



DRIVEN BY POSSIBILITY™

BLACK GOLD®

OIL & GAS API 7K FSL 1 & 2 HOSE PRODUCTS

HIGH PRESSURE MUD HOSE WITH PREMIUM CRIMP COUPLINGS

ROTARY DRILLING, VIBRATOR AND MUD DELIVERY HOSES.

Gates has developed a family of high-pressure hoses with crimp connections to meet API 7K FSL 1 and FSL 2 performance criteria. The hoses are mandrel built-in continuous lengths up to 62 metres and fully vulcanised to form a fully crimped hose assembly offering excellent flexibility. Our product range covers pressures up to 7500psi and bore size up to 4".

Applications include Rotary Drilling, Mud and Well Services.

PRODUCED TO THE HIGHEST INDUSTRY PERFORMANCE STANDARD

- API 7K
- FSL 1 & FSL 2
- Grade D 5000 psi (345 bar) Working Pressure
- Grade E 7500 psi (517 bar) Working Pressure
- Global Availability





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NEXT GENERATION HOSE BODIES

Incorporating proprietary designs and materials these new hose bodies are lighter, more flexible and more durable than legacy Gates hose bodies.

Long length bulk hose is cost effective to manufacture and leveraging the cut and couple principle can be assembled in any of the Gates field assembly facilities

PREMIUM CRIMP COUPLINGS

The crimped couplings can be installed using the cut and couple principle in any of the Gates field assembly facilities

Crimp Couplings can be integrally machined with no welding required.



PRODUCT SPECIFICATIONS

RECOMMENDED FOR	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. Meets the severe demands of today's drilling methods including directional drilling, pressure pulses and elevated temperatures.
TEMPERATURE	Temperature Range II: -20 °C to +100 °C (-4 °F to +212 °F),
CONSTRUCTION	TUBE: NBR Black Rubber and HNBR Black Rubber (Only for 3" & 3.5" Grade D FSL 1 Hoses) REINFORCEMENT: High strength steel cords and rubberized textile plies COVER: PCR Black Synthetic rubber consisting of chloroprene rubber which is an anti-flaming, wear resistant, ozone ageing and ultraviolet light resistant material applicable to marine environments.
COUPLINGS	Crimp Couplings. Contact Gates E&S for a full range of fitting options such as hammer unions, flanges, hubs, etc.
PACKAGING	Finished assemblies are packaged in heavy-duty wooden crates or pallets. Heat Treated packaging available upon request for an additional fee.
OPTIONS	Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance and 3rd party witness tests are available for an additional fee.
STANDARDS	API Spec 7K FSL 1 & FSL 2.



INNER DIAM.		OUTER DIAM.		API GRADE	FSL TYPE	WORKING PRESSURE		TEST PRESSURE		SAFETY FACTOR	MIN BURST PRESSURE		MBR OPERATIONAL	WEIGHT
INCH	MM	INCH	MM			PSI	BAR	PSI	BAR		PSI	BAR		
2"	50.8	3.7"	93	D	FSL 1&2	5,000	345	7,500	517	2.5	12,500	862	0.9	11.3
2.5"	63.5	4.1"	104	D	FSL 1&2	5,000	345	7,500	517	2.5	12,500	862	0.9	13.2
3"	76.2	4.8"	122	D	FSL 1&2	5,000	345	7,500	517	2.5	12,500	862	1.2	18.1
3.5"	88.9	5.3"	134	D	FSL 1&2	5,000	345	7,500	517	2.5	12,500	862	1.4	20.4
3"	76.2	5.6"	142	E	FSL 1&2	7,500	517	11,250	775	2.5	18,750	1,292	1.2	34.9
3.5"	88.9	6.1"	154	E	FSL 1&2	7,500	517	11,250	775	2.5	18,750	1,292	1.2	38.8
4"	101.6	6.7"	170	E	FSL 1&2	7,500	517	11,250	775	2.5	18,750	1,292	1.3	44.2

For in-depth technical support, contact

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