



OIL & GAS PRODUCT RANGE

DRILLING

- SLIM HOLE ROTARY - FLEXOR RIG™ 4
- ROTARY DRILLING & VIBRATOR 5



SLIM HOLE ROTARY - FLEXOR RIG™

Tube: Oil and biodegradable hydraulic fluid resistant synthetic rubber
Reinforcement: High tensile steel spirals
Cover: Abrasion, ozone and hydrocarbon resistant synthetic rubber
Application: Rotary hose, specially designed for portable, work-over and seismograph drilling rigs. MSHA approved
Temperature: -40°C +120°C (-40°F +250°F) wire spiral
 Air max T = +70°C (+160°F)
Length: Random up to 1”
 61 m from 1 ¼” to 3”



Recommended fitting, page:
 Hydraulic fitting-API thread 87

Constr.	Dash	↔		↔		⊕		⊕		⌒		⏊	
		mm	in	mm	in	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/ft
4S	-16	25	1	38,7	1,52	38	5500	152	22000	305	12,2	2,0	134
6S	-20	32	1 1/4	49,8	1,96	35	5000	140	20000	419	16,8	3,6	241
6S	-24	38	1 1/2	57,3	2,26	35	5000	140	20000	508	20,3	4,8	322
6S	-32	51	2	70,9	2,79	35	5000	140	20000	635	25,4	6,6	442
4S	-40	63	2 1/2	79	3,11	22	3200	56*	8120*	720	28,35	4,63	311
4S	-48	76	3	92,5	3,64	22	3200	56*	8120*	840	33,07	5,40	362
6S	-40	63	2 1/2	82,8	3,26	35	5000	86*	12500*	800	31,50	7,56	507
6S	-48	76	3	95,6	3,76	35	5000	86*	12500*	900	35,43	7,95	533

* Safety factor 2,5:1



ROTARY DRILLING & VIBRATOR

According to API 7K
Grade D and E

Tube: Oil and drilling mud resistant synthetic rubber

Reinforcement: Multiple layers of spiralled high tensile steel cords

Cover: Abrasion, ozone and hydrocarbon resistant synthetic rubber

Application: Rotary drilling, Vibrator, Motion Compensator

Temperature: -20 °C +100 °C (-4 °F +212 °F)

Length: 47,25 m (155 ft) max

Note: Grade C (WP 4000 psi) available on demand



↔			↔		Grade	Ⓢ		Test Pressure		Ⓢ		⤴		Ⓢ	
Dash	mm	in	mm	in		Mpa	psi	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/ft
-32	51	2	93,6	3,69	D	35	5000	70	10000	86	12500	900	35,4	13,06	8,76
-40	63	2 1/2	110,7	4,36	D	35	5000	70	10000	86	12500	900	35,4	17,36	11,65
-48	76	3	126,0	4,96	D	35	5000	70	10000	86	12500	1200	47,2	19,52	13,10
-56	90	3 1/2	138,7	5,46	D	35	5000	70	10000	86	12500	1400	55,1	21,79	14,62
-64	102	4	161,0	6,34	D	35	5000	70	10000	86	12500	1400	55,1	34,47	23,13
-32	51	2	102,0	4,02	E	52,5	7500	70	10000	131	18750	1200	47,2	18,59	12,47
-40	63	2 1/2	118,0	4,65	E	52,5	7500	105	15000	131	18750	1200	47,2	23,10	15,50
-48	76	3	133,4	5,25	E	52,5	7500	105	15000	131	18750	1200	47,2	26,87	18,03
-56	90	3 1/2	146,0	5,75	E	52,5	7500	105	15000	131	18750	1400	55,1	30,22	20,28
-64	102	4	168,4	6,63	E	52,5	7500	105	15000	131	18750	1500	59,1	44,77	30,04



OIL WELL CEMENTING

- OIL WELL CEMENTING 8
- OIL WELL CEMENTING 10K SUPERTUFF 8
- SUBSEA GROUTING 5K 8



OIL WELL CEMENTING

According to API 7K

Tube: Oil and drilling mud resistant synthetic rubber
Reinforcement: Multiple layers of spiralled high tensile steel cables
Cover: Abrasion, ozone and hydrocarbon resistant synthetic rubber
Application: High pressure cement slurry transfer between pump manifold and cementing head
Temperature: -20 °C +100 °C (-4 °F +212 °F)
Length: 47,25 m (155 ft) max.



↔			↔		⊕		Test Pressure		⊖		⌒		⬮	
Dash	mm	in	mm	in	Mpa	psi	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/ft
-32	51	2	93,6	3,69	35	5000	70	10000	86	12500	900	35,4	13,06	8,76
-48	76	3	126,0	4,96	35	5000	70	10000	86	12500	1200	47,2	19,52	13,10
-56	90	3 1/2	138,7	5,46	35	5000	70	10000	86	12500	1400	55,1	21,79	14,62
-64	102	4	161,0	6,34	35	5000	70	10000	86	12500	1400	55,1	34,47	23,13
-32	51	2	102,0	4,02	52	7500	105	15000	131	18750	1200	47,2	18,59	12,47
-48	76	3	135,6	5,34	52	7500	105	15000	131	18750	1500	59,1	31,20	20,94
-56	90	3 1/2	148,3	5,84	52	7500	105	15000	131	18750	1600	63,0	35,00	23,49
-64	102	4	171,3	6,74	52	7500	105	15000	131	18750	1800	70,9	51,10	34,29

OIL WELL CEMENTING SUPERTUFF



Tube: Oil and biodegradable hydraulic fluids resistant synthetic rubber
Reinforcement: High tensile steel spirals
Cover: Abrasion, ozone and hydrocarbon resistant synthetic rubber
Application: Very high pressure hydraulic lines. Also suitable for fuel oil, anti-freeze solutions, air and water. Special compact construction designed to operate at tight bend radius in demanding applications. Specially designed for oil well cementing.
 MSHA approved
Temperature: -40 °C +121 °C (-40 °F +250 °F)
 Air max T = +70 °C (+160 °F)
Length: 61 m (200 ft)



		↔			↔		⊕		⊖		⌒		⬮	
Constr.	Item Code	Dash	mm	in	mm	in	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/ft
4S		-32	51	2			35	5000	86	12500				
6S	1000344	-32	51	2	72	2,83	70	10000	155	22500	600	24	7,08	4,76

SUBSEA GROUTING 5K



Tube: Oil and biodegradable hydraulic fluids resistant synthetic rubber
Reinforcement: High tensile steel spirals
Cover: Abrasion, ozone and hydrocarbon resistant synthetic rubber
Application: Very high pressure hydraulic lines. Also suitable for fuel oil, anti-freeze solutions, air and water. Special compact construction designed to operate at tight bend radius in demanding applications. Specially designed for subsea grouting.
 MSHA approved
Temperature: -40 °C +121 °C (-40 °F +250 °F)
 Air max T = +70 °C (+160 °F)
Length: 61 m (200 ft)



		↔			↔		⊕		⊖		⌒		⬮	
Constr.	Item Code	Dash	mm	in	mm	in	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/ft
6S	1001534	-32	51	2	71,1	2,80	35	5000	140	20000	545	21,8	6,540	4,40

BLOW OUT PREVENTION

- CHOKE & KILL 10
- BOP - FIRESAFE 5000 10



BOP - FIRESAFE 5000

API 16-D Flame resistance

Tube: Oil resistant synthetic rubber

Reinforcement: High tensile steel spirals

Cover: Oil and fire resistant synthetic rubber

Application: High pressure hydraulic lines in blow out prevention systems, where continuous operation in case of fire is required

Temperature: -40 °C +121 °C (-40 °F +250 °F)
air max T = +70 °C (+160 °F)

Length: Random up to 1"
61 m (200 ft) from 1 1/4" to 2"

Recommended fitting, page:

Hydraulic fitting-API thread 87



Constr.	Dash	↔		↔		⌚		⌚		⌒		⏚	
		mm	in	mm	in	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/ft
4S	4	6	1/4	26,0	1,02	35	5000	140	20000	150	5,91	0,70	0,47
4S	6	10	3/8	28,7	1,13	35	5000	140	20000	180	7,09	0,79	0,53
4S	8	12	1/2	31,8	1,25	35	5000	140	20000	230	9,06	1,28	0,86
4S	12	20	3/4	39,6	1,56	35	5000	140	20000	300	11,81	1,85	1,24
4S	16	25	1	47,0	1,85	35	5000	140	20000	340	13,39	2,69	1,80
4S	20	32	1 1/4	53,8	2,12	35	5000	140	20000	460	18,11	3,34	2,24
6S	24	38	1 1/2	65,8	2,59	35	5000	140	20000	560	22,05	5,87	3,94
6S	32	51	2	79,4	3,13	35	5000	140	20000	700	27,56	7,78	5,22

CHOKE & KILL

API 16-C Fire Resistant

Tube: Oil and drilling mud resistant synthetic rubber

Reinforcement: Multiple layers of spiralled high tensile steel cables

Cover: Stainless steel armor

Application: Choke & kill in BOP systems. Designed for application with Sour Gas and H₂S up to +121 °C (+250 °F)

Temperature: -20 °C +120 °C (-4 °F +248 °F)

Length: 47,25 m (155 ft) max

Note: Stainless steel armor covered available on demand



Dash	↔		↔		⌚		Test Pressure		⌚		⌒		⏚	
	mm	in	mm	in	Mpa	psi	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/ft
32	51	2	95,2	3,75	35	5000	70	10000	86	12500	900	35,4	11,30	7,58
40	63	2 1/2	108,7	4,28	35	5000	70	10000	86	12500	900	35,4	15,60	10,47
48	76	3	126,2	4,97	35	5000	70	10000	86	12500	1200	47,2	20,90	14,02
56	90	3 1/2	139,1	5,48	35	5000	70	10000	86	12500	1400	55,1	23,49	15,76
64	102	4	161,2	6,35	35	5000	70	10000	86	12500	1400	55,1	36,50	24,49
32	51	2	102,2	4,02	70	10000	140	20000	155	22500	1200	47,2	20,17	13,53
40	63	2 1/2	116,1	4,57	70	10000	140	20000	155	22500	1200	47,2	23,05	15,47
48	76	3	137,0	5,39	70	10000	140	20000	155	22500	1500	59,1	31,56	21,18
56	90	3 1/2	149,9	5,90	70	10000	140	20000	155	22500	1600	63,0	34,35	23,05
64	102	4	173,3	6,82	70	10000	140	20000	155	22500	1800	70,9	51,42	34,50

DOCK

- **60MAA** Fuel-oil S&D 10 bar (150 psi) - EN 1765/S10 12
- **60DAA** Fuel-oil S&D 10 bar (150 psi) - EN 1765/S10 12
- **64AAA** Fuel-oil delivery 10 bar (150 psi) - EN 1765/L10 12
- **60NAA** Fuel-oil S&D 15 bar (225 psi) - EN 1765/S15 13
- **60GAA** Fuel-oil S&D 15 bar (225 psi) - EN 1765/S15 13
- **64DAA** Fuel-oil delivery 15 bar (225 psi) - EN 1765/L15 13
- **60JAA** Fuel-oil S&D 15 bar (225 psi) - EN 1765/S15..... 14
- **5N331** Acid-chemical S&D 14 bar (200 psi) - heavy duty - PTFE - BS 5842 arrêté ADR annexe 1 15
- **6N511** Fuel-oil S&D 14 bar (200 psi) - heavy duty - high temperature +100 °C (+212 °F)
BS 3492/BX - BS 5842 arrêté ADR annexe 1 15



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.

Version suitable for 100% aromatic content or biofuel available on request.

Electrically continuous (discontinuous on request)

Safety factor: 4:1

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

Stainless Steel version available on request

Recommended fitting, page:

Combination nipple with pre-crimped ferrule 72
Insert with flange PN 16 - ASA 150 75-76



↔		↔		⏱		⤴		⌈		⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
76	3	98	3,86	10	150	450	18,00	85	4,960	3,328	
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	

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)

Also available:

- 60EAA 100% aromatic content
- 60FAA biofuel

Safety factor: 4:1

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

Stainless Steel version available on request

Recommended fitting, page:

Built-in fittings with flange PN 16 - ASA 150 75-76



↔		↔		⏱		⤴		⌈		⚖	
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	

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)

Also available:

- 64BAA 100% aromatic content
- 64CAA biofuel

Safety factor: 4:1

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

Stainless Steel version available on request

Recommended fitting, page:

Built-in fittings with flange PN 16 - ASA 150 75-76



↔		↔		⏱		⤴		⌈		⚖	
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	

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.

Version suitable for 100% aromatic content or biofuel available on request.

Electrically continuous (discontinuous on request)

Safety factor: 4:1

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

Stainless Steel version available on request

Recommended fitting, page:

Combination nipple with pre-crimped ferrule72
Insert with flange PN 16 - ASA 150..... 75-76



↔		↔		⌚		⤴		⌘	⬛	
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

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)

Also available:

- 60HAA 100% aromatic content
- 60IAA biofuel

Safety factor: 4:1

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

Stainless Steel version available on request

Recommended fitting, page:

Built-in fittings with flange PN 16 - ASA 150..... 75-76



↔		↔		⌚		⤴		⌘	⬛	
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

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.

Max 55% aromatic content resistance.

Electrically continuous (discontinuous on request)

Also available:

- 64EAA 100% aromatic content
- 64FAA biofuel

Safety factor: 4:1

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

Stainless Steel version available on request

Recommended fitting, page:

Built-in fittings with flange PN 16 - ASA 150..... 75-76



↔		↔		⌚		⤴		⌘	⬛	
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

60JAA

**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.

Version suitable for 100% aromatic content or biofuel available on request.

Electrically continuous (discontinuous on request)

Also available:

- 60KAA 100% aromatic content

Safety factor: 5:1

Temperature: -31 °C +43 °C (-24 °F +200 °F)

Stainless Steel version available on request

Recommended fitting, page:

Built-in fittings with flange PN 16 - ASA 150.....77



→ ⊙ ←		→ ⊙ ←		⌚		⤴		⌘		⬛	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft	
100	4			15	225	400	16,00	100	14,400	9,680	
150	6			15	225	600	24,00	100	21,700	14,580	
200	8			15	225	800	31,50	100	32,000	21,510	
250	10			15	225	1000	39,00	100	45,700	30,710	
300	12			15	225	1200	47,00	100	57,600	38,710	

hose

fittings

Accessories

5N331

Acid-chemical S&D 14 bar (200 psi) - heavy duty PTFE
BS 5842

Inner wire: Stainless steel

Tube: PTFE film

Cover: Grey PVC coated fabric

Outer wire: Galvanized steel

Use: Acid, chemical, fuel and solvents suction and delivery. Specially designed for long service life in heavy duty applications requiring resistance to high temperature

Safety factor: 4:1

Temperature: -30 °C +115 °C (-22 °F +239 °F)

EN 13765 arrêté ADR annexe 1 available on request

Recommended fitting, page:

Composite hose fitting 78-81



↔		↔		⌚		⤴		⌘	⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
40	1 1/2	53	2,09	14	200	140	5,50	90	1,300	0,870
50	2	63	2,48	14	200	150	6,00	90	1,700	1,140
63*	2 1/2	78	3,07	14	200	175	7,00	90	2,300	1,540
65	2 5/8	78	3,07	14	200	175	7,00	90	2,500	1,680
75	3	90	3,54	14	200	250	10,00	90	2,700	1,810
80	3 1/8	94	3,70	14	200	250	10,00	90	3,500	2,350
100	4	122	4,80	14	200	350	14,00	90	6,200	4,160

* Pitch for UK market

6N511

Fuel-oil S&D 14 bar (200 psi) - heavy duty high temperature +100 °C (+212 °F)
BS 3492/BX BS 5842

Inner wire: Galvanised steel

Tube: Polyester film

Cover: Grey PVC with longitudinal yellow stripe coated fabric

Outer wire: Galvanized steel

Use: Fuel and oil suction and delivery. Specially designed for long service life in heavy duty applications requiring resistance to high temperature

Safety factor: 4:1

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

EN 13765 arrêté ADR annexe 1 available on request

Recommended fitting, page:

Composite hose fitting 78-81



↔		↔		⌚		⤴		⌘	⚖	
mm	inch	mm	inch	bar	psi	mm	inch	%	kg/m	lb/ft
100	4			14	200	400	15,70	90	7,400	4,970
150	6			14	200	550	21,60	90	12,400	8,330
200	8			14	200	725	28,50	90	21,800	14,650
250	10			10,5	150	900	35,40	90	27,000	18,150