Multiple Applications.
One Solution.

Cut costs. Streamline workflow. Improve value.
The Gates and Kaman partnership provides your complete hydraulics solution.
Gates and Kaman Deliver Your Total Solution In One Package

Gates and Kaman have teamed-up to deliver the new standard in hydraulics. This partnership pairs Gates industry-leading fluid power products with the same reliable distribution network you have come to expect from Kaman.

Unlike competitors that use a “mix-and-match” approach, Gates offers an integrated system of hoses, couplings, equipment and accessories. And we control the entire manufacturing process, from raw materials to finished goods.

This cohesive system is now available at all Kaman locations. One of North America’s largest industrial distributors, Kaman offers local service at nearly 200 branches. Kaman account managers focus on the customer experience, tailoring solutions with a hands-on, personalized approach that’s unequalled in the field.

Get the combined strength of Gates and Kaman for all your hydraulic system needs. To learn more about how this new partnership benefits you, visit www.gates.com/kaman.

MegaSys® Pressure Matrix – SAE Specifications

<table>
<thead>
<tr>
<th>Pressure</th>
<th>-4</th>
<th>6</th>
<th>-8</th>
<th>-10</th>
<th>-12</th>
<th>-16</th>
<th>-20</th>
<th>-24</th>
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<tbody>
<tr>
<td>3000 PSI</td>
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</tbody>
</table>

Red: Exceeds SAE 100R1  
Green: Exceeds SAE 100R2  
Gold: Exceeds SAE 100R12  
Blue: Exceeds SAE 100R13  
Purple: Exceeds SAE 100R15  
M3K Exceeds SAE 100R17  
M4K Exceeds SAE 100R19
Spiral Wire Hydraulic Hoses

The Gates MegaSys® family of EnviroFluid® spiral wire hoses provides constant pressure with unparalleled strength and durability. Built with alternating layers of spiraled, high-tensile steel, EnviroFluid hoses are specially designed to handle biodegradable hydraulic fluids and aggressive oils like synthetic esters, polyglycols and vegetable oils. The hoses feature a nitrile tube that can manage fluids at operating temperatures up to 250°F without any loss of performance.

EnviroFluid spiral wire hoses can be bent to one-half the SAE bend radius for their respective sizes. The increased flexibility saves on assembly length, increasing the efficiency of the system and reducing material costs by as much as 47 percent.

- **EFG6K Spiral Wire Hose** – 6,000 psi working pressure. Meets SAE 100R15, EN 856 4SP and EN 856 4SH.
- **EFG5K Spiral Wire Hose** – 5,000 psi working pressure. Meets SAE 100R13, EN 856 4SP and EN 856 R13.
- **EFG4K Spiral Wire Hose** – 4,000 psi working pressure. Meets SAE 100R12, EN 856 R12 and EN 856 4SP.
- **EFG3K Spiral Wire Hose** – 3,000 psi working pressure. Meets SAE 100R15 and EN 856 4SH.
GlobalSpiral® Couplings

Specifically engineered for Gates spiral wire hydraulic hoses, GlobalSpiral® couplings offer a no-skive design for superior performance in extremely high-pressure, high-impulse applications. In tests, the durable, unleaded steel couplings exceed one million impulse cycles at 250°F without stress cracks developing in the hose tubing. “Bite-the-wire” style crimping produces maximum coupling retention. TuffCoat® plating provides red rust corrosion protection at more than 500 percent the SAE standard.

MegaCrimp® Couplings

Gates MegaCrimp® couplings work with the full range of Gates wire braid hydraulic hoses. The one-piece couplings feature a unique “C” insert for weep-free concentric crimping that keeps the coupling round, like the hose, with no polygon effect. Like GlobalSpiral, MegaCrimp couplings achieve maximum coupling retention through long-tooth, “bite the wire” crimping. TuffCoat plating provides red rust corrosion protection at more than 500 percent the SAE standard.

www.gates.com/kaman
For heavy-duty, high-impulse applications, the Gates MegaSys® family of wire braid hydraulic hoses provides constant pressure with maximum flexibility and leak prevention. Gates constructs these long-lasting, reinforced hoses from multiple braids of high-tensile steel wire. They come in a variety of sizes, pressures and temperature ranges.

MegaSys wire braid hoses can be bent to one-half SAE specifications. The additional flexibility reduces assembly length and lowers material costs.

**Global M6K Mega6000™ Hose** – 6,000 psi working pressure

**Global M5K Mega5000® Hose** – 5,000 psi working pressure

**Global M4K Mega4000® Hose** – 4,000 psi working pressure

**Global M3K Mega3000® Hose** – 3,000 psi working pressure

**M-XP™ Hydraulic Hose** – 4,000 psi working pressure tested at one million impulse cycles
Accessories

Gates offers a wide range of accessories to maximize the life of your assemblies.

**LifeGuard™ Line-of-Sight Sleeving System**
The first true protection in line-of-sight hydraulic applications, the LifeGuard™ system contains 6,000 psi bursts and 3,000 psi pinhole leaks at 212°F for up to five minutes. After redirecting the explosive force down the length of the hose, the double-layer LifeGuard sleeve disperses the energy and fluids at the ends of the hose via carefully designed channel clamps. Operators can quickly detect the hose failure from the leaking fluid without risking injury from a high-pressure blowout.

**HeatGuard™ Protective Hose Sheathing**
Built from tightly woven fiberglass on the inside and a specially compounded, heat-resistant silicone rubber cover on the outside, HeatGuard sheathing provides optimum hose protection in high-temperature environments. Ideal for use in welding areas, engine compartments, steel mills, construction sites and on oil rigs, HeatGuard sheathing protects critical assemblies from sparks, molten splash, heat and fire.

**MegaClean™ Hose Cleaning System**
Even new hoses contain small particles leftover from manufacturing that can cause contamination problems. The MegaClean™ hose and tube cleaning system injects pressurized launchers and foam particles into the hose to scrub it from the inside, removing even the most difficult contaminants.
In addition to our superior hose and coupling products, Gates provides state-of-the-art crimping equipment to help you improve productivity and accelerate your production environment.

**GC96™ Crimper**
Capable of crimping up to 2-inch hydraulic and 6-inch industrial hose, the GC96™ crimper provides leak-free, factory-quality assemblies for a wide range of applications. Operators can load Gates eCrimp settings and activate the crimper with an easy touch pad. The unit’s horizontal, front-end feeder makes crimping quick and easy. A three-phase inverter produces 220 volts for worldwide use.

**GC32-XD™ Crimper**
The easy-to-use, adjustable GC32-XD™ crimper works just about anywhere in the world, as it draws power from any grounded 15-20-amp circuit producing more than 208 volts. Using a patent-pending cloverleaf design, the crimper reinforces the piston, and the dies move smoothly and evenly to make a stronger, more consistent assembly with absolutely no taper in the crimp OD.
Training and Engineering Support

All of the fluid power products sold through the Gates and Kaman partnership are backed by the industry’s best training and engineering support.

The “Safe Hydraulics” training program prevents injuries, minimizes downtime and saves money. The free seminar helps customers identify the right parts for the right applications, and then implement them so that systems — and employees — stay on line and free from harm.

The Gates Customer Solutions Center creates application-specific solutions for target markets in Mining, Mobile Equipment, Marine and Oil and Gas. Through state-of-the-art value engineering and value analysis, we design custom systems to help customers operate more efficiently and successfully.