrete

MINING

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DOCK



	Page	Nitrile Tube	Flosyn Tube	Max W.P.	Corrugated	Temp Range	Built-in Nipple	Swage Nipple*
Flexdock® 225	157	Yes	Yes	225	Yes	-25°F to 200°F	Yes	Yes
Flexdock® 300	158	Yes	Yes	300	Yes	-25°F to 200°F	Yes	Yes
Hot Tar & Asphalt Rough Bore	164	Yes		200		-25°F to 350°F	Yes	
Hot Tar & Asphalt Smooth Bore	164	Yes		200		-25°F to 350°F	Yes	
Lightwing™	165	Yes		250		-22°F to 126°F		
Smooth Bore Dock 200	159	Yes	Yes	200		-25°F to 200°F	Yes	Yes
Smooth Bore Dock 300	160	Yes	Yes	300		-25°F to 200°F	Yes	Yes
Tanker Barge Discharge	161	Yes	Yes	200		-25°F to 220°F	Yes	Yes
Thor™ Submarine	163	Yes		250		-25°F to 180°F	Yes	
Vapor Recovery Dock	162	Yes	Yes	25	Yes	-25°F to 200°F	Yes	Yes

* Up to 10" ID

FLEXDOCK® 225



Product Specifications

APPLICATION:	Built with a corrugated cover to provide flexibility in petroleum transfer service. A variety of tube compounds are available to tailor the chemical and hydrocarbon resistance of the hose to the type of material handled.
CONSTRUCTION	
TUBE:	Nitrile synthetic rubber for up to 50% aromatics. Also available with a Flosyn® tube for up to 100% aromatics.
COVER:	Black Wingprene® synthetic cover, corrugated, wrapped finish
REINFORCEMENT:	Spiral-ply heavy-duty synthetic fabric with double wire helix
TEMPERATURE:	-25°F to 200°F (-32°C to 93°C)
PACKAGING:	Chloroplast heavy-duty packaging
BRANDING (SPIRAL):	Example: Goodyear® Flexdock 225 psi WP Nitrile Oil Service.
COUPLINGS:	Coupled with standard built-in steel nipple/150#RFSO flanges. Available in other bolt hole patterns, materials and floating flanges on request. Swage nipples are offered up to 10". Hose assembly is electrically continuous unless otherwise specified by customer.
NON-STOCK/SIZES:	Custom lengths available, contact customer service.
ORDER CODES:	541-532 (Nitrile tube) 541-534 (Flosyn® tube)

FLEXDOCK® 225

ID		NOM. OD		MAX. WP		BEND RADIUS		VACUUM HG		WEIGHT	
in.	mm.	in.	mm.	psi	Mpa	in.	mm.	in.	mm.	lb./ft.	kg./m.
3	76.2	3.89	98.8	225	1.55	11	279	29	737	3.28	4.88
4	101.6	5.29	134.4	225	1.55	15	381	29	737	6.30	9.38
6	152.4	7.34	186.4	225	1.55	22	559	29	737	9.50	14.14
8	203.2	9.43	239.5	225	1.55	30	762	29	737	13.81	20.55
10	254.0	11.63	295.4	225	1.55	40	1016	29	737	20.49	30.49
12	304.8	13.72	348.5	225	1.55	60	1524	29	737	25.13	37.40

Note: Factory coupled hose manufactured according to the code of Federal Regulations standard 33 CFR 154.500 and 33 CFR 156.170.

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FLEXDOCK® 300



Product Specifications

APPLICATION:	Built with a corrugated cover to provide flexibility in petroleum transfer service. A variety of tube compounds are available to tailor the chemical and hydrocarbon resistance of the hose to the type of material handled.
CONSTRUCTION	
TUBE:	Nitrile synthetic rubber for up to 50% aromatics. Also available with a Flosyn® tube for up to 100% aromatics.
COVER:	Black Wingprene® synthetic cover, corrugated, wrapped finish
REINFORCEMENT:	Heavy-duty synthetic fabric plies with double wire helix.
TEMPERATURE:	-25°F to 200°F (-32°C to 93°C)
PACKAGING:	Chloroplast heavy-duty packaging
BRANDING (SPIRAL):	Example: Goodyear® Flexdock 300 psi WP Nitrile Oil Service.
COUPLINGS:	Coupled with standard built-in steel nipple/150#RFSO flanges. Available in other bolt hole patterns, materials and floating flanges on request. Swage nipples are offered up to 10". Hose assembly is electrically continuous unless otherwise specified by customer.
NON-STOCK/SIZES:	Custom lengths available, contact customer service.
ORDER CODES:	541-533 (Nitrile Tube) 541-535 (Flosyn® tube)

FLEXDOCK® 300

ID		NOM. OD		MAX. WP		BEND RADIUS		VACUUM HG		WEIGHT	
in.	mm.	in.	mm.	psi	Mpa	in.	mm.	in.	mm.	lb./ft.	kg./m.
3	76.2	4.06	103.7	300	2.07	14	356	29	737	3.76	5.60
4	101.6	5.29	134.4	300	2.07	19	483	29	737	6.30	9.38
6	152.4	7.35	186.7	300	2.07	28	711	29	737	9.64	14.35
8	203.2	9.63	244.6	300	2.07	38	965	29	737	15.56	23.16
10	254.0	11.51	292.4	300	2.07	48	1219	29	737	19.73	29.36
12	305.5	13.94	353.9	300	2.07	58	1473	29	737	28.89	42.98

Note: Factory coupled hose manufactured according to the code of Federal Regulations standard 33 CFR 154.500 and 33 CFR 156.170.

SMOOTH BORE DOCK 200



Product Specifications

APPLICATION:	For the transfer of petroleum based products between docks and ships under all types of service conditions. It is available in a number of tube compounds to tailor the fluid handling capabilities to a wide variety of petroleum and chemical compositions.
CONSTRUCTION	
TUBE:	Nitrile synthetic rubber for up to 50% aromatics. Also available with a Flosyn® tube for up to 100% aromatics.
COVER:	Black Chemivic™ (smooth cover, wrap finish)
REINFORCEMENT:	Spiral plied synthetic fabric with wire helix
TEMPERATURE:	-25°F to 200°F (-32°C to 93°C)
PACKAGING:	Chloroplast heavy-duty packaging
BRANDING (SPIRAL):	Example: Goodyear® SB Dock oil service, 200 psi WP Nitrile.
COUPLINGS:	Coupled with standard built-in steel nipple/150#RFSO flanges. Available in other bolt hole patterns, materials and floating flanges on request. Swage nipples are offered up to 10". Hose assembly is electrically continuous unless otherwise specified by customer.
NON-STOCK/SIZES:	Custom lengths available, contact customer service.
ORDER CODES:	541-004 (Nitrile Tube) 541-586 (Flosyn® Tube)

SMOOTH BORE DOCK 200

ID		NOM. OD		MAX. WP		BEND RADIUS		VACUUM HG		WEIGHT	
in.	mm.	in.	mm.	psi	Mpa	in.	mm.	in.	mm.	lb./ft.	kg./m.
3	76.2	4.25	108.0	200	1.38	18	457	29	737	4.50	6.70
4	101.6	5.29	134.4	200	1.38	24	610	29	737	6.15	9.15
6	152.4	7.45	189.2	200	1.38	36	914	29	737	11.27	16.77
8	203.2	9.62	244.4	200	1.38	48	1219	29	737	16.44	24.46
10	254.0	11.62	295.2	200	1.38	60	1524	29	737	21.21	31.56
12	304.8	13.94	354.1	200	1.38	72	1829	29	737	30.63	45.58

Note: Factory coupled hose manufactured according to the code of Federal Regulations standard 33 CFR 154.500 and 33 CFR 156.170.

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SMOOTH BORE DOCK 300



Product Specifications

- APPLICATION:** For the transfer of petroleum based products between docks and ships under all types of service conditions. It is available in a number of tube compounds to tailor the fluid handling capabilities to a wide variety of petroleum and chemical compositions.
- CONSTRUCTION**
TUBE: Nitrile synthetic rubber for up to 50% aromatics. Also available with a Flosyn® tube for up to 100% aromatics.
- COVER:** Black Wingprene® synthetic rubber
- REINFORCEMENT:** Spiral wire helix between plies of synthetic fabric
- TEMPERATURE:** -25°F to 200°F (-32°C to 93°C)
- PACKAGING:** Chloroplast heavy-duty packaging
- BRANDING (SPIRAL):** Example: Goodyear® SB Dock oil service, 300 psi WP Nitrile.
- COUPLINGS:** Coupled with standard built-in steel nipple/150#RFSO flanges. Available in other bolt hole patterns, materials and floating flanges on request. Swage nipples are offered up to 10". Hose assembly is electrically continuous unless otherwise specified by customer.
- NON-STOCK/SIZES:** Custom lengths available, contact customer service.
- ORDER CODES:** 541-580 (Nitrile Tube) 541-584 (Flosyn® Tube)

SMOOTH BORE DOCK 300

ID		NOM. OD		MAX. WP		BEND RADIUS		VACUUM HG		WEIGHT	
in.	mm.	in.	mm.	psi	Mpa	in.	mm.	in.	mm.	lb./ft.	kg./m.
3	76.2	4.25	108.0	300	2.07	21	533	29	737	4.48	6.67
4	101.6	5.29	134.4	300	2.07	27	686	29	737	6.15	9.15
6	152.4	7.51	190.8	300	2.07	39	991	29	737	11.72	17.44
8	203.2	9.78	248.4	300	2.07	51	1295	29	737	17.93	26.68
10	254.0	11.77	299.0	300	2.07	63	1600	29	737	22.99	34.21
12	304.8	14.15	359.4	300	2.07	75	1905	29	737	33.29	49.54

Note: Factory coupled hose manufactured according to the code of Federal Regulations standard 33 CFR 154.500 and 33 CFR 156.170.

TANKER BARGE DISCHARGE



Product Specifications

- APPLICATION:** For discharge applications such as the transfer of petroleum-based products between docks and barges.
- CONSTRUCTION**
 - TUBE:** Nitrile synthetic rubber for up to 50% aromatics.
 - COVER:** Black Wingprene® synthetic rubber
- REINFORCEMENT:** Spiral-plyed synthetic fabric with grounding wires
- TEMPERATURE:** -25°F to 220°F (-32°C to 104°C)
- PACKAGING:** Chloroplast heavy-duty packaging
- BRANDING (SPIRAL):** Example: Goodyear® Tanker Barge Discharge, 200 psi WP Nitrile.
- COUPLINGS:** Coupled with standard built-in steel nipple/150#RFSO flanges. Available in other bolt hole patterns, materials and floating flanges on request. Swage nipples are offered up to 10". Hose assembly is electrically continuous unless otherwise specified by customer.
- NON-STOCK/SIZES:** Custom lengths available, contact customer service.
- ORDER CODES:** 541-426 (Nitrile tube) 541-427 (Flosyn® tube)

TANKER BARGE DISCHARGE

ID		NOM. OD		MAX. WP		WEIGHT	
in.	mm.	in.	mm.	psi	Mpa	lb./ft.	kg./m.
4	101.6	5.09	129.3	200	1.38	4.30	6.40
6	152.4	7.08	179.8	200	1.38	6.18	9.20
8	203.2	9.08	230.6	200	1.38	8.06	11.99
10	254.0	11.06	280.9	200	1.38	9.93	14.78
12	304.8	13.28	337.3	200	1.38	13.91	20.70

Note: Factory coupled hose manufactured according to the code of Federal Regulations standard 33 CFR 154.500 and 33 CFR 156.170.

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VAPOR RECOVERY DOCK



Product Specifications

APPLICATION:	For use in the recovery of petroleum vapors during the transfer of petroleum-based products between docks and tankers or barges.
CONSTRUCTION	
TUBE:	Nitrile synthetic rubber for up to 50% aromatics. Also available with a Flosyn® tube for up to 100% aromatics.
COVER:	Black Chemivic™ synthetic rubber (corrugated)
REINFORCEMENT:	Synthetic fabric plies plus two (2) wire helix
TEMPERATURE:	-25°F to 200°F (-32°C to 93°C)
PACKAGING:	Chloroplast heavy-duty packaging
BRANDING (SPIRAL):	Example: Goodyear® Vapor Recovery 25 psi MWP.
COUPLINGS:	Built-in nipples (or swaged fittings up to 10" ID) fitted with 150# flange with extra 5/8" diameter hole located midway between flange bolt hole as per Coast Guard requirements.
NON-STOCK/SIZES:	Custom lengths available, contact customer service.
ORDER CODES:	541-090 (Nitrile Tube) 541-643 (Flosyn® Tube)

VAPOR RECOVERY DOCK

ID		NOM. OD		MAX. WP		BEND RADIUS		VACUUM HG		WEIGHT	
in.	mm.	in.	mm.	psi	Mpa	in.	mm.	in.	mm.	lb./ft.	kg./m.
6	152.4	6.86	174.2	25	0.17	22	559	29	737	5.70	8.48
8	203.2	8.89	225.8	25	0.17	30	762	29	737	8.26	12.29
10	254.0	10.97	278.6	25	0.17	40	1016	29	737	12.63	18.80
12	304.8	13.00	330.2	25	0.17	60	1524	29	737	15.07	22.43

Note: Factory coupled hose manufactured according to the code of Federal Regulations standard 33 CFR 154.500 and 33 CFR 156.170.

THOR™ SUBMARINE



Product Specifications

- APPLICATION:** For the transfer of petroleum products between docks and tankers when the hose is partially or completely submerged. It is rated at 250 psi (1.73 Mpa) maximum working pressure.
- CONSTRUCTION**
 - TUBE:** Nitrile synthetic rubber
 - COVER:** 1/4" Black Plioflex® synthetic rubber
- REINFORCEMENT:** Spiral wire helix between plies of synthetic fabric
- TEMPERATURE:** -25°F to 180°F (-32°C to 82°C)
- PACKAGING:** Heavy-duty plastic packaging
- BRANDING (IMPRESSION):** Example: Goodyear® SB Submarine oil service, Nitrile 225 psi WP.
- COUPLINGS:** Coupled with galvanized built-in steel nipple/150#RFSO flanges. Available in other bolt hole patterns, materials and floating flanges on request. Hose assembly is electrically continuous unless otherwise specified by customer.
- NON-STOCK/SIZES:** Custom lengths available, contact customer service.
- ORDER CODES:** 541-577

THOR™ SUBMARINE

ID		NOM. OD		MAX. WP		BEND RADIUS		WEIGHT	
in.	mm.	in.	mm.	psi	Mpa	in.	mm.	lb./ft.	kg./m.
6	152.4	7.81	198.4	250	1.72	36	914	14.30	21.28
8	203.2	9.89	251.2	250	1.72	48	1219	20.05	29.84
10	254.0	12.07	306.6	250	1.72	60	1524	27.23	40.52
12	304.8	14.10	358.1	250	1.72	72	1829	31.93	47.52

Note: Factory coupled hose manufactured according to the code of Federal Regulations standard 33 CFR 154.500 and 33 CFR 156.170.

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HOT TAR & ASPHALT



Product Specifications

- APPLICATION:** Designed for petroleum-based products up to 350°F between docks and tankers or barges under heavy-duty conditions.
- CONSTRUCTION**
TUBE: Nitrile synthetic rubber, flat steel wire helix supporting the tube
- COVER:** Wingprene® synthetic rubber
- REINFORCEMENT:** Spiral-plyed synthetic fabric with wire helix
- TEMPERATURE:** -25°F to 350°F (-32°C to 177°C)
- PACKAGING:** Custom lengths available, contact customer service.
- BRANDING:** Example: Goodyear® RB Dock hot asphalt, 350°F, 225 psi max.
- COUPLINGS:** Coupled with galvanized built-in steel nipple/150#RFSO flanges. Available in other bolt hole patterns, materials and floating flanges on request. Smooth bore assembly is electrically continuous unless otherwise specified by customer. Rough bore assembly is offered as electrically continuous only.
- NON-STOCK/SIZES:** Custom lengths available, contact customer service.

SMOOTH BORE

ORDER CODES: 541-606

ID		NOM. OD		MAX. WP		BEND RADIUS		VACUUM HG		WEIGHT	
in.	mm.	in.	mm.	psi	Mpa	in.	mm.	in.	mm.	lb./ft.	kg./m.
4	101.6	5.28	134.1	225	1.55	36	914	29	737	6.48	9.64
6	152.4	7.72	196.1	225	1.55	48	1219	29	737	13.83	20.58
8	203.2	9.80	248.9	225	1.55	60	1524	29	737	19.11	28.44
10	254.0	11.80	299.7	225	1.55	80	2032	29	737	23.20	34.52

ROUGH BORE

ORDER CODES: 541-582

ID		NOM. OD		MAX. WP		BEND RADIUS		VACUUM HG		WEIGHT	
in.	mm.	in.	mm.	psi	Mpa	in.	mm.	in.	mm.	lb./ft.	kg./m.
6	152.4	8.19	208.0	225	1.55	36	914	29	737	16.19	24.09
8	203.2	10.25	260.4	225	1.55	48	1219	29	737	22.39	33.32
10	254.0	12.31	312.7	225	1.55	60	1524	29	737	29.09	43.29

LIGHTWING™ LIGHTERING STS HELIX-FREE HOSE

Product Specifications



- APPLICATION:** Designed for the transfer of crude oil and petroleum based products for ship to ship lightering service, under all types of service conditions. All sizes rated for vacuum. Maximum flow rate 70 ft/sec (21m/s).
- CONSTRUCTION**
TUBE: Code 541-432 Black nitrile for up to 50% aromatic content
 Code 541-718 Black nitrile with static dissipating properties for up to 60% aromatic content
- COVER:** Black Wingprene® (spiral cloth wrap finish)
- REINFORCEMENT:** Helix free, synthetic fabric, heavy duty wall
- TEMPERATURE:** -22°F to 176°F (-30°C to 80°C)
- PACKAGING:** Chloroplast sheet wrap. Also available in corrugated plastic culvert packaging.
- BRANDING:** Example: Lightwing™ Lightering STS Helix-Free 15 Bar
- COUPLINGS:** Coupled with carbon steel built-in nipples with hot dip galvanized (HDG) flange. Standard flange supplied to bolt hole to ANSI-B16.5 class 150, Flat Face Slip-On (FFSO) or Lap Joint (floating), other specifications are available on demand. Available in Raise Face and Weld Neck type.
- NON-STOCK/SIZES:** Custom lengths available, contact customer service.
- ORDER CODES:** 541-432, 541-718

LENGTH AND WEIGHTS

LENGTH METERS	7.6		8.5		9.1		10	
LENGTH FEET	25		28		30		32.5	
diameter	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.
4	248	113	268	122	281	128	297	135
6	433	197	467	212	490	223	518	235
8	715	325	773	351	812	369	861	391
10	1073	488	1159	527	1216	553	1288	585
12	1314	597	1415	643	1483	674	1567	712

HOSE DIMENSIONS

Nominal Inside Diameter		Inside Diameter	Outside Diameter	Weight
in.	mm.	mm.	mm.	kg./m.
4	100	102	143	9.7
6	150	153	203	17.0
8	200	204	268	28.9
10	250	254	331	42.8
12	300	305	382	49.9

FLOW RATES

diameter	Max flow rated based on 21m/sec max	
	M ³ /Hr	bbbl/Hr
4	600	3,800
6	1,350	8,400
8	2,400	15,200
10	3,800	23,900
12	5,500	34,400

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