

Beyond the Limits



- Higher pressure • Tighter bend • New layline • Exceeds SAE 100R17 and ISO 11237 R17

M3K MEGA3000® HOSE

megaSYS®





AN INNOVATIVE GATES MEGASYS® CONSTANT PRESSURE HOSE GETS EVEN BETTER

Gates M3K Mega3000 wire-braid hose was historically rated to SAE 100R17 standards. In fact, the SAE 100R17 specification was published almost five years *after* Gates introduced the M3K hose to the market – a testimony to Gates hydraulic hose leadership. But that's history. Today's new, harder-working M3K Mega3000 hose offers a higher level of performance and a whole new look.

- Increased working pressure rating – 3,250 psi (22.5 MPa)
- Increased burst pressure rating for improved safety factor – 13,000 psi (90.0 MPa)
- Tighter bend radius – a 25 percent improvement over SAE 100R17 specifications
- Improved layline for easy hose identification – in service or in stock

As part of Gates innovative MegaSys product line, the new M3K Mega3000 hose offers a range of benefits to users operating a wide range of equipment in agriculture, construction, mining and industrial operations:

- 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
- Lowers inventory requirements
- Tested at 133% working pressure, 1/3 SAE 100R1 bend radius, 212°F (100°C), 600,000 cycles
- Extends life in bending, flexing and impulse applications
- Available with abrasion-resistant XtraTuff™ or MegaTuff® covers
- Reduces costs by as much as 64 percent



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

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

Reinforcement: Braided, high-tensile steel wire; 3/16" thru 1/2" have one braid, 5/8" thru 1" have two braids.

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, PowerCrimp® couplings for 3/16" hoses.

M3K MEGA3000® HOSE

Description	I.D. (in.)	(mm)	O.D. (in.)	(mm)	Max. Working Pressure (psi)	(MPa)	Min. Burst Pressure (psi)	(MPa)	Min. Bend Radius (in.)	(mm)
3M3K	3/16	4.8	0.43	10.8	3,250	22.5	13,000	90.0	1.3	33.0
4M3K	1/4	6.3	0.48	12.2	3,250	22.5	13,000	90.0	1.5	38.1
5M3K	5/16	7.9	0.60	15.1	3,250	22.5	13,000	90.0	1.8	45.7
6M3K	3/8	9.5	0.63	16.0	3,250	22.5	13,000	90.0	2.0	50.8
8M3K	1/2	12.5	0.80	20.2	3,250	22.5	13,000	90.0	2.8	71.1
10M3K	5/8	15.9	0.99	25.2	3,250	22.5	13,000	90.0	3.0	76.2
12M3K	3/4	19.1	1.15	29.1	3,250	22.5	13,000	90.0	3.8	96.5
16M3K	1	25.4	1.56	37.6	3,250	22.5	13,000	90.0	4.5	114.3

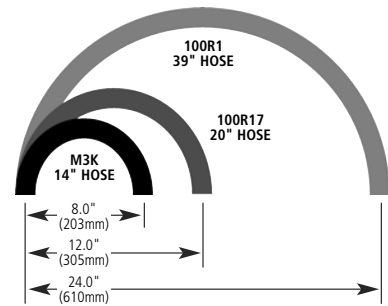
M3K MEGA3000® HOSE – MEGATUFF® COVER

Description	I.D. (in.)	(mm)	O.D. (in.)	(mm)	Max. Working Pressure (psi)	(MPa)	Min. Burst Pressure (psi)	(MPa)	Min. Bend Radius (in.)	(mm)
4M3K-MTF	1/4	6.3	0.48	12.2	3,250	22.5	13,000	90.0	1.5	38.1
5M3K-MTF	5/16	7.9	0.60	15.1	3,250	22.5	13,000	90.0	1.8	45.7
6M3K-MTF	3/8	9.5	0.63	16.0	3,250	22.5	13,000	90.0	2.0	50.8
8M3K-MTF	1/2	12.5	0.80	20.2	3,250	22.5	13,000	90.0	2.8	71.1
10M3K-MTF	5/8	15.9	0.99	25.2	3,250	22.5	13,000	90.0	3.0	76.2
12M3K-MTF	3/4	19.1	1.15	29.1	3,250	22.5	13,000	90.0	3.8	96.5
16M3K-MTF	1	25.4	1.56	37.6	3,250	22.5	13,000	90.0	4.5	114.3



M3K MEGA3000® HOSE – XTRATUFF™ 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)
3M3K-XTF	3/16	4.8	0.43	10.8	3,250	22.5	13,000	90.0	1.3	33.0
4M3K-XTF	1/4	6.3	0.48	12.2	3,250	22.5	13,000	90.0	1.5	38.1
5M3K-XTF	5/16	7.9	0.60	15.1	3,250	22.5	13,000	90.0	1.8	45.7
6M3K-XTF	3/8	9.5	0.63	16.0	3,250	22.5	13,000	90.0	2.0	50.8
8M3K-XTF	1/2	12.5	0.80	20.2	3,250	22.5	13,000	90.0	2.8	71.1
10M3K-XTF	5/8	15.9	0.99	25.2	3,250	22.5	13,000	90.0	3.0	76.2
12M3K-XTF	3/4	19.1	1.15	29.1	3,250	22.5	13,000	90.0	3.8	96.5
16M3K-XTF	1	25.4	1.56	37.6	3,250	22.5	13,000	90.0	4.5	114.3



Reduced Bend Radius Capability per SAE Specification
Illustration of 16M3K hose flexibility and reduced hose length

M3K PERFORMANCE COMPARISONS

WORKING PRESSURE

Hose I.D.	SAE 100R1	SAE 100R17	Old M3K	New M3K
(in.) (mm)	(psi) (MPa)	(psi) (MPa)	(psi) (MPa)	(psi) (MPa)
3/16 4.8	3000 20.7	3000 20.7	3000 20.7	3250 22.5
1/4 6.3	2750 19.2	3000 20.7	3000 20.7	3250 22.5
5/16 7.9	2500 17.5	3000 20.7	3000 20.7	3250 22.5
3/8 9.5	2250 15.7	3000 20.7	3000 20.7	3250 22.5
1/2 12.5	2000 14.0	3000 20.7	3000 20.7	3250 22.5
5/8 15.9	1500 10.5	3000 20.7	3000 20.7	3250 22.5
3/4 19.1	1250 8.7	3000 20.7	3000 20.7	3250 22.5
1 25.4	1000 7.0	3000 20.7	3000 20.7	3250 22.5

BEND RADIUS

Hose I.D.	SAE 100R1	SAE 100R17	Old M3K	New M3K
(in.) (mm)	(in.) (mm)	(in.) (mm)	(in.) (mm)	(in.) (mm)
3/16 4.8	3.5 88.9	1.8 45.7	1.8 45.7	1.3 33.0
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	4.5 114.3	4.5 114.3	3.8 96.5
1 25.4	12.0 304.8	6.0 152.4	6.0 152.4	4.5 114.3



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POWERING PROGRESS

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