











# DOCK



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mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
75	3	98	3,86	7	100	450	18,00	85	4,700	3,160	
100	4	124	4,88	7	100	600	24,00	85	6,100	4,100	
150	6	180	7,09	7	100	850	34,00	85	12,200	8,200	
200	8	233	9,17	7	100	1100	44,00	85	16,300	10,950	
NA		LA		NEU		CEU		SA		AP AU	



## 60LAA

**Fuel-oil S&D 7 bar (100 psi)  
EN 1765/S7**

**Tube:** Black NBR

**Reinforcement:** High tensile textile cords with embedded steel helix wire

**Cover:** Black CR- abrasion, ozone, sea water and hydrocarbon resistant

**Use:** Crude oil and liquid petroleum products suction and delivery to/ from tankers and bunkering vessels.







Max 55% aromatic content resistance.

Electrically continuous (discontinuous on request)

**AVAILABLE WITH SWAGED FITTINGS**

**Safety factor:** 4:1

**Temperature:** -20 °C +82 °C (-4 °F +180 °F)

											
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
100	4			7	100	500	20,00	100	10,200	6,850	
150	6			7	100	750	30,00	100	15,900	10,690	
200	8			7	100	1000	40,00	100	24,300	16,330	
250	10			7	100	1250	50,00	100	33,900	22,780	
300	12			7	100	1500	60,00	100	45,800	30,780	
NA		LA		NEU		CEU		SA		AP AU	



## 60AAA

**Fuel-oil S&D 7 bar (100 psi)  
EN 1765/S7**

**Tube:** Black NBR

**Reinforcement:** High tensile textile cords with embedded steel helix wire

**Cover:** Black CR- abrasion, ozone, sea water and hydrocarbon resistant

**Use:** Crude oil and liquid petroleum products suction and delivery to/ from tankers and bunkering vessels.

Max 55% aromatic content resistance.

Electrically continuous (discontinuous on request)

**BUILT-IN FITTINGS**

**ALSO AVAILABLE:**

- 60BAA 100% aromatic content
- 60CAA biofuel

**Safety factor:** 4:1

**Temperature:** -20 °C +82 °C (-4 °F +180 °F)

↔		↔		⏲		⤴		⌋		⏲	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
75	3	100	3,94	10	150	450	18,00	85	4,660	3,130	
100	4	126	4,96	10	150	600	24,00	85	6,100	4,100	
150	6	182	7,17	10	150	850	34,00	85	12,200	8,200	
200	8	235	9,25	10	150	1100	44,00	85	17,300	11,630	
NA		LA		NEU		CEU		SA		AP AU	



**60MAA**  
**Fuel-oil S&D 10 bar (150 psi)**  
**EN 1765/S10**

**Tube:** Black NBR  
**Reinforcement:** High tensile textile cords with embedded steel helix wire  
**Cover:** Black CR- abrasion, ozone, sea water and hydrocarbon resistant  
**Use:** Crude oil and liquid petroleum products suction and delivery to/from tankers and bunkering vessels.  
 Max 55% aromatic content resistance.  
 Electrically continuous (discontinuous on request)  
**AVAILABLE WITH SWAGED FITTINGS**  
**Safety factor:** 4:1  
**Temperature:** -20 °C +82 °C (-4 °F +180 °F)

↔		↔		⏲		⤴		⌋		⏲	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
100	4			10	150	500	20,00	100	10,200	6,850	
150	6			10	150	750	30,00	100	15,900	10,690	
200	8			10	150	1000	40,00	100	24,300	16,330	
250	10			10	150	1250	50,00	100	33,900	22,780	
300	12			10	150	1500	60,00	100	45,800	30,780	
NA		LA		NEU		CEU		SA		AP AU	



**60DAA**  
**Fuel-oil S&D 10 bar (150 psi)**  
**EN 1765/S10**

**Tube:** Black NBR  
**Reinforcement:** High tensile textile cords with embedded steel helix wire  
**Cover:** Black CR- abrasion, ozone, sea water and hydrocarbon resistant  
**Use:** Crude oil and liquid petroleum products suction and delivery to/from tankers and bunkering vessels.  
 Max 55% aromatic content resistance.  
 Electrically continuous (discontinuous on request)  
**BUILT-IN FITTINGS**  
**ALSO AVAILABLE:**  
 • 60EAA 100% aromatic content  
 • 60FAA biofuel  
**Safety factor:** 4:1  
**Temperature:** -20 °C +82 °C (-4 °F +180 °F)

↔		↔		⏲		⤴		⌋		⏲	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
100	4			10	150	600	24,00		6,700	4,500	
150	6			10	150	900	36,00		11,000	7,390	
200	8			10	150	1200	48,00		16,100	10,820	
250	10			10	150	1500	60,00		20,100	13,510	
300	12			10	150	1800	72,00		25,000	16,800	
NA		LA		NEU		CEU		SA		AP AU	



**64AAA**  
**Fuel-oil delivery 10 bar (150 psi)**  
**EN 1765/L10**

**Tube:** Black NBR  
**Reinforcement:** High tensile textile cords  
**Cover:** Black CR- abrasion, ozone, sea water and hydrocarbon resistant  
**Use:** Crude oil and liquid petroleum products delivery to/from tankers and bunkering vessels.  
 Max 55% aromatic content resistance.  
 Electrically continuous (discontinuous on request)  
**BUILT-IN FITTINGS**  
**ALSO AVAILABLE:**  
 • 64BAA 100% aromatic content  
 • 64CAA biofuel  
**Safety factor:** 4:1  
**Temperature:** -20 °C +82 °C (-4 °F +180 °F)

↔		↔		P		⌒		⌒		■	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
75	3	100	3,94	15	225	375	15,00	85	4,710	3,170	
100	4	126	4,96	15	225	500	20,00	85	6,250	4,200	
150	6	184	7,24	15	225	750	30,00	85	12,400	8,330	
NA		LA		NEU		CEU		SA		AP AU	



**60NAA**

**Fuel-oil S&D 15 bar (225 psi)  
EN 1765/S15**

**Tube:** Black NBR  
**Reinforcement:** High tensile textile cords with embedded steel helix wire  
**Cover:** Black CR- abrasion, ozone, sea water and hydrocarbon resistant  
**Use:** Crude oil and liquid petroleum products suction and delivery to/ from tankers and bunkering vessels.  
 Max 55% aromatic content resistance.  
 Electrically continuous (discontinuous on request)  
**AVAILABLE WITH SWAGED FITTINGS**  
**Safety factor:** 4:1  
**Temperature:** -20 °C +82 °C (-4 °F +180 °F)

↔		↔		P		⌒		⌒		■	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
100	4			15	225	500	20,00	100	11,000	7,390	
150	6			15	225	750	30,00	100	17,100	11,490	
200	8			15	225	1000	40,00	100	26,500	17,810	
250	10			15	225	1250	50,00	100	36,600	24,600	
300	12			15	225	1500	60,00	100	51,400	34,540	
NA		LA		NEU		CEU		SA		AP AU	



**60GAA**

**Fuel-oil S&D 15 bar (225 psi)  
EN 1765/S15**

**Tube:** Black NBR  
**Reinforcement:** High tensile textile cords with embedded steel helix wire  
**Cover:** Black CR- abrasion, ozone, sea water and hydrocarbon resistant  
**Use:** Crude oil and liquid petroleum products suction and delivery to/ from tankers and bunkering vessels.  
 Max 55% aromatic content resistance.  
 Electrically continuous (discontinuous on request)  
**BUILT-IN FITTINGS**  
**ALSO AVAILABLE:**  
 • 60HAA 100% aromatic content  
 • 60IAA biofuel  
**Safety factor:** 4:1  
**Temperature:** -20 °C +82 °C (-4 °F +180 °F)

↔		↔		P		⌒		⌒		■	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
100	4			15	225	600	24,00		7,500	5,040	
150	6			15	225	900	36,00		13,400	9,010	
200	8			15	225	1200	48,00		18,100	12,160	
250	10			15	225	1500	60,00		24,700	16,600	
300	12			15	225	1800	72,00		31,400	21,100	
NA		LA		NEU		CEU		SA		AP AU	



**64DAA**

**Fuel-oil delivery 15 bar (225 psi)  
EN 1765/L15**

**Tube:** Black NBR  
**Reinforcement:** High tensile textile cords  
**Cover:** Black CR- abrasion, ozone, sea water and hydrocarbon resistant  
**Use:** Crude oil and liquid petroleum products delivery to/from tankers and bunkering vessels.  
 Max 55% aromatic content resistance.  
 Electrically continuous (discontinuous on request)  
**BUILT-IN FITTINGS**  
**ALSO AVAILABLE:**  
 • 64EAA 100% aromatic content  
 • 64FAA biofuel  
**Safety factor:** 4:1  
**Temperature:** -20 °C +82 °C (-4 °F +180 °F)

# FLOATING ROOF TANK DRAIN

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**906AA** Roof drain 10 bar (150 psi) ..... 106

# FLOATING ROOF TANK DRAIN



↔		↔		⊕	⌒		⌒	⌒	⌒		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	102	4,02	10	150	380	15,00	90	4,780	3,210	
102	4	128	5,04	10	150	510	20,00	90	6,340	4,260	
152	6	180	7,09	10	150	760	30,00	80	10,550	7,090	
NA		LA		NEU		CEU		SA		AP AU	



## 906AA Roof drain 10 bar (150 psi)

**Tube:** Black conductive NBR

**Reinforcement:** High tensile textile cords with embedded steel helix wire

**Cover:** Black conductive NBR- abrasion, ozone and hydrocarbon resistant

**Use:** Rain water drainage in floating petrochemical storage tank roofs. 80% max aromatic content resistance

**ALSO AVAILABLE:**

- 905AA 100% aromatic






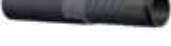





**AVAILABLE WITH SWAGED FITTINGS**

**Safety factor:** 3:1

**Temperature:** -20 °C +82 °C (-4 °F +180 °F)

# RIG SUPPLY



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↔		↔		⏚		⤴		⦶		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	94	3,70	10	150				2,780	1,870	
102	4	120	4,72	10	150				3,670	2,470	
127	5	145	5,71	10	150				4,540	3,050	
152	6	170	6,69	10	150				5,440	3,660	
NA		LA		NEU		CEU		SA	AP		AU



## 642AA

**DNV approved**

**Rig supply soft wall  
fuel-liquid mud 10 bar (150 psi)**

**Tube:** Black conductive NBR

**Reinforcement:** High tensile textile cords

**Cover:** Black conductive CR - abrasion, ozone, hydrocarbon and fire resistant

**Use:** Fuel, oil and liquid mud transfer from supply vessels to offshore platforms. Also suitable for sea water pumping and barite transfer

**Safety factor:** 4:1

**Temperature:** -30 °C +70 °C (-22 °F +158 °F)

↔		↔		⏚		⤴		⦶		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	94	3,70	16	240				2,560	1,720	
102	4	120	4,72	16	240				3,220	2,160	
NA		LA		NEU		CEU		SA	AP		AU



## 646AA

**DNV approved**

**Rig supply soft wall  
fuel-liquid mud 16 bar (240 psi)  
end load resistance 6.000 kg**

**Tube:** Black conductive NBR

**Reinforcement:** High tensile textile cords

**Cover:** Black conductive CR - abrasion, ozone, hydrocarbon and fire resistant

**Use:** Fuel, oil and liquid mud transfer from supply vessels to offshore platforms. Also suitable for sea water pumping and barite transfer. Specially designed for reeling applications and weak link couplings use. Max utilized load 4.000 kg

**Safety factor:** 4:1

**Temperature:** -30 °C +70 °C (-22 °F +158 °F)

↔		↔		⏚		⤴		⦶		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	94	3,70	20	300				2,560	1,720	
102	4	120	4,72	20	300				3,350	2,250	
NA		LA		NEU		CEU		SA	AP		AU



## 648AA

**DNV approved**

**Rig supply soft wall  
fuel-liquid mud 20 bar (300 psi)  
end load resistance 8.000 kg**

**Tube:** Black conductive NBR

**Reinforcement:** High tensile textile cords

**Cover:** Black conductive CR - abrasion, ozone, hydrocarbon and fire resistant

**Use:** Fuel, oil and liquid mud transfer from supply vessels to offshore platforms. Also suitable for sea water pumping and barite transfer. Specially designed for reeling applications and weak link couplings use. Max utilized load 5.333 kg

**Safety factor:** 4:1

**Temperature:** -30 °C +70 °C (-22 °F +158 °F)



↔		↔		⌚		⤴		⌚		⏺	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	100	3,94	40	600				3,960	2,660	
102	4	126	4,96	35	525				4,770	3,210	
NA		LA		NEU		CEU		SA	AP		AU



## 652AA

**DNV approved**

**Rig supply soft wall  
fuel-liquid mud  
end load resistance 10.000 kg**

**Tube:** Black conductive NBR

**Reinforcement:** High tensile textile cords

**Cover:** Black conductive CR - abrasion, ozone, hydrocarbon and fire resistant

**Use:** Fuel, oil and liquid mud transfer from supply vessels to offshore platforms. Also suitable for sea water pumping and barite transfer. Specially designed for reeling applications and weak link couplings use Max utilized load 6.667 kg

**Safety factor:** 4:1

**Temperature:** -30 °C +70 °C (-22 °F +158 °F)

↔		↔		⌚		⤴		⌚		⏺	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	92	3,62	16	240	380	15,00	90	3,260	2,190	
102	4	120	4,72	16	240	510	20,00	90	4,870	3,270	
127	5	147	5,79	10	150	635	25,00	80	6,950	4,670	
152	6	172	6,77	10	150	760	30,00	80	8,680	5,830	
NA		LA		NEU		CEU		SA	AP		AU



## 615AA

**DNV approved**

**Rig supply hard wall  
fuel-liquid mud**

**Tube:** Black conductive NBR

**Reinforcement:** High tensile textile cords with embedded steel helix wire

**Cover:** Black conductive CR - abrasion, ozone, hydrocarbon and fire resistant

**Use:** Fuel, oil and liquid mud transfer from supply vessels to offshore platforms. Also suitable for sea water pumping and barite transfer

**Safety factor:** 4:1

**Temperature:** -30 °C +70 °C (-22 °F +158 °F)

↔		↔		⏚		⤴		⦶		⏚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
102	4	122	4,80	10	150				3,910	2,630	
127	5	147	5,79	10	150				4,820	3,240	
NA		LA		NEU		CEU		SA	AP		AU



## 742AA

**DNV approved**

**Rig supply soft wall  
bulk material 10 bar (150 psi)**

**Tube:** Black conductive NR - abrasion resistant  
**Reinforcement:** High tensile textile cords  
**Cover:** Black conductive SBR/NR - abrasion and ozone resistant  
**Use:** Bulk material, barite and dry cement transfer from supply vessels to offshore platforms  
**Safety factor:** 4:1  
**Temperature:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⏚		⤴		⦶		⏚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
102	4	122	4,80	20	300				4,180	2,810	
127	5	151	5,94	20	300				5,060	3,400	
NA		LA		NEU		CEU		SA	AP		AU



## 748AA

**DNV approved**

**Rig supply soft wall  
bulk material 20 bar (300 psi)  
end load resistance 8.000 kg**

**Tube:** Black conductive NR - abrasion resistant  
**Reinforcement:** High tensile textile cords  
**Cover:** Black conductive SBR/NR - abrasion and ozone resistant  
**Use:** Bulk material, barite and dry cement transfer from supply vessels to offshore platforms.  
 Specially designed for reeling applications and weak link couplings use  
 Max utilized load 5.333 kg  
**Safety factor:** 4:1  
**Temperature:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⏚		⤴		⦶		⏚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
102	4	122	4,80	10	150	408	16,00	90	4,810	3,230	
127	5	149	5,87	10	150	635	25,00	80	6,990	4,700	
NA		LA		NEU		CEU		SA	AP		AU



## 715AA

**DNV approved**

**Rig supply hard wall  
bulk material 10 bar (150 psi)**

**Tube:** Black conductive NR - abrasion resistant  
**Reinforcement:** High tensile textile cords with embedded steel helix wire  
**Cover:** Black conductive SBR/NR - abrasion and ozone resistant  
**Use:** Bulk material, barite and dry cement transfer from supply vessels to offshore platforms  
**Safety factor:** 4:1  
**Temperature:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⏚		⤴		⦶		⏚	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
152	6	188	7,40	10	150			80	15,520	10,430	
NA		LA		NEU		CEU		SA	AP		AU



## 727AA

**DNV approved**

**Drilling waste - hard wall 10 bar (150 psi)  
end load resistance 26.000 kg**

**Tube:** Black conductive NR - abrasion resistant  
**Reinforcement:** High tensile textile cords with embedded steel helix wire - boot straps  
**Cover:** Black conductive SBR/NR - abrasion and ozone resistant  
**Use:** Dumpline for drill cuttings containing sand, sea water and abrasive material. Also suitable for barite transfer.  
 Heavy duty, high end load construction.  
 Not to be used with oil based mud  
**Safety factor:** 4:1  
**Temperature:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌚		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
76	3	94	3,70	10	150				2,860	1,920
102	4	120	4,72	10	150				3,770	2,530

NA	LA	NEU	CEU	SA	AP	AU
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**442LI**

**DNV approved**

**Rig supply soft wall  
potable water 10 bar (150 psi)  
FDA**

**Tube:** White NR  
**Reinforcement:** High tensile textile cords  
**Cover:** Orange NBR/PVC - abrasion, ozone and hydrocarbon resistant  
**Use:** Potable water transfer from supply vessels to offshore platforms.  
 Sterilize with 5% soda solution  
**Safety factor:** 4:1  
**Temperature:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌚		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
102	4	120	4,72	20	300				4,140	2,780

NA	LA	NEU	CEU	SA	AP	AU
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**448LI**

**DNV approved**

**Rig supply soft wall  
potable water 20 bar (300 psi)  
end load resistance 8.000 kg  
FDA**

**Tube:** White NR  
**Reinforcement:** High tensile textile cords  
**Cover:** Orange NBR/PVC - abrasion, ozone and hydrocarbon resistant  
**Use:** Potable water transfer from supply vessels to offshore platforms.  
 Specially designed for reeling applications and weak link couplings use.  
 Sterilize with 5% soda solution  
 Max utilized load 5.333 kg  
**Safety factor:** 4:1  
**Temperature:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		⌚		⤴		⌚		
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
76	3	92	3,62	10	150	304	12,00	90	3,610	2,430
102	4	120	4,72	10	150	408	16,00	90	4,810	3,230

NA	LA	NEU	CEU	SA	AP	AU
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**415LI**

**DNV approved**

**Rig supply hard wall  
potable water 10 bar (150 psi)  
FDA**

**Tube:** White NR  
**Reinforcement:** High tensile textile cords with embedded steel helix wire  
**Cover:** Orange NBR/PVC - abrasion, ozone and hydrocarbon resistant  
**Use:** Potable water transfer from supply vessel to offshore platforms.  
 Sterilize with 5% soda solution  
**Safety factor:** 4:1  
**Temperature:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		Ⓜ		⌒		⌒		Ⓜ	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	106	4,17	20	300	456	18		5,700	3,830	
102	4	132	5,20	20	300	612	24		7,450	5,010	
127	5	157	6,18	20	300	762	30		9,700	6,520	
152	6	192	7,56	20	300	912	36		18,900	12,700	
203	8	243	9,57	20	300	1218	48		25,600	17,200	
NA		LA		NEU		CEU		SA	AP		AU



## 230AH

### Firewater 20 bar (300 psi)

**Tube:** Black conductive NBR

**Reinforcement:** High tensile steel cords.  
ID >= 152 mm with embedded steel helix wire

**Cover:** Fiberglass fabric coated with red fire resistant CSM

**Use:** Firewater mains systems on board off shore installations and sea going vessels.

ID >= 152 mm corrugated construction for maximum flexibility

**Safety factor:** 5:1

**Temperature:** -30 °C +80 °C (-22 °F +176 °F)

↔		↔		Ⓜ		⌒		⌒		Ⓜ	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
13	1/2	23	0,91	20	300				0,350	0,235	
19	3/4	31	1,22	20	300				0,580	0,390	
25	1	37	1,46	20	300				0,730	0,490	
38	1 1/2	52	2,05	20	300				1,070	0,720	
51	2	67	2,64	20	300				1,880	1,260	
63	2 1/2	81	3,19	20	300				2,300	1,550	
76	3	94	3,70	20	300				2,790	1,880	
90	3 1/2	108	4,25	20	300				3,440	2,310	
NA		LA	NEU		CEU		SA	AP		AU	



## 953AE

### General purpose 20 bar (300 psi) - EPDM

**Tube:** Black EPDM

**Reinforcement:** High tensile textile cords

**Cover:** Blue EPDM - abrasion and ozone resistant

**Use:** Air, water and mild chemicals delivery

**Safety factor:** 4:1

**Temperature:** -30 °C +80 °C (-22 °F +176 °F)