

# Quality Hydraulic and Industrial Hose Products

In any language,  
that means  
"Gates"



# Growing to Meet Our Customers' Demands

## Gates Fluid Power Global Product

**Definition:** Gates products will look the same, perform the same, and are the same regardless of where in the Gates world they are manufactured.

Gates has been answering the needs of the world's most demanding industrial applications for decades. Our 100-year-old reputation for reliability is both well earned and unsurpassed – and growing.

To meet the increasing worldwide demand for our products, Gates continues to add world-class manufacturing capacity. In addition to our manufacturing facilities in the United States, we now have factories in India, Brazil, Mexico, China and Europe, all of them adhering strictly to the Gates guidelines for quality assurance.

## Gates Consistent Manufacturing Quality Crosses Borders

Gates built its reputation for quality products by perfecting its manufacturing processes. These same closely monitored processes are in place in all our factories around the world. Made from the exact same materials, subjected to the same stringent testing and validation procedures, a Gates hose – **regardless of origin** – always meets or exceeds the strictest industry requirements.

## Constant Pressure, Consistent Colors



3000 psi | **M3K/EF3K**



4000 psi | **M4K/EF4K**



5000 psi | **M5K/EF5K**



6000 psi | **M6K/EF6K**



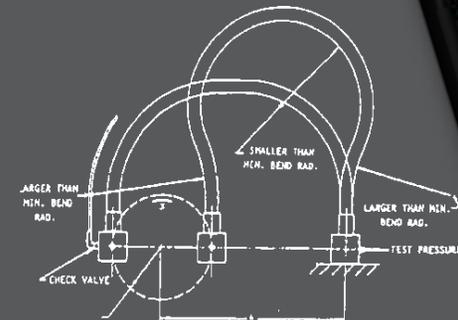
## Putting our hoses and assemblies to the test

Why do Gates hydraulic and industrial hose products perform so well?

We test them severely.

Consider the rigors of our flex-impulse test. We first twist the assembly 14°, pressurize it up to 133 percent of working pressure and then cycle impulses through it at one cycle per second until failure.

SAE Spec	Hose Size	Test Pressure (psi)	Test Temperature (°F)	Twist Angle (degrees)	Articulating Radius (inches)
100R12	-12	4650	212	14	4.8
100R16	-12	6000	212	14	4.8v





**Hose Assemblies:  
The Best and the Rest**

The performance and reliability of a hose assembly depends on more than the sum of its parts. For example, using an assembly made with a hose from Manufacturer "A" and a coupling from Manufacturer "B" is a problem in the making. Here's why:

**The Hose and the Coupling:  
Made for Each Other**

In making a superior hose assembly, there's more to it than merely crimping a coupling on the hose. Consider the variables involved, including the coupling stem and ferrule design, hose reinforcement, hose tube material, and the outside diameters of both the hose and the crimped coupling. And that's just for starters.



How reliable the resulting assembly will be depends not only on how well the components are made, but on how well they are made for each other. At Gates, we manufacture both the hose and the coupling, designing one to complement the other.

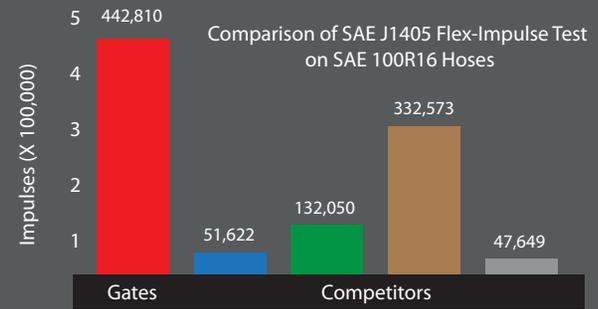
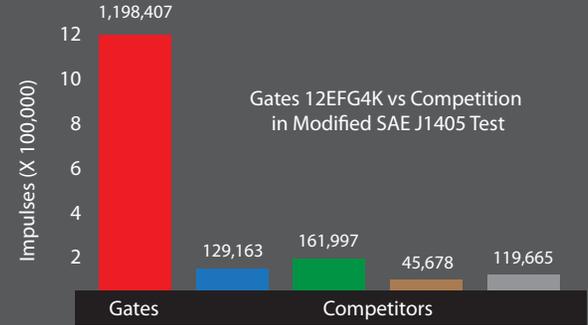
Once we've made and tested the components, we then test the resulting hose assemblies, continually validating their performance to ensure that the hose and couplings perform up to and well beyond the requirements of industry standards.

**Manufacturing Quality  
Consistently**

Becoming the world's leader in hydraulic and industrial hose products did not come overnight. Over 100 years of research and testing – and re-testing – contributed to the worldwide reputation we now enjoy. This Gates expertise is found in all our manufacturing plants around the world. No matter where the hose is made, the name of Gates on the layline stands for quality.

Then we did the same test with assemblies made by four major competitors. These charts shows the results.

**Gates Global Hose Sets the Bar**





The World's Most Trusted Name  
in Belts, Hose and Hydraulics.

[www.gates.com/hydraulics](http://www.gates.com/hydraulics)

