



DRIVEN BY POSSIBILITY™



MEGASYS™ HOSES AND COUPLINGS

SUPERIOR PERFORMANCE AND VALUE



GATES MEGASYS PROVIDES NEXT-LEVEL PERFORMANCE THAT IS ENGINEERED TO MAXIMISE UPTIME AND BOOST YOUR PRODUCTIVITY

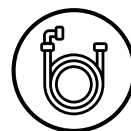
As advanced hydraulic systems are designed and engineered into more and more high-powered, high-pressure equipment, the importance of high-quality, flexible, durable hose assemblies that won't fail prematurely has never been more critical. Gates MegaSys hydraulic hose and coupling products offer an integrated solution to combination of technology and performance.



Superior performance



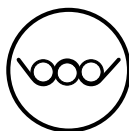
Easy installation



Simple hose selection



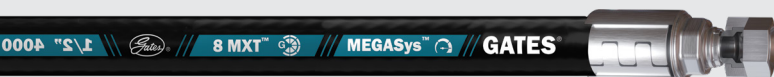
Broad assortment of sizes and pressures



High flexibility



Low total cost of ownership (TCO)



WIRE-BRAID HOSE FAMILIES

MXT™, M3K, M4K, M5K, M6K, M2T

- Braided high-tensile steel wire
- Nitrile tube compatible with biodegradable hydraulic fluids
- Qualified to industry-leading 600,000 cycles
- Temperature range: -40°C to +100°C (-40°F to +212°F)
High/Low temperature versions available
- Available with different covers to address abrasion and ozone resistance requirements

SPIRAL-WIRE & XPIRAL™ HOSE FAMILIES

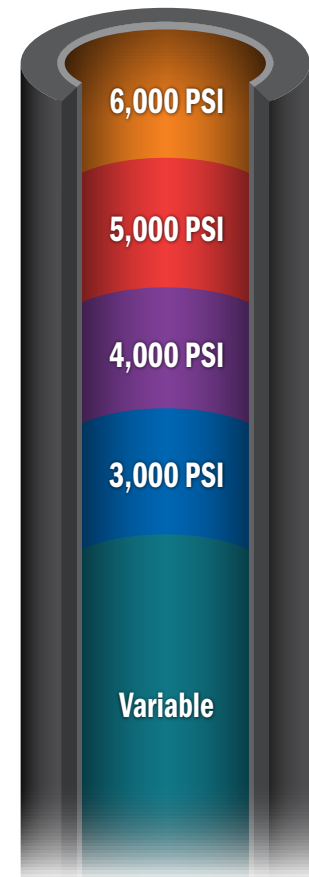
MXG™ 4K-XTP, MXG™ 5K-XTP, EFG3K, EFG4K, EFG5K, EFG6K

- Four or six alternating layers of spiraled, high-tensile steel wire. MXG uses the patented Xpiral construction
- Nitrile tube compatible with biodegradable hydraulic fluids
- Qualified to industry-leading 1,000,000 impulse cycles (16MXG 5K is rated to ISO 18752 350CC)
- Temperature range: -40°C to +121°C (-40°F to +250°F)
Low temperature versions available
- MXG series comes standard with XtraTuff™ Plus cover. EFG series hoses are available with different covers to address abrasion and ozone resistance requirements





GATES MEGASYS HOSE PRESSURE COLOUR KEY



PERFORMANCE SPECIFICATIONS

Gates MegaSys hoses offer a broad assortment of sizes and pressures. They exceed or meet performance specifications of SAE, EN, ISO and are all MSHA approved.

WORKING PRESSURE			PRODUCT	INTERNATIONAL STANDARDS			MARINE TYPE APPROVALS			
Constant/ Variable	psi	MPa		EN	SAE	ISO	DNV	LR	BV	ABS
Constant Pressure	6,000	42	EFG6K	EN 856 4SP (-8 to -20) EN 486SH (-16 to -32)	SAE 100R15	ISO 3862 R15 ISO 18752 420CC	•	•	•	•
			M6K	EN 857 2SC		ISO 18752 420BC	•	•	•	
	5,000	35	MXG5K-XTP	EN 856 R13 (-12 and -16) EN 856 4SP (-10 and -12)	SAE 100R13	ISO 18752 350DC (-6 to -12) ISO 18752 350CC (-16) ISO 3862 R13	•	•	•	•
			EFG5K	EN 856 R13 EN 856 4SP (-10 to -32) EN 856 4SH (-20 to -32)	SAE 100R13	ISO 3862 R13 ISO 18752 350DC (except -24)	•	•	•	•
			M5K			ISO 18752 350BC	•	•	•	
	4,000	28	MXG4K-XTP	EN 856 R12 EN 856 4SP (-16)	SAE 100R19 SAE 100R12	ISO 3862 R12 ISO 18752 280DC	•	•	•	•
			EFG4K	EN 856 R12 EN 856 4SP (-16 and -20)	SAE 100R12	ISO 3862 R12 ISO 18752 280DC	•	•	•	•
			M4K	EN 857 2SC	SAE 100R19	ISO 11237 R19 ISO 18752 280BC	•	•	•	•
	3,000	21	EFG3K	EN 856 R12 EN 856 4SP	SAE 100R12	ISO 3862 R12 ISO 18752 210DC	•	•	•	•
		22.5	M3K	EN 857 1SC EN 857 2SC	SAE 100R17	ISO 11237 R17 ISO 18750 210BC	•	•	•	•
Variable Pressure			MXT	EN 857 2SC EN 853 2SN	SAE 100R16 SAE 100R17 (-4 to -12) SAE 100R2 SAE 100R19 (-4 to -8)	ISO 11237 R16 ISO 1436 2SN R2	•	•	•	•
			M2T	EN 857 2SC EN 853 2SN	SAE 100R16 SAE 100R2	ISO 11237 R16 ISO 1436 2SN R2	•	•	•	•

GATES MEGASYS LATEST INNOVATION

ADVANCED PERFORMANCE. EASIER
INSTALLATION. LESS WEIGHT. STREAMLINED
SELECTION.

INNOVATIVE XPIRAL CONSTRUCTION

MXG 5K-XTP

- Comes with our latest material breakthrough, it is engineered for exceptional durability, excellent flexibility and lower force-to-bend for faster and more ergonomic installation
- Utilises both Gates GS GlobalSpiral couplings (all sizes) and G MegaCrimp couplings (size -6 and -8)
- Temperature: -40 °C to +121 °C (-40 °F to +250 °F)
- Exceeds all criteria of ISO 18752 350DC (size 16 is qualified for ISO 18752 350CC) and performance criteria of SAE 100R13, EN856 R13 and ISO 3862 R13. Sizes -10 and -12 also rated per EN 856 4SP
- With XtraTuff Plus cover, for abrasion and ozone resistance, MSHA approved

SIZE	I.D.		O.D.		WORKING PRESSURE		BURST PRESSURE		MBR	WEIGHT	COUPLINGS
	mm	in	mm	in	MPa	psi	MPa	psi	mm	kg/100m	
-6	10	3/8	18.0	0.71	35	5,075	140	20,300	65	43.8	GlobalSpiral; MegaCrimp
-8	12	1/2	21.6	0.85	35	5,075	140	20,300	90	61.0	GlobalSpiral; MegaCrimp
-10	16	5/8	26.1	1.03	35	5,075	140	20,300	100	88.3	GlobalSpiral
-12	19	3/4	29.6	1.16	35	5,075	140	20,300	120	107.0	GlobalSpiral
-16	25	1	38.7	1.52	35	5,075	140	20,300	150	184.0	GlobalSpiral

MXG 4K-XTP

- Exceeds the performance of wire spiral constructions, but with the lower weight and flexibility, meeting even tougher industrial and mobile equipment requirements
- Utilises both Gates GS GlobalSpiral couplings (all sizes, 1,000,000 cycle impulse rating) and G MegaCrimp couplings (size -6 to -12, 600,000 cycle impulse rating)
- Temperature: -40 °C to +121 °C (-40 °F to +250 °F)
- Exceeds all criteria of ISO 18752 280DC, SAE 100R19 and exceeds performance criteria of SAE 100R12, EN 856 R12, and ISO 3862 R12. 16 MXG 4K exceeds performance requirements of EN 865 4SP
- With XtraTuff Plus cover, for abrasion and ozone resistance, MSHA approved

SIZE	I.D.		O.D.		WORKING PRESSURE		BURST PRESSURE		MBR	WEIGHT	COUPLINGS
	mm	in	mm	in	MPa	psi	MPa	psi	mm	kg/100m	
-6	10	3/8	17.7	0.70	28	4,060	112	16,000	65	38	GlobalSpiral; MegaCrimp
-8	12	1/2	20.7	0.82	28	4,060	112	16,000	90	52	GlobalSpiral; MegaCrimp
-10	16	5/8	25.2	0.99	28	4,060	112	16,000	100	69	GlobalSpiral; MegaCrimp
-12	19	3/4	28.9	1.14	28	4,060	112	16,000	120	95	GlobalSpiral; MegaCrimp
-16	25	1	38.0	1.50	28	4,060	112	16,000	150	157	GlobalSpiral

INNOVATIVE WIRE BRAID CONSTRUCTION MXT, MXT-XTP

Designed to address our customers’ evolving application challenges, MXT is a universally applicable premium product. lighter, stronger, and more flexible, its diversified application allows you to consolidate inventory while giving you exactly the hose you need, when you need it.

- Meets all criteria of SAE 100R16, SAE 100R17 (-4 to -12) and meets performance criteria of SAE 100R2, SAE 100R19 (-4 to -8), EN 853 2SN and EN 857 2SC
- Temperature: -40 °C to +100 °C (-40 °F to +212 °F)
- Superior flex impulse performance: qualified to 600,000 impulse cycles, which is 3 times the impulse criteria of industry standard
- Standard cover or XtraTuff Plus cover, MSHA approved



SIZE	I.D.		O.D.		WORKING PRESSURE		BURST PRESSURE		MBR	WEIGHT	COUPLINGS
	mm	in	mm	in	MPa	psi	MPa	psi	mm	kg/100m	
-4	6	1/4	14.0	0.56	42.0	6,000	168	24,000	40	30	MegaCrimp
-5	8	5/16	15.2	0.60	38.0	5,500	152	22,000	45	33	MegaCrimp
-6	10	3/8	17.1	0.68	33.0	4,800	132	19,200	65	39	MegaCrimp
-8	12	1/2	20.2	0.80	28.0	4,000	112	16,000	70	46	MegaCrimp
-10	16	5/8	24.0	0.95	25.0	3,625	100	14,500	75	57	MegaCrimp
-12	19	3/4	27.4	1.08	21.5	3,100	86	12,400	120	70	MegaCrimp
-16	25	1	35.1	1.38	16.5	2,400	66	9,600	150	100	MegaCrimp

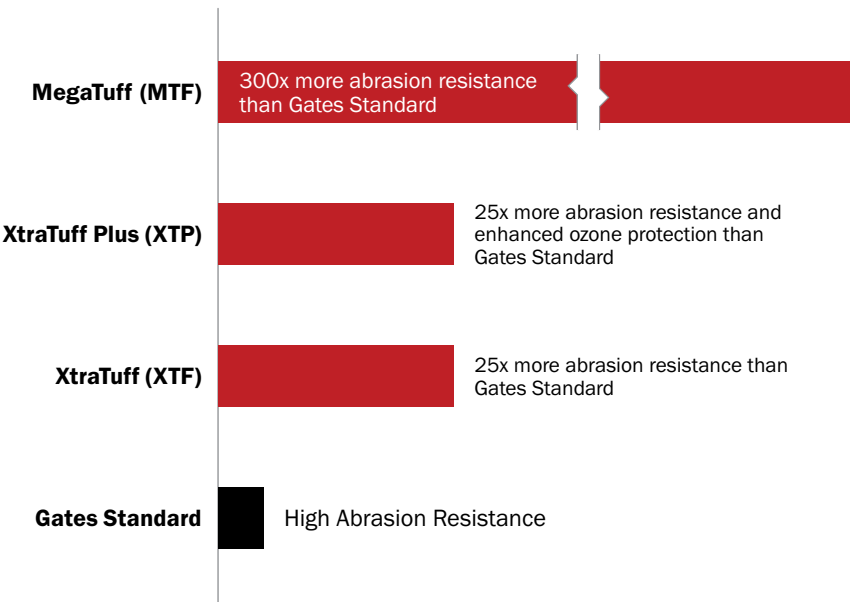


MEGATUFF™ AND XTRATUFF COVERS

Nothing is harder on hydraulic hose covers than constant abrasion. Rubbed against metal or other hose, most standard hydraulic hoses – even ones with spring guards or nylon sleeving – can’t take the punishment.

Our hose cover options utilise modern cover extrusion process technologies and compounds formulated specifically for both abrasion resistance and ozone resistance. Gates innovative material science protects the hose from damage in extreme hydraulics applications. Historically, Gates leads the pack in establishing engineering specs, and hose covers are no exception.

ABRASION RESISTANCE COMPARISON



GATES XTRATUFF (AND XTRATUFF PLUS)

Made of special hybrid compounds, Gates XtraTuff covers are versatile, flexible and easy to manage

- Reducing impact of environmental hazards
- Lowering hose replacement downtime
- Eliminating the need for costly hose protectors

8 MXT™ XTP XtraTuff™ Plus 

GATES MEGATUFF

Gates MegaTuff hoses are exceptionally resistant to abrasion and ozone. The specially-bonded cover stays put and won't peel as some competitive hose covers do

- Maintain their flexibility and minimum bend radius
- Resistant to oil, ozone and UV rays
- Tested to 1,000,000 abrasion cycles without failure

16EFG5K-MTF MegaTuff™ 

MEGACRIMP & GLOBALSPIRAL™ COUPLINGS

TWO FAMILIES. COMPLETE COVERAGE.

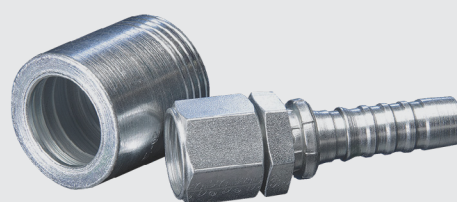
The hose-coupling interface is key to high performance of assemblies and safe hydraulics. From selecting the parts to the final crimp O.D., and everything in between, the interface is essential to keep equipment running and workers safe. Gates believes in safe, reliable, foolproof components that mitigate the risk associated with high-pressure hydraulics. Gates hose, couplings and crimpers are qualified as a system so you can get OE-quality assemblies in the factory or the field.



MegaCrimp Couplings **The Versatile, “No-Weep” Coupling** **with the Patented “C” Insert**

MegaCrimp is a one-piece coupling that offers a weep free C-insert design, full insertion indication, low insertion force, and doesn't require skiving. The “C” insert allows usage with different hose constructions and wall thicknesses. In addition, the C-insert ensures an even distribution of crimping forces to form a concentric seal. That simplifies your inventory requirements since one size can accommodate many different hose ODs, on both one- and two-wire braid hoses.

MegaCrimp couplings are tested to 600,000 impulse cycles, proving its high performance and maximum service life. MegaCrimp couplings are fully qualified for SAE, EN, and ISO performance.



GlobalSpiral Couplings **No-Skive Convenience,** **Reduced Inventory**

GlobalSpiral couplings are specially engineered to provide superior performance for extreme high pressure, high-impulse spiral-wire hydraulic hose applications. They can be used with all Gates MegaSys Xpiral, four- and six-spiral wire hose up to 42MPa (6,000psi).

The innovative, two-piece, no-skive design reduces assembly time, labor, fabrication errors and contamination of the fluid power system. The work area stays clean, and the odors, dust, and fire hazard normally created by skiving are eliminated. In addition, the two-piece design reduces parts inventory by 30 percent because only one stem is required for all spiral-wire hose types.

COUPLING/FERRULE SELECTION TABLE*

HOSE	SIZE DASH	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
	I.D. MM	DN 6	DN 8	DN 10	DN 12	DN 16	DN 19	DN 25	DN 31	DN 38	DN 51
	ID INCH	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
MXG 4K	STEM			GS	GS	GS	GS	GS			
	FERRULE	-	-	GS1F-2	GS1F-2	GS1F-2	GS1F-2	GS1F-4	-	-	-
	ONE-PIECE DESIGN			G	G	G	G	-			
MXG 5K	STEM			GS	GS	GS 10	GS	GS1F-4			
	FERRULE	-	-	GS1F-2	GS1F-2	GS1F-4	GS1F-2	GS1F-4	-	-	-
	ONE-PIECE DESIGN			G	G	-	-	-			
MX7	ONE-PIECE DESIGN	G	G	G	G	G	G	G	-	-	-
M2T	ONE-PIECE DESIGN	G	G	G	G	G	G	G	G	G	G
EFG3K	STEM	-	-	-	-	-	-	-	GS	GSP	GSP
	FERRULE								GS1F-4	GS1F-4	GS1F-4
EFG4K	STEM	-	-	GS	GS	GS	GS	GS	GS	-	-
	FERRULE			GS1F-4	GS1F-4	GS1F-4	GS1F-4	GS1F-4	GS1F-4		
EFG5K	STEM	-	-	GS	GS	GS	GS	GS	GS	GSM	GSM
	FERRULE			GS1F-4	GS1F-4	GS1F-4	GS1F-4	GS1F-4	GS1F-4		
EFG6K	STEM	-	-	GS	GS	GS	GS	GS	GS	GSM	GSM
	FERRULE			GS1F-4	GS1F-4	GS1F-4	GS1F-4	GS1F-4	GS1F-4		
M3K	ONE-PIECE DESIGN	G	G	G	G	G	G	G	-	-	-
M4K	ONE-PIECE DESIGN	G	G	G	G	G	G				
M5K	ONE-PIECE DESIGN	G	G	G	G	-	-	-	-	-	-
M6K	ONE-PIECE DESIGN	G	-	-	-	-	-	-	-	-	-

*Please find crimp data on ecrimp.gates.com or the eCrimp™ mobile app



BUILT FOR HIGH-PRESSURE SITUATIONS

GATES ECRIMP™ MOBILE APP

Available for iPhone and Android, allows users to identify unknown couplings and adapters through a series of simple questions. The app can be downloaded for free on iOS and Android using these QR codes.

Using advancements in Gates R&D, we leveled up our Gates Integrated System Approach including all components of the MegaSys hose and coupling family to meet ever-tougher industrial and mobile equipment requirements.



SEE GATESAUSTRALIA.COM.AU FOR ADDITIONAL PRODUCTS FROM GATES

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