



DRIVEN BY POSSIBILITY™

# GATES® BLACK GOLD™ HIGH PRESSURE OIL & GAS HOSE



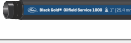





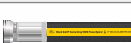












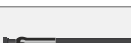




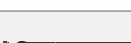
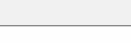
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## GATES: A GLOBAL COMPANY SERVING THE ENERGY MARKET

Gates Oil & Gas focuses on providing products that deliver cost-effective solutions to safely explore, extract, and produce oil and gas. Our people have the experience and knowledge gained through years of experience standing by our customers, and listening to the issues that arise in the field.

We provide a comprehensive range of flexible hoses and couplings for fluid transfer. Our modern international facilities manufacture low, medium and high pressure hose assemblies, including specialty long-length and fire-rated hoses. Where required DNV, ABS and other third-party approvals are available. Our technical team will support the client design team during all phases of engineering from FEED studies through to installation and lifetime service support ensuring the hoses maintain excellent performance and long life.

Gates provides high quality and reliable service to our customers, to an industry where quality and delivery are paramount. We strive for excellence in the provision of flexible hoses and are committed to building long-term relationships with our customers.

	HOSE TYPE	APPLICATION	WORKING PRESSURE		
	HYDRAULIC TENSIONER & COMPENSATOR HOSE	Hydraulic Riser Tensioner Hose	3000 psi (200 Bar)		
	BLACK GOLD LEG JETTING	High pressure water systems used to break the suction between the jack-up feet (spud cans) and ocean floor prior to lifting the legs.	2000 psi (138 Bar) & 4000 psi (275 bar)		
	OILFIELD SERVICE 1000 FRAC	Special chemical resistant tube. The Hypalon® cover provides additional resistance to oil and environmental conditions.	1000 psi (69 Bar)		
	BLACK GOLD™ POWERBRAID™ (1 WIRE)	Flexible hydraulic connections between the Hydraulic Power Unit (HPU) and critical drilling equipment such as top drives, iron roughnecks and pipe handlers that demand extreme performance and durability.	3000 psi (200 Bar)		
	BLACK GOLD™ POWERBRAID™ (2 WIRE)		1500 - 5000 psi (103-345 Bar)		
	POWERSPIRAL™ 3000		3000 psi (200 Bar)		
	POWERSPIRAL™ 5000		5000 psi (345 Bar)		
	BOP 5000 MEGASHIELD™		Blow out preventer (BOP) systems requiring high pressure, high temperature and flame resistant control lines certified to API 16D and Lloyds 1000/499 fire test	5000 psi (345 Bar)	
	CEMENTING 5000 POWERSPIRAL™		Hose is designed to handle abrasive and corrosive cements. The cover is designed to handle external damage from abrasion, corrosion, gouges, oil and weather.	5000 psi (345 Bar)	
	CEMENTING 10000 POWERSPIRAL™	10000 psi (690 Bar)			
	CEMENTING 5000	Suitable for conveyance of cement slurries at high pressure. The UltraBration™ cover is designed to handle external damage from abrasion, corrosion, gouges, oil and weather.	5000 psi (345 Bar)		
	CEMENTING 10000		10000 psi (690 Bar)		
	CEMENTING 15000 API	Suitable for conveyance of cement slurries at high pressure. The UltraBration™ cover is designed to handle external damage from abrasion, corrosion, gouges, oil and weather.	15000 psi (1034 Bar)		
	CHOKE & KILL 5000 MEGASHIELD™	MegaShield™ hoses can be used with or without stainless steel armor.	5000 psi (345 Bar)		
	CHOKE & KILL 10000 MEGASHIELD™		10000 psi (690 Bar)		
	CHOKE & KILL 5000	Specially designed to withstand flexing and high pressures encountered in offshore applications.	5000 psi (345 Bar)		
	CHOKE & KILL 10000	Armored Flexible Choke & Kill Hoses.	10000 psi (690 Bar)		
	CHOKE & KILL 15000		15000 psi (1034 Bar)		
	CHOKE & KILL HOSE API 16C	Specially designed to withstand flexing and high pressures encountered in offshore Choke and Kill applications.	10000 psi (690 Bar)		
	ROTARY DRILLING & VIBRATOR, MUD DELIVERY, AND CEMENT HOSES 5000 SOUR SERVICE	Flexible connection between standpipe and top drive/swivel or between pump and standpipe for pumping mud at extra high pressure in oil drilling and exploration work.	5000 psi (345 Bar)		
	ROTARY DRILLING & VIBRATOR, MUD DELIVERY & CEMENT HOSES 7500 SOUR SERVICE		7500 psi (517 Bar)		
	ROTARY DRILLING & VIBRATOR, MUD DELIVERY AND CEMENT HOSES GRADE D	Flexible connection between standpipe and top drive/swivel or between pump and standpipe for pumping mud at extra high pressure in oil drilling and exploration work.	5000 psi (345 Bar)		
	ROTARY DRILLING & VIBRATOR, MUD DELIVERY & CEMENT HOSES GRADE E		7500 psi (517 Bar)		
	ROTARY DRILLING & VIBRATOR, MUD DELIVERY HOSE 10,000	Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure.	10000 psi (690 Bar) & 15000 psi (1034 Bar)		
	ROTARY DRILLING AND VIBRATOR, MUD DELIVERY HOSE XTREME™ ROTARY VIBRATOR 7500 GRADE E	Gates Black Gold™ XTreme™ hose product family is specifically designed for today's demanding drilling conditions. The UltraBration hose cover material resists external abrasion, chemical and U/V attack.	7500 psi (517 Bar)		
	ROTARY DRILLING & VIBRATOR, MUD DELIVERY HOSE LOW TEMPERATURE GRADE D	Flexible connection between standpipe and top drive/swivel or between pump and standpipe for pumping mud at extra high pressure in oil drilling in extreme cold conditions.	5000 psi (345 Bar)		
	ROTARY DRILLING & VIBRATOR, MUD DELIVERY HOSE LOW TEMPERATURE GRADE E		7500 psi (517 Bar)		
	SLIM HOLE ROTARY	Rotary applications on workover rigs and slim hole or seismograph rigs. Applications on small or medium-sized drilling rigs used for water well operations, water well core drill, blast or shot hole operations.	1500-5000 psi (103-345 Bar)		

	CONSTRUCTION	SIZES ID	WORKING TEMP RANGE
	<b>Tube:</b> Stripwound and HNBR; <b>Reinforcement:</b> Multiple layers of textile fabric and steel cable; <b>Cover:</b> PCR; <b>Couplings:</b> Built-in Couplings; <b>Flexible Specification Level:</b> FSL 1; <b>Approvals Standards:</b> API 7K , IOS 47693, ABS, DNV	8"	(-25°C to +100°C) (-13°F to +212°F)
	<b>Tube:</b> Black Nitrile Rubber; <b>Reinforcement:</b> Multiple layers of textile fabric and steel cable tapes; <b>Cover:</b> PCR; <b>Couplings:</b> Crimped; <b>Approvals Standards:</b> IOS 47693, ABS, DNV	2-1/2" - 6"	(-25°C to +100°C) (-13°F to +212°F)
	<b>Tube:</b> Type J (CPE); <b>Reinforcement:</b> Braided, High tensile steel wire; <b>Cover:</b> Type M (Hypalon®); <b>Couplings:</b> Gates Megacrimp; <b>Approvals Standards:</b> MSHA, SAE 100 R2, ABS, DNV	3/8" - 1"	(-40°C to +150°C) (-40°F to +300°F)
	<b>Tube:</b> Type C (Nitrile); <b>Reinforcement:</b> One braid of high-tensile steel wire; <b>Cover:</b> Type C2 (Modified Nitrile); <b>Couplings:</b> Gates Megacrimp; <b>Approvals Standards:</b> MSHA, SAE 100 R1, ABS, DNV	1/4" - 2"	(-40°C to +100°C) (-40°F to +212°F)
	<b>Tube:</b> Type C (Nitrile); <b>Reinforcement:</b> Two braids of high-tensile steel wire; <b>Cover:</b> Type C2 (Modified Nitrile); <b>Couplings:</b> Gates Megacrimp; <b>Approvals Standards:</b> MSHA, SAE 100 R2, ABS, DNV	1/4" - 4"	(-40°C to +100°C) (-40°F to +212°F)
	<b>Tube:</b> Black, oil resistant synthetic rubber (Nitrile - Type C); <b>Reinforcement:</b> Four alternating layers of spiraled, high-tensile steel.; <b>Cover:</b> Black, oil resistant, synthetic rubber (Neoprene - Type A); <b>Couplings:</b> GSM,; <b>Approvals Standards:</b> MSHA, SAE 100 R12, ABS, DNV	1-1/4" - 3"	(-40°C to +100°C) (-40°F to +212°F)
	<b>Tube:</b> Black, oil resistant synthetic rubber (Nitrile - Type C); <b>Reinforcement:</b> Four alternating layers of spiraled, high-tensile steel.; <b>Cover:</b> Black, oil resistant, synthetic rubber (Neoprene - Type A); <b>Couplings:</b> GSM, GSH; <b>Approvals Standards:</b> MSHA, SAE 100 R13, ABS, DNV	1-1/4" - 2"	(-40°C to +100°C) (-40°F to +212°F)
	<b>Tube:</b> Type C (Nitrile); <b>Reinforcement:</b> Multiple layers of high tensile steel wire; <b>Cover:</b> Type A3 (Modified Chloroprene); <b>Couplings:</b> GSM, GSH; <b>Approvals Standards:</b> API 16D, Lloyds OD 1000/499, EUB, ABS, DNV	1/4" - 2"	(-40°C to +100°C) (-40°F to +212°F)
	<b>Tube:</b> Type C (Nitrile); <b>Reinforcement:</b> Multiple layers of spiraled high tensile steel wire; <b>Cover:</b> Type A (Chloroprene); <b>Couplings:</b> GSM, GOP; <b>Flexible Specification Level:</b> FSL 0; <b>Approvals Standards:</b> MSHA, API 7K, ABS, DNV	2"	(-20°C to +121°C) (-4°F to +250°F)
	<b>Tube:</b> Type C (Nitrile); <b>Reinforcement:</b> Multiple layers of spiraled high tensile steel wire; <b>Cover:</b> Type A (Chloroprene); <b>Couplings:</b> GSM, GOP; <b>Flexible Specification Level:</b> FSL 0; <b>Approvals Standards:</b> MSHA, API 7K, ABS, DNV	1-1/2" - 2"	(-20°C to +121°C) (-4°F to +250°F)
	<b>Tube:</b> Type C3 (Modified Nitrile); <b>Reinforcement:</b> Multiple layers of spiraled high tensile steel cable; <b>Cover:</b> Type C4 (Modified Nitrile); <b>Couplings:</b> Built-in or Swaged ; <b>Flexible Specification Level:</b> FSL 0; <b>Approvals Standards:</b> API 7K ABS, DNV	2-1/2" - 4"	(-20°C to +82°C) (-4°F to +180°F)
		2-1/2" - 4"	(-20°C to +82°C) (-4°F to +180°F)
	<b>Tube:</b> Type C3 (Modified Nitrile); <b>Reinforcement:</b> Multiple layers of spiraled high tensile steel cable; <b>Cover:</b> Type C4 (Modified Nitrile); <b>Couplings:</b> Built-in or Swaged Couplings; <b>Flexible Specification Level:</b> FSL 1; <b>Approvals Standards:</b> API 7K ABS, DNV	2-1/2" - 3"	(-20°C to +100°C) (-4°F to +212°F)
	<b>Tube:</b> Type V (Fluoroelastomer); <b>Reinforcement:</b> Multiple layers of textile fabric and steel cable; <b>Cover:</b> Type C4 (Modified Nitrile); <b>Couplings:</b> Swaged Couplings; <b>Approvals Standards:</b> NACE MR0175, Lloyds OD/1000/499, ABS, DNV	2-1/2" - 4"	(-30°C to +93°C) (-20°F to +200°F)
		2-1/2" - 3-1/2"	(-30°C to +93°C) (-20°F to +200°F)
	<b>Tube:</b> Type V (Fluoroelastomer); <b>Reinforcement:</b> Multiple layers of textile fabric and steel cable; <b>Cover:</b> Type C4 (Modified Nitrile); <b>Couplings:</b> Swaged Couplings; <b>Approvals Standards:</b> NACE MR0175, Lloyds OD/1000/499, ABS, DNV	2-1/2" - 4"	(-20°C to +93°C) (-4°F to +200°F)
		2-1/2" - 3-1/2"	(-20°C to +93°C) (-4°F to +200°F)
	<b>Tube:</b> Type V (Fluoroelastomer); <b>Reinforcement:</b> Multiple layers of textile fabric and steel cable; <b>Cover:</b> Type C4 (Modified Nitrile); <b>Couplings:</b> Built-in Couplings; <b>Approvals Standards:</b> NACE MR0175, Lloyds OD/1000/499, ABS, DNV	2-1/2" - 3"	(-20°C to +93°C) (-4°F to +200°F)
	<b>Tube:</b> Stainless Steel Stripwound and HNBR; <b>Reinforcement:</b> Multiple layers of textile fabric and steel cable; <b>Cover:</b> PCR; <b>Flexible Specification Level:</b> FSL 3; <b>Approvals Standards:</b> API 16C, NACE MR0175, ISO 47693, ABS, DNV	2" - 3"	(-25°C to +100°C) (-13°F to +212°F)
	<b>Tube:</b> Type V (Fluoroelastomer); <b>Reinforcement:</b> Multiple layers of textile fabric and steel cable; <b>Cover:</b> Type C4 (Modified Nitrile); <b>Couplings:</b> Swaged Couplings and Built-in Couplings available. ; <b>Flexible Specification Level:</b> FSL 1; <b>Approvals Standards:</b> API 7K, NACE MR0175, ABS, DNV	2-1/2" - 4"	(-20°C to +93°C) (-4°F to +200°F)
		2-1/2" - 4"	(-20°C to +93°C) (-4°F to +200°F)
	<b>Tube:</b> Black Nitrile Rubber and Type C3 (Modified Nitrile); <b>Reinforcement:</b> Multiple layers of textile fabric and steel cable; <b>Cover:</b> PCR and Type C4 (Modified Nitrile); <b>Couplings:</b> Swaged Couplings and Built-in Couplings available.; <b>Flexible Specification Level:</b> FSL 2; <b>Approvals Standards:</b> API 7K, ABS, DNV	2-1/2" - 5"	(-25°C to +100°C) (-13°F to +212°F)
		2-1/2" - 5"	(-25°C to +100°C) (-13°F to +212°F)
	<b>Tube:</b> Black Nitrile Rubber and Type C3 (Modified Nitrile); <b>Reinforcement:</b> Multiple layers of textile fabric and steel cable; <b>Cover:</b> PCR and Type C4 (Modified Nitrile); <b>Couplings:</b> Swaged Couplings and Built-in Couplings available.; <b>Flexible Specification Level:</b> FSL 0; <b>Approvals Standards:</b> API 7K, ABS, DNV	2" - 3"	(-25°C to +100°C) (-13°F to +212°F)
	<b>Tube:</b> Type C3 (Modified Nitrile); <b>Reinforcement:</b> Multiple layers of textile fabric cords, steel cables and special rubber materials; <b>Cover:</b> UltraBration (Nitrile); <b>Couplings:</b> Swaged Couplings; <b>Flexible Specification Level:</b> FSL 1; <b>Approvals Standards:</b> API 7K, ABS, DNV	3" - 3-1/2"	(-28°C to +100°C) (-20°F to +212°F)
	<b>Tube:</b> Type C5 (Modified Nitrile); <b>Reinforcement:</b> Multiple layers of textile fabric and steel cable; <b>Cover:</b> Type A4 (Chloroprene); <b>Couplings:</b> Swaged Couplings; <b>Flexible Specification Level:</b> FSL 2; <b>Approvals Standards:</b> API 7K, ABS, DNV	2-1/2" - 4"	(-40°C to +82°C) (-40°F to +180°F)
		4"	(-40°C to +82°C) (-40°F to +180°F)
	<b>Tube:</b> Type C (Nitrile) ARPM (Class A) High Oil Resistant <b>Tube;</b> <b>Reinforcement:</b> High tensile steel wire; <b>Cover:</b> Type C2 (Modified Nitrile) All sizes are perforated MSHA 2G-IC 11C Flame Resistant Cover; <b>Couplings:</b> Crimped Couplings; <b>Approvals Standards:</b> MSHA, SAE 100R2, ABS, DNV	1" - 4"	(-40°C to +82°C) (-40°F to +180°F)

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