

Handle
Tighter
Bends



- Tighter bend radius • High pressure • New layline • Exceeds SAE 100R19 and ISO 11237 R19
- Replaces M4K+ Mega4000 hose

NEW M4K MEGA4000® HOSE

megaSYS®





IT BENDS AND BENDS – AND NOW BENDS SOME MORE

Gates M4K+ Mega4000 wire-braid hose has a long history of outstanding performance and value in high-pressure hydraulic applications on equipment in agriculture, construction, mining, energy and marine operations. And now, this flexible, durable, reliable hose is even better.

Gates new, harder-working M4K Mega4000 hose replaces the old M4K+ hose and offers these improvements:

- Tighter bend radius – a 25 percent improvement over SAE 100R19 specifications and 62.5 percent over SAE 100R1 and SAE 100R2
- Improved color-coded layline for easy hose identification – in service or in stock

As part of Gates innovative MegaSys product line, the new M4K Mega4000 hose provides a range of benefits:

- Simplifies hose selection with constant pressure rating through all sizes
- Saves overall hose assembly length
- Facilitates easier routing in tight applications
- Requires fewer bent tube fittings
- Eases installation with higher flexibility
- Extends life in bending, flexing and impulse applications
- Lowers inventory requirements
- Tested at 133% working pressure, 25% tighter than SAE 100R19 bend radius, 212°F (100°C), 600,000 cycles
- Available with abrasion-resistant XtraTuff™ or MegaTuff® covers
- Reduces costs up to 41 percent



Tube: Black, oil resistant, synthetic rubber (Nitrile – Type C).

Available with unique abrasion-resistant MegaTuff® or XtraTuff™ cover.

Reinforcement: Two braids of high-tensile steel wire.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

Cover: Black, synthetic rubber (Modified Nitrile – Type C₂), resists abrasion, oil, weather, ozone.

Couplings: MegaCrimp® couplings or GlobalSpiral™ couplings.

M4K MEGA4000® HOSE

Description	I.D.		O.D.		Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	
	(in.)	(mm)	(in.)	(mm)	(psi)	(MPa)	(psi)	(MPa)	(in.)	(mm)
4M4K	1/4	6.3	0.54	12.2	4,000	28.0	16,000	110.0	1.5	38.1
5M4K	5/16	7.9	0.61	15.1	4,000	28.0	16,000	110.0	1.8	45.7
6M4K	3/8	9.5	0.69	16.0	4,000	28.0	16,000	110.0	2.0	50.8
8M4K	1/2	12.5	0.86	20.2	4,000	28.0	16,000	110.0	2.8	71.1
10M4K	5/8	15.9	0.98	25.2	4,000	28.0	16,000	110.0	3.0	76.2
12M4K	3/4	19.1	1.14	29.1	4,000	28.0	16,000	110.0	3.8	96.5
16M4K	1	25.4	1.52	37.6	4,000	28.0	16,000	110.0	4.5	114.3

M4K MEGA4000® HOSE – MEGATUFF® COVER

Description	I.D.		O.D.		Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	
	(in.)	(mm)	(in.)	(mm)	(psi)	(MPa)	(psi)	(MPa)	(in.)	(mm)
4M4K-MTF	1/4	6.3	0.48	12.2	4,000	28.0	16,000	110.0	1.5	38.1
5M4K-MTF	5/16	7.9	0.60	15.1	4,000	28.0	16,000	110.0	1.8	45.7
6M4K-MTF	3/8	9.5	0.63	16.0	4,000	28.0	16,000	110.0	2.0	50.8
8M4K-MTF	1/2	12.5	0.80	20.2	4,000	28.0	16,000	110.0	2.8	71.1
10M4K-MTF	5/8	15.9	0.99	25.2	4,000	28.0	16,000	110.0	3.0	76.2
12M4K-MTF	3/4	19.1	1.15	29.1	4,000	28.0	16,000	110.0	3.8	96.5
16M4K-MTF	1	25.4	1.56	37.6	4,000	28.0	16,000	110.0	4.5	114.3



MPa (4000 PSI) 5/8" (15.9 mm) ISO11237 R19 / SAE 100R19 **M4K** Flame Resistant MSHA 2G-11C

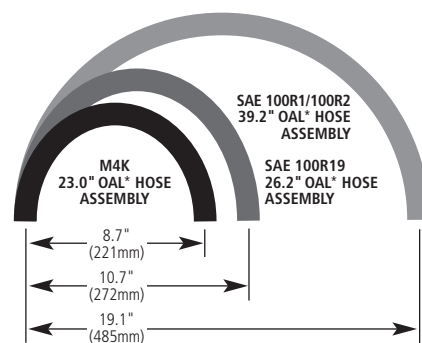
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M4K MEGA4000® HOSE – XTRATUFF™ COVER

Description	I.D. (in.)	(mm)	O.D. (in.)	(mm)	Max. Working Pressure (psi) (MPa)		Min. Burst Pressure (psi) (MPa)		Min. Bend Radius (in.) (mm)	
4M4K-XTF	1/4	6.3	0.48	12.2	4,000	28.0	16,000	110.0	1.5	38.1
5M4K-XTF	5/16	7.9	0.60	15.1	4,000	28.0	16,000	110.0	1.8	45.7
6M4K-XTF	3/8	9.5	0.63	16.0	4,000	28.0	16,000	110.0	2.0	50.8
8M4K-XTF	1/2	12.5	0.80	20.2	4,000	28.0	16,000	110.0	2.8	71.1
10M4K-XTF	5/8	15.9	0.99	25.2	4,000	28.0	16,000	110.0	3.0	76.2
12M4K-XTF	3/4	19.1	1.15	29.1	4,000	28.0	16,000	110.0	3.8	96.5
16M4K-XTF	1	25.4	1.56	37.6	4,000	28.0	16,000	110.0	4.5	114.3

GATES M4K MEGASYS HOSE BEND RADIUS COMPARISON

Hose I.D. (in.) (mm)		SAE 100R1/100R2 (in.) (mm)		SAE 100R19 (in.) (mm)		Old M4K+ (in.) (mm)		New M4K (in.) (mm)	
1/4	6.3	4.0	101.6	2.0	50.8	2.0	50.8	1.5	38.1
5/16	7.9	4.5	114.3	2.3	58.4	2.3	58.4	1.8	45.7
3/8	9.5	5.0	127.0	2.5	63.5	2.5	63.5	2.0	50.8
1/2	12.5	7.0	177.8	3.5	88.9	3.5	88.9	2.8	71.1
5/8	15.9	8.0	203.2	4.0	101.6	4.0	101.6	3.0	76.2
3/4	19.1	9.0	228.6	4.8	114.3	4.8	114.3	3.8	96.5
1	25.4	12.0	304.8	–	–	6.0	152.4	4.5	114.3



Reduced Bend Radius Capability per SAE Specification

Illustration of 12M4K hose flexibility and reduced hose length

*Overall Assembly Length



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