

MXG™ 4K INFO PACK

2021



DRIVEN BY POSSIBILITY™



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BOX MAILING

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 FORMAT PHYSICAL DIRECT MAILING
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 ORDER CODES 9997-E/21485
 REMARK ALTERNATIVE PRODUCT INTRODUCTION (COVID-19).

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BOX MAILING CONTENTS

INTRODUCTION LETTER

HOSE SAMPLES

- 8MXG4K-XTPXRL75
- 8MXTxBALE
- 8EFG4K
- 8PRO2TxBALE EURO
- 8M2TxBALE

SELL SHEETS

- MXG 4K
- MXT
- PRO2T
- M2T



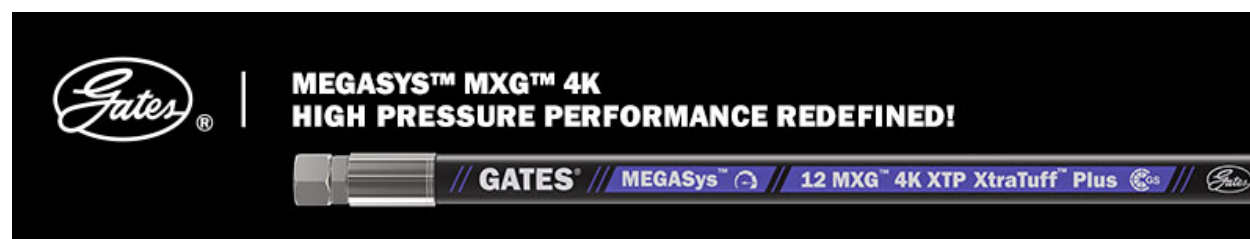
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MXG™ 4K HYDRAULIC HOSE

MXG™ 4K. HIGH-PRESSURE PERFORMANCE REDEFINED.

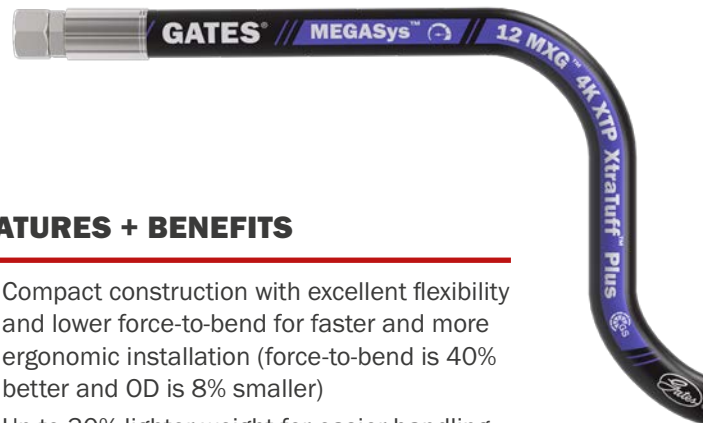
Built with our proprietary wire-braid process technology, MegaSys™ MXG™ 4K hose is lightweight, highly flexible, and qualified to ONE MILLION impulse cycles — it's a drop-in replacement for conventional spiral hoses.

We engineered a new class of hydraulic hose that exceeds the pressure and performance of wire spiral constructions, but with the lower weight and flexibility driven by Gates wire-braid technology.

The XtraTuff™ Plus abrasion-resistant cover on MXG™ 4K hose offers improved ozone resistance, and delivers exceptional durability to power your most demanding fluid power applications.

FEATURES + BENEFITS

- Compact construction with excellent flexibility and lower force-to-bend for faster and more ergonomic installation (force-to-bend is 40% better and OD is 8% smaller)
- Up to 30% lighter weight for easier handling and installation
- 1,000,000 cycle impulse life exceeds industry standards with GS couplings; impulse tested to the same parameters as Gates EFG4K spiral hose
- Exceeds performance criteria of ISO 18752 280DC, SAE 100R12, EN856 R12, and ISO 3862 R12; size -16 also rated for EN856 4SP
- Gates XtraTuff Plus is 25x more abrasion resistant than standard Gates cover





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MEGASYS™ MXG™ 4K PRODUCT SPECIFICATIONS

STANDARD

Exceeds all criteria of ISO 18752 280DC and SAE 100R19; exceeds performance criteria of SAE 100R12, EN 856 R12, ISO 3862 R12 (Size -16 also exceeds EN 856 4SP performance requirements)

CONSTRUCTION

Black, oil resistant, synthetic rubber tube; two layers of braided, high-tensile steel wire reinforcements

COVER

Black, XtraTuff™ Plus abrasion resistant, ozone resistant, synthetic rubber; smooth cover. Meets MSHA Flame Resistance.

TEMPERATURE RANGE:

-40° C to + 121° C

INDUSTRIES + APPLICATIONS









- Construction + Mining
- Forestry + Agriculturer
- Hydrostatic Drives
- Boom Arms + Excavators
- Rockbreaker + Water Well Rig
- Vacuum Trucks



WE'VE GOT YOU COVERED.

MXG™ 4K comes with Gates XtraTuff™ Plus, our latest material breakthrough, engineered for exceptional durability to cover your assets in the most demanding fluid power applications.

- 25X more abrasion resistant
- Exceptional durability
- Enhanced ozone resistance
- MSHA certified
- No impact to flexibility

											
REF.	DN	"	mm	"	PSI	MPa	PSI	MPa	mm	kg/100m	COUPLING
6MXG4K-XTP	10	3/8	17.7	0.70	4000	28.0	16000	112	65	38	GS
8MXG4K-XTP	12	1/2	20.7	0.82	4000	28.0	16000	112	90	52	GS
10MXG4K-XTP	16	5/8	25.2	0.99	4000	28.0	16000	112	100	69	GS
12MXG4K-XTP	19	3/4	28.9	1.14	4000	28.0	16000	112	120	95	GS
16MXG4K-XTP	25	1	38.0	1.50	4000	28.0	16000	112	150	157	GS

INFOGRAPHICS

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BECAUSE TIME IS MONEY

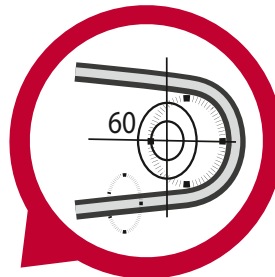


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FASTER AND EASIER ROUTING

Overcome bottlenecks and reduce mis-routings with MXG™ 4K. Faster assembly means increased output for your operation.



REDUCE MATERIAL COSTS

Flexible by design and tested for tighter bend radius, MXG™ 4K allows you to use less hose to get from port-to-port.



FEWER WARRANTY CLAIMS

Excellent flexibility promotes flush mounts that reduce leaks at the manifold.

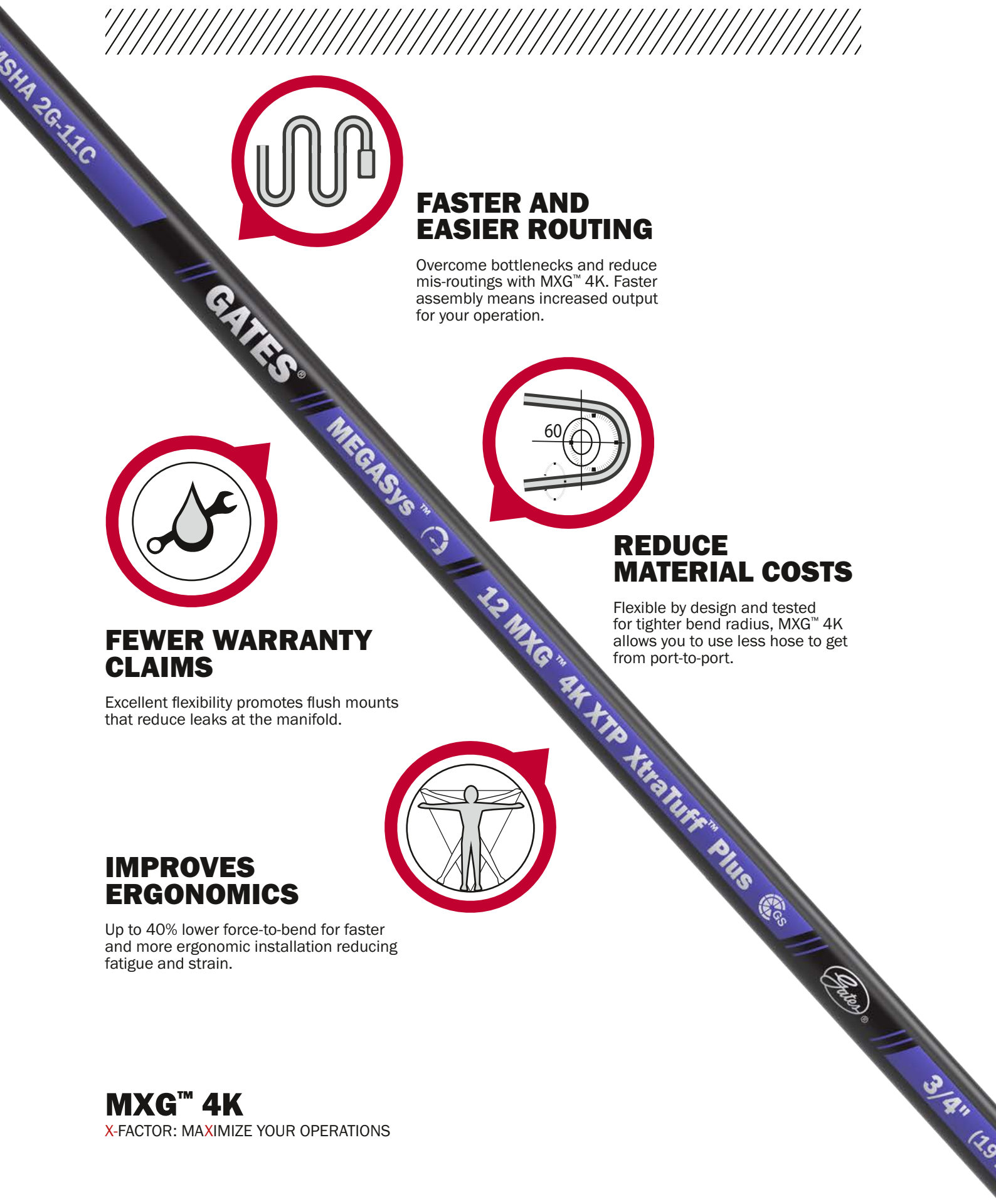


IMPROVES ERGONOMICS

Up to 40% lower force-to-bend for faster and more ergonomic installation reducing fatigue and strain.

MXG™ 4K

X-FACTOR: MAXIMIZE YOUR OPERATIONS



BECAUSE IF THERE'S A BETTER WAY, WE'LL FIND IT.



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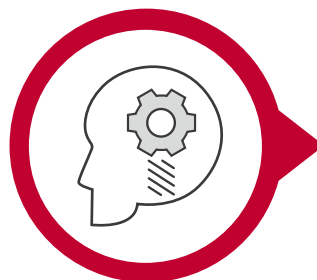


CHLOROPRENE FREE

XtraTuff™ Plus achieves excellent temperature, abrasion, and ozone resistance without the use of chloroprene.

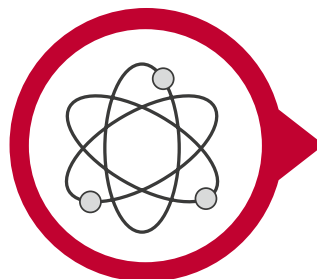
PUSHING BOUNDARIES

MXG™ 4K is engineered with GATES materials science expertise offering enhanced wire-braid technology in a slimmer profile for compact areas.



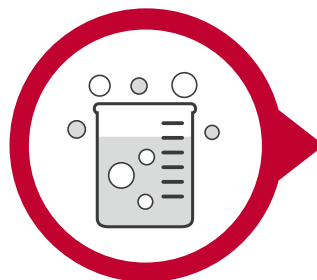
EXCEEDING EXPECTATIONS

At Gates, we engineer for the application challenges you face. We're introducing the XtraTuff™ Plus cover on all MXG™ 4K hoses — providing enhanced ozone and 25X abrasion resistance over our standard cover.



INTENTIONAL INNOVATION

This process of discovery and intentional innovation leads to technology breakthroughs, allowing us to create solutions that solve the problems of our customers around the world.



HOW DID GATES DO IT?

MATERIALS. SCIENCE. INNOVATION.

PREMIUM PERFORMANCE

Built with our proprietary wire-braid process technology, MXG™ 4K hose is lightweight, highly flexible, yet qualified to ONE MILLION impulse cycles — it's a drop-in replacement for conventional spiral hoses.



MXG™ 4K

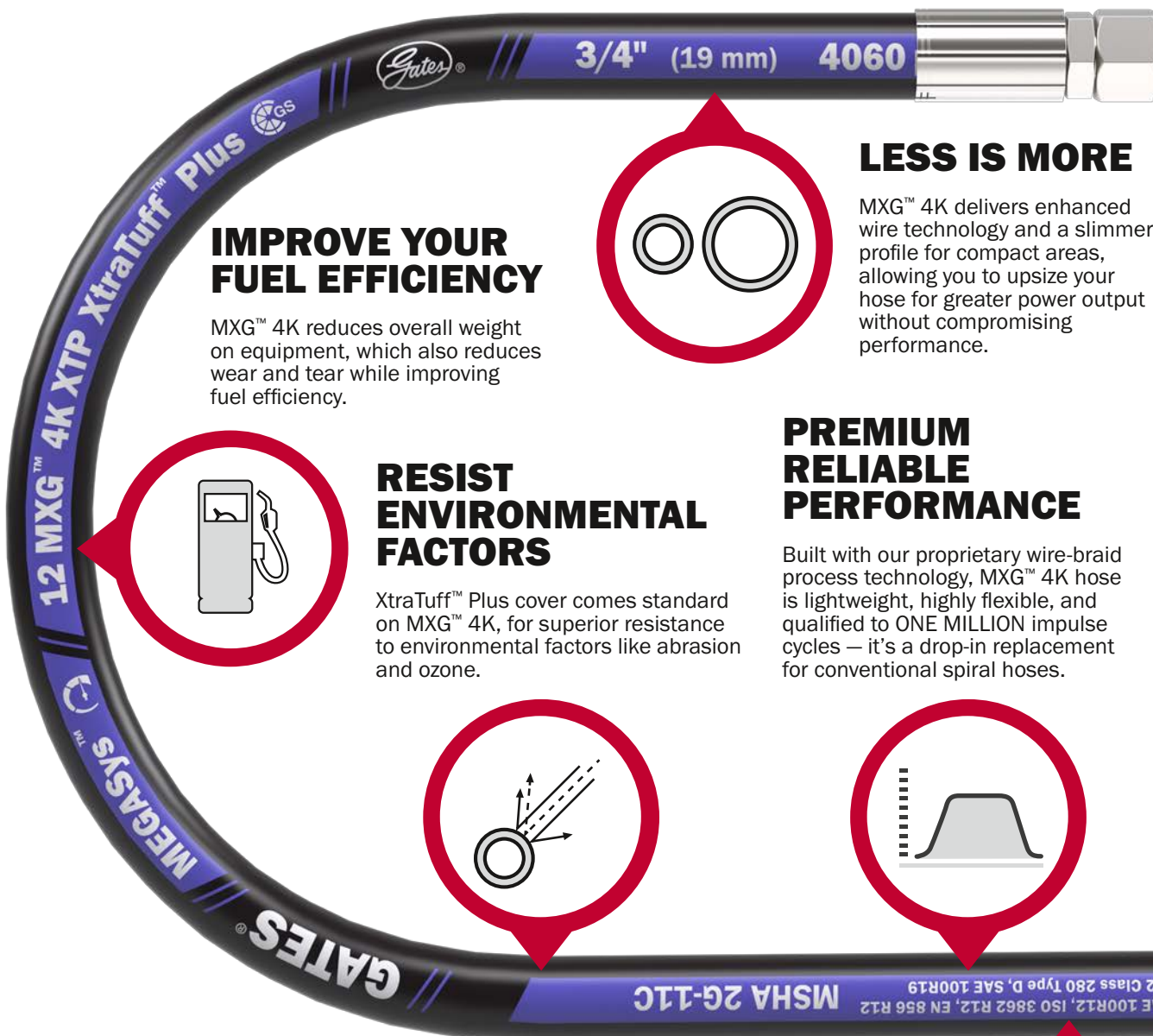
X-FACTOR: EXPERTISE IN MATERIALS SCIENCE



BECAUSE FAILURE HAS CONSEQUENCES

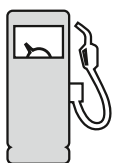


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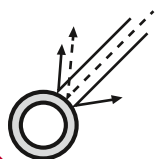
IMPROVE YOUR FUEL EFFICIENCY

MXG™ 4K reduces overall weight on equipment, which also reduces wear and tear while improving fuel efficiency.



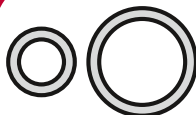
RESIST ENVIRONMENTAL FACTORS

XtraTuff™ Plus cover comes standard on MXG™ 4K, for superior resistance to environmental factors like abrasion and ozone.



LESS IS MORE

MXG™ 4K delivers enhanced wire technology and a slimmer profile for compact areas, allowing you to upsize your hose for greater power output without compromising performance.



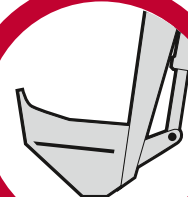
PREMIUM RELIABLE PERFORMANCE

Built with our proprietary wire-braid process technology, MXG™ 4K hose is lightweight, highly flexible, and qualified to ONE MILLION impulse cycles — it's a drop-in replacement for conventional spiral hoses.



MORE RESPONSIVE EQUIPMENT

Less weight on extended boom arms means you have more power.



MXG™ 4K

X-FACTOR: EXCELLENT PERFORMANCE

BECAUSE INNOVATION MAKES PROGRESS POSSIBLE



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IMPROVES ERGONOMICS

More flexible and lighter weight makes assembly easier and faster for your employees.



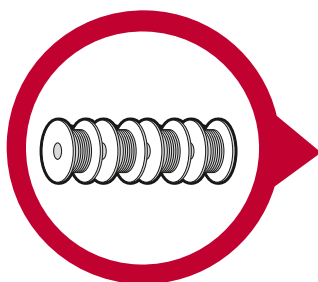
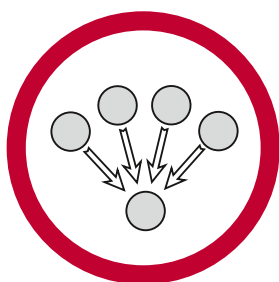
EXCLUSIVE TECHNOLOGY FROM GATES

From the updated XtraTuff™ Plus cover with abrasion and ozone resistance, to the enhanced wire-braid technology and new compact design, MXG™ 4K delivers big performance in a small package.



LIGHTER WEIGHT = LIGHTER REELS

MXG™ 4K reduces freight costs and makes it easier on your people to move inventory. MXG™ 4K is also available on reels for easier handling — and considerably lighter.

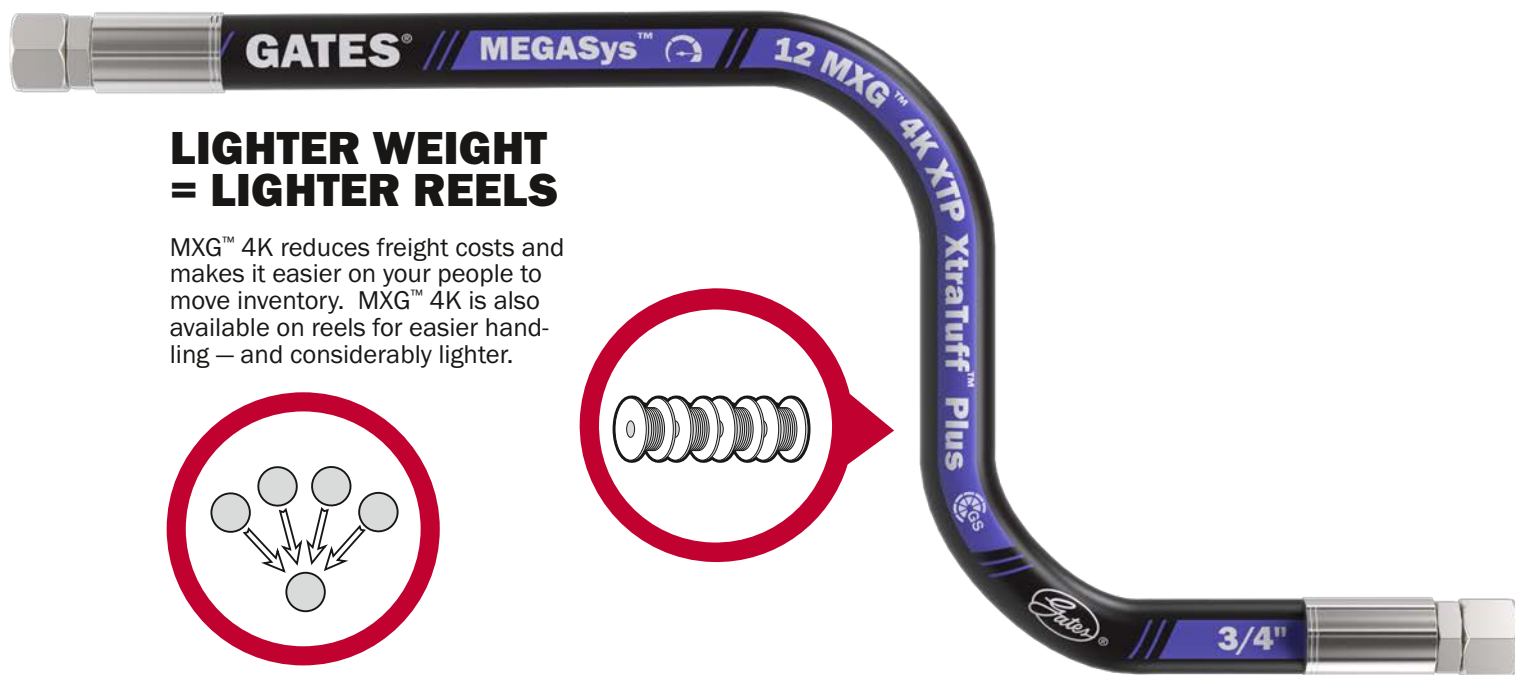


MULTI-USE HOSE

MXG™ 4K is branded with multiple spiral and wire-braid hose specification performance levels and is validated with multiple coupling options allowing you to meet performance, weight and cost targets with one single hose.

SIMPLIFY ASSEMBLY

MXG™ 4K wire-braid construction is easier to cut during assembly, extending the life of your blades. One-piece wire-braid couplings are also easier and faster to crimp than traditional wire spiral couplings.



MXG™ 4K

X-FACTOR: EXCLUSIVITY IS A BIG ADVANTAGE

BECAUSE LESS IS MORE

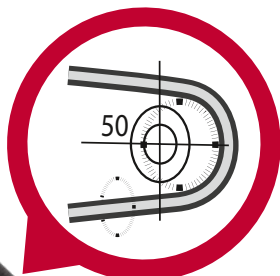


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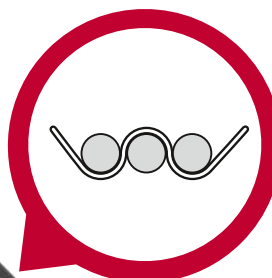
MORE FLEXIBLE = LESS HOSE

From the updated XtraTuff™ Plus cover with abrasion and ozone resistance, to the enhanced wire-braid technology and new compact design, MXG™ 4K delivers big performance in a small package.



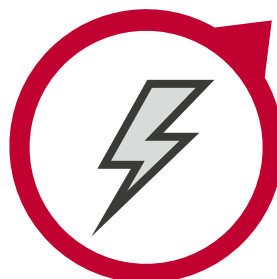
FAST. RELIABLE. FLEXIBLE.

You need all the space and flexibility you can get when routings get tight. That's why we engineered MXG™ 4K to be a highly flexible, lightweight, compact hose that goes toe-to-toe on performance with heavy duty spiral.



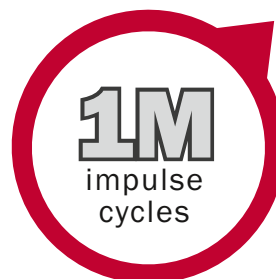
WEIGHT = SAVINGS

MXG™ 4K hose provides up to 30% weight savings in hose.



UPSIZE YOUR POWER IN TIGHT SPACES

MXG™ 4K allows you to upsize your hose for greater power output without compromising performance, and accommodates routings in smaller engine compartments in modern equipment designs.



BIG PERFORMANCE IN A SMALL PACKAGE

Qualified at one million impulse cycles — 2X impulse life of industry standards for spiral, 5X impulse life of industry standards for wire braid, at 121 °C operating temperature and 1/2 SAE spiral bend radii.

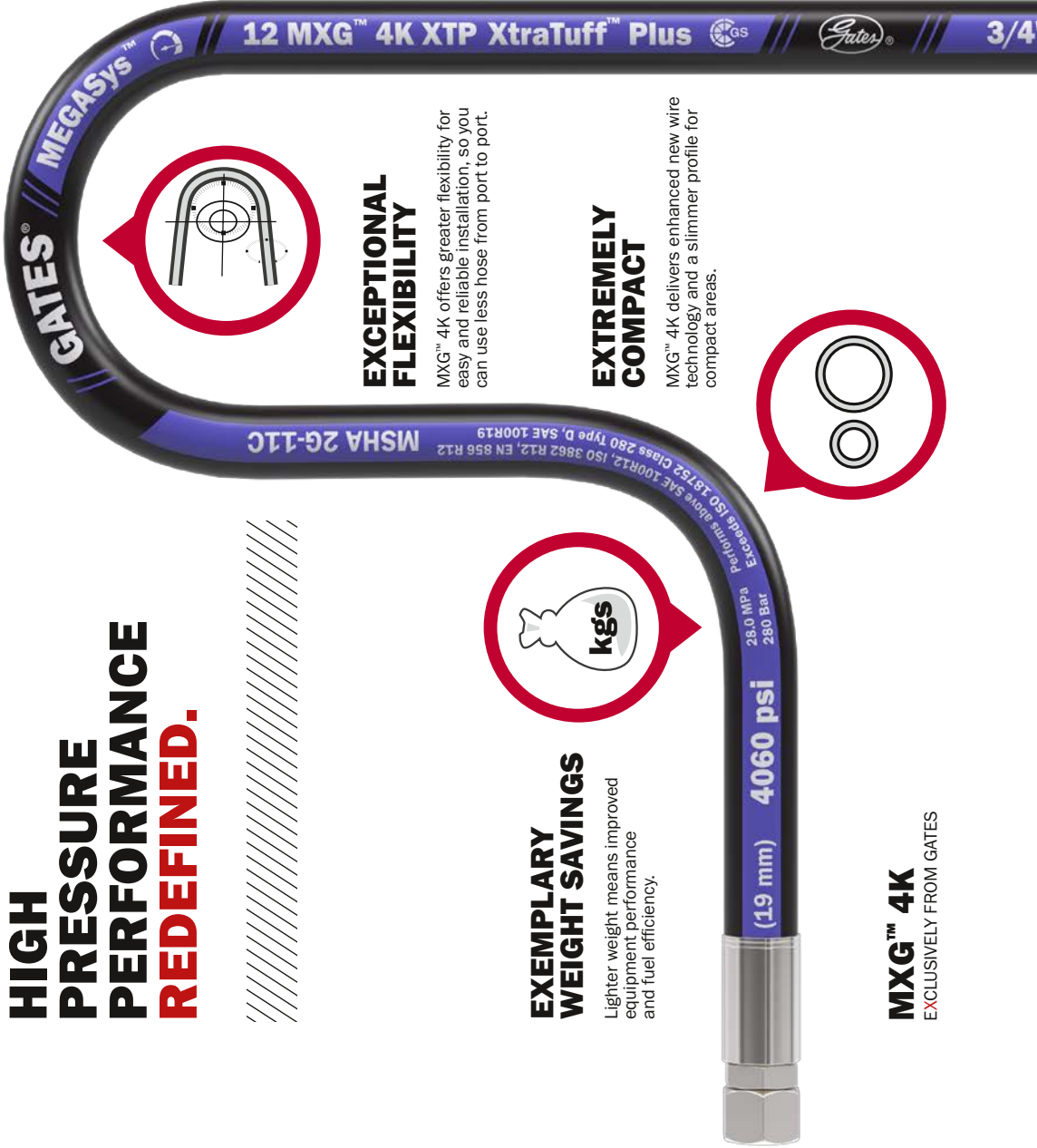
MXG™ 4K

X-FACTOR: EXTREMELY COMPACT

HIGH PRESSURE PERFORMANCE REDEFINED.

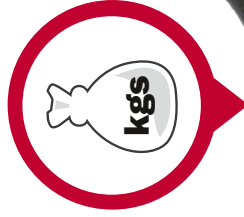


DRIVEN BY POSSIBILITY™



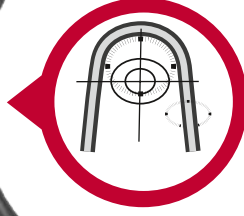
EXEMPLARY WEIGHT SAVINGS

Lighter weight means improved equipment performance and fuel efficiency.



EXCEPTIONAL FLEXIBILITY

MXG™ 4K offers greater flexibility for easy and reliable installation, so you can use less hose from port to port.



EXTREMELY COMPACT

MXG™ 4K delivers enhanced new wire technology and a slimmer profile for compact areas.



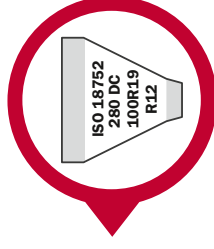
EXTRAORDINARY DURABILITY

XtraTuff™ Plus cover is standard, with 25X abrasion resistance and 800+ hour ozone resistance.



EXTENDED LIFE

Multi-Spec performance qualified to ONE MILLION impulse cycles at 1/2 Minimum Bend Radius.



MXG™ 4K

EXCLUSIVELY FROM GATES



PRESS RELEASE

(PRODUCT LAUNCH)

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Gates Introduces Innovative, New Hydraulic Hose Line to Power the Most Demanding Fluid Power Applications

LUXEMBOURG CITY, Apr. 04, 2020 – Gates (NYSE: GATES), a leading global provider of application-specific fluid power and power transmission solutions, is redefining high-pressure hydraulic performance with the introduction of the MegaSys™ MXG™ 4K hydraulic hose. Qualified to one million impulse cycles, this highly differentiated hose is a lightweight, compact, highly flexible drop-in replacement for conventional spiral hoses. Gates XtraTuff™ Plus cover, a standard upgrade on MXG 4K, offers improved abrasion and ozone resistance, providing improved durability when powering the most demanding fluid power applications.

"MXG 4K combines our newest materials with Gates' advanced processing technologies to create yet another product that stands out in the market," said Mike Haen, vice president, global product line management. "Our customers' applications require a lighter weight, more flexible, compact hose; so we tasked our engineers to design a new class of premium hydraulics to exceed the performance typically achieved with wire spiral constructions, but with the lower weight and flexibility driven by Gates next generation wire-braid technology – and they delivered. MXG 4K is truly an industry breakthrough."

Tested under the same conditions as Gates' popular EFG4K MegaSpiral™ hose, MXG 4K offers:

- **Ultimate Flexibility:** MXG 4K is 40% more flexible than conventional spiral hoses, reducing the amount of force needed to properly route, allowing for faster and more ergonomic installation.
- **Unrivaled Weight Reduction:** At 30% lighter weight, MXG 4K improves equipment performance, material handling, installation and ergonomics.
- **Compact Design:** MXG 4K is on average 8% more compact, providing an easier fit that also enables upsizing hose selection for increased power.
- **Extreme Durability and High Temperature Performance:** MXG 4K exceeds industry standards for bend radius and impulse life, performing to one million impulse cycles at high temperatures (121° C/250° F).
- **Abrasion and Ozone Resistance to Battle External Factors:** The XtraTuff Plus cover, delivered standard on MXG 4K, is engineered to be 25 times more abrasion resistant than Gates' standard cover and also provides enhanced ozone resistance, passing a rigorous 800-hour ozone test.

"Truly a multi-use hose, MXG 4K serves smaller and more congested hydraulic systems, helping to improve assembly line speeds and achieve tight routings, while delivering additional abrasion resistance and ozone protection," said Cindy Cookson, director of global product line management for hydraulics. "MXG 4K provides our OEM clients and distributors, and ultimately the end user, with a new, innovative technology that has the ability to improve equipment performance and overall output while reducing warranty and repairs."



DRIVEN BY POSSIBILITY™

MXG 4K is compliant with and exceeds ISO 18752 280DC and SAE 100R19 requirements, exceeds performance criteria of SAE 100R12, EN 856 R12, and ISO 3862 R12; size 16 and also exceeds EN 856 4SP ratings.

To learn more, visit www.gates.com/mxg.

About Gates

Gates is a global manufacturer of innovative, highly engineered power transmission and fluid power solutions. Gates offers a broad portfolio of products to diverse replacement channel customers and to original equipment ("first-fit") manufacturers as specified components. Gates participates in many sectors of the industrial and consumer markets. Gates products play essential roles in a diverse range of applications across a wide variety of end markets ranging from harsh and hazardous industries such as agriculture, construction, manufacturing and energy, to everyday consumer applications such as printers, power washers, automatic doors and vacuum cleaners, and virtually every form of transportation. Gates products are sold in 128 countries across four commercial regions: the Americas; Europe, Middle East and Africa; Greater China; and East Asia and India. More about Gates can be found at www.gates.com.

###

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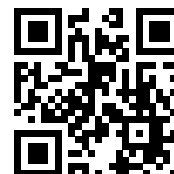
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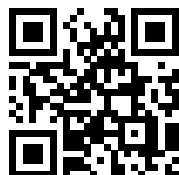
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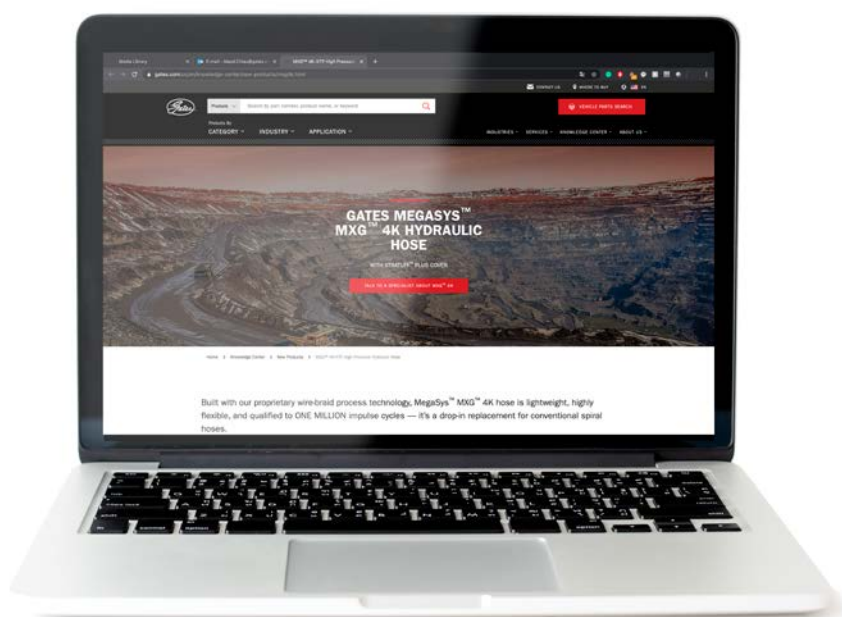
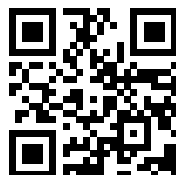
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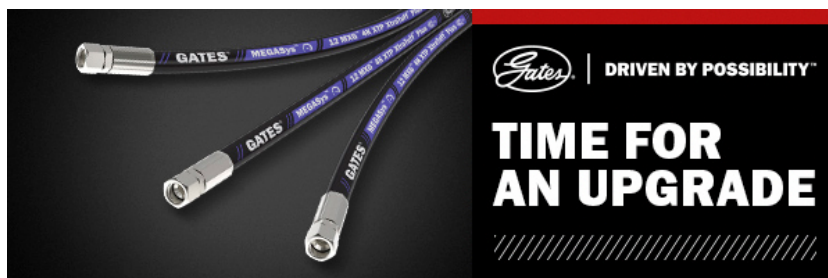


FIELD BULLETIN INDEX PAGE:



LANDING PAGE:





NEW MXG™ 4K HYDRAULIC HOSE LINE: AN INDUSTRY BREAKTHROUGH

Dear

Only a year ago we completed our revolutionary MXT hose range. Today, Gates has reached another breakthrough in application-specific fluid power solutions: our **MegaSys™ MXG™ 4K hydraulic hose**. This premium drop-in replacement for conventional spiral hoses has everything it takes to power even the most demanding applications.

Let's walk you through its main benefits:



Increased flexibility

Our new solution is 40% more flexible than conventional spiral hoses, guaranteeing faster and more ergonomic installation.



Weight reduction

30% lighter, the MXG™ 4K is sure to improve overall weight equipment and fuel efficiency.



Compact design

With a design that is 8% more compact, our hydraulic hose provides an easier fit.



Extreme durability

MXG™ 4K exceeds industry standards for bend radius and impulse life. Our multi-use hose performs to 1,000,000 impulse cycles at temperatures as high as 121° C.



Abrasion and ozone resistance

The MXG™ 4K's XtraTuff Plus cover effortlessly passes a rigorous 800-hour under ISO 7326 ozone test and is 25 times more abrasion-resistant than standard wire-braid covers.

Ready to increase assembly line speeds and improve equipment performance? Visit our MXG™ 4K product page and make sure to leave your contact details, so one of our experts can get in touch with you.

[GO TO THE MXG 4K PRODUCT PAGE](#)



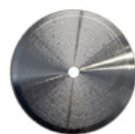
A SPECIAL OFFER YOU DON'T WANT TO MISS OUT ON

Dear customer

We have introduced our **MXT™** and **MXG™ 4K** hoses to you, helping you to increase assembly line speeds and improve equipment performance. Now, to both celebrate the launch of two innovative hose concepts and to bring Gates materials science closer to you, we are initiating a **special campaign**. We want to help you upgrade or renew your workshop cutting equipment with either:

- **MXT hoses** (a drop-in replacement for your 2-wire, braid hose solutions)
- or **MXG4K hoses** (a drop-in replacement for traditional wire spiral hose operating at up to 280 bar maximum working pressure)

Both are industry-leading, **lightweight and highly flexible** hose solutions with a set of typical MegaSys premium increased lifetime features ... and they come with a **free gift**:



An MKX
diamond blade*
for FREE on
orders
as of € 25,000.



An MKX25-
220V hose
cutter** for
FREE on
orders
as of € 30,000.



An MKX30-
380V hose
cutter** for
FREE on
orders
as of € 40,000.



An MKX40-
380V hose
cutter** for
FREE on
orders
as of € 50,000.

* More info on the MKX diamond blade can be found [here](#)

** More info on our cutting machines can be found [here](#).

So, what do you think?

Get in touch with your Gates representative, place your order and claim your complimentary diamond blade or hose cutter! This offer is valid until the end of September and is not eligible for a cash discount or return. Lead time of gift delivery will be communicated at the end of this action.



RETHINK YOUR SPIRAL HYDRAULIC HOSE



Dear _____,

Are you familiar with our brand-new, revolutionary MegaSys™ MXG™ 4K hydraulic hose yet? It's a drop-in replacement for conventional spiral hoses, but not just that...

- Our premium hose **exceeds the performance typically achieved with wire spiral constructions**, while being 40% more flexible, 30% lighter and 8% smaller in hose outside diameter.
- The MXG™ 4K is qualified to 1,000,000 impulse cycles (twice as much as spiral standards) under **very tight bend radii up to 121°C**, while its XtraTuff™ Plus cover offers 25 times the abrasion resistance of standard covers and enhanced ozone resistance.

The numbers speak for themselves, right? But perhaps you'd like **more details on our new hydraulic hose solution**. We've got you covered with a **complete MXG™ 4K information kit** that is available for a free download in our Media Library.

GET YOUR MXG 4K TOOLKIT

Dig into test reports, interesting infographics, handy feature overviews and product videos, and see for yourself what this innovative addition to our premium MegaSys™ Hydraulics portfolio can do for you.

Enjoy!



MXG™ 4K XTRATUFF™ PLUS HIGH PRESSURE PERFORMANCE REDEFINED

Last year, the innovative use of material science and design technology has brought us MXT™. This MegaSys premium hose with a **revolutionary wire braid reinforcement** has meanwhile become a recognised player in the vast 2-wire braid hydraulic hose market.

But MXT™ was just the start! Using materials science advancements, design expertise and processing technologies, we now bring you a hydraulic hose that exceeds the performance of wire spiral constructions but with the lower weight and flexibility driven by Gates wire-braid technology. MXG 4K hose is **lightweight, highly flexible, and qualified to ONE MILLION impulse cycles** with GlobalSpiral couplings - it's a drop-in replacement for conventional spiral hoses. MXG 4K offers **280 bar maximum working pressure up to 121°C temperature** and the same tight minimum bend radii as EFG4K.

Read more in the Field bulletin on how 'less is more' with the MXG™ 4K hose and all the insights on the new XtraTuff™ Plus (XTP) cover.

[Discover Field Bulletin 180 >>>](#)



FIELD BULLETIN 180

MXG™ 4K XTRATUFF™ PLUS HIGH PRESSURE PERFORMANCE REDEFINED!

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DOWNSIZING BRINGS UPLIFTING

Less is more for your machine. MXG 4K delivers premium reliable performance to upgrade your machine with a slimmer profile for compact areas:

- **Tight bend radii** (1/2 of spiral SAE standards) for more compact routing resulting in less hose usage;
- **More space in your hydraulic system** for other components, or reduction of the overall footprint of your hydraulic system;
- **Allowing upsizing of your hoses;** larger size equals more fluid flow, equals more power output, for improved equipment performance;
- **Lighter in weight** driving equipment fuel efficiency and responsiveness.

Less is more for your operations. MXG 4K delivers a highly flexible and lightweight product that provides fast, ergonomic and reliable handling and installation:

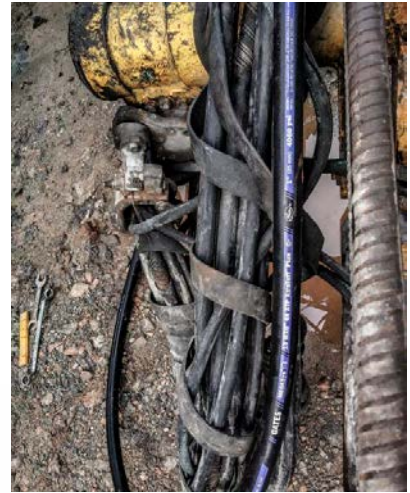
- **Less force-to-bend, faster to install and easier to route**, which increases productivity and reduces the risk of leaks;
- **More ergonomic assemblies and warehouse handling**, reducing fatigue during fabrication and installation.

NEW XTRATUFF PLUS

The XtraTuff™ Plus (XTP) cover on MXG 4K hose offers 25X the abrasion resistance of standard covers, as well as impressive ozone resistance.

XTP is a new compound formulated specifically for both abrasion resistance and ozone resistance to protect the rest of the hose from damage in extreme hydraulic applications. The smooth cover finish results from the most modern cover extrusion process technologies. XTP is designed to withstand the high temperatures of wire spiral applications, while being compatible with wire braid reinforcement.

Enhanced ozone protection and abrasion resistance are features that are highly valued on following spiral hose applications that are often struggling with lifetime shortening because of harsh external assembly conditions such as boomer and top hammer drills, excavators and attachments, hydrostatic drives, waste compactor trucks, vacuum trucks,



-30%
LIGHTER
WEIGHT
COMPARED TO TRADITIONAL
WIRE-SPIRAL HOSE



-40%
LOWER
FORCE-TO-BEND
COMPARED TO TRADITIONAL
WIRE-SPIRAL HOSE



-8%
MORE
COMPACT
VS. INDUSTRY STANDARD
SPIRAL HOSE



25X
MORE
ABRASION-RESISTANCE
THAN GATES STANDARD
COVERS












In the attached documents you will find our new MXG 4K sell sheet and hose catalogue page with further details. A complete pack of support materials including videos, infographics, ... is available on request as a customer toolbox. Crimp data is on <http://ecrimp.gates.eu>, logistical and price details have been added to the customer pricelist.

FOR MORE INFORMATION PLEASE CONTACT YOUR LOCAL SALES REPRESENTATIVE

MXG™ 4K



												
-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.	
-6	10	3/8	0,70	17,7	4000	28,0	16000	112,0	65	38	6MXG4K-XTP	
-8	12	1/2	0,82	20,7	4000	28,0	16000	112,0	90	52	8MXG4K-XTP	
-10	16	5/8	0,99	25,2	4000	28,0	16000	112,0	100	69	10MXG4K-XTP	
-12	19	3/4	1,14	28,9	4000	28,0	16000	112,0	120	95	12MXG4K-XTP	
-16	25	1	1,50	38,0	4000	28,0	16000	112,0	150	157	16MXG4K-XTP	

RECOMMENDED FOR

High pressure hydraulic applications. Easy to route and to install in tight areas. Alternative to spiral hoses in high pressure lines where flexibility is required.

TUBE

NBR (nitrile) based.

REINFORCEMENT

Two braids of high tensile steel wire.

COVER

Black, XtraTuff Plus synthetic rubber. MSHA approved.

TEMPERATURE RANGE

-40°C to +121°C.
For water emulsions, etc. see Temperature Limits Table.

STANDARDS

Exceeds ISO 18752 280DC. SAE 100R19.
Exceeds performance criteria of ISO 3862 R12. Size -16 also rated for EN856 4SP.

COUPLINGS

GlobalSpiral (all sizes).

CHARACTERISTICS / BENEFITS

Proprietary application of materials science and processing technology.

Superior impulse performance : 1,000,000 cycle impulse life exceeds industry standards (2X spiral and 5X wire braid standards) with GS couplings.

Impulse tested to the same parameters as Gates EFG4K spiral hose (pressure, temperature and bend radius).

Enhanced ozone & abrasion resistance.

Highly flexible & lightweight.

IMPORTANT



MXG™ 4K COUPLINGS

MXG™ 4K uses the GS1F-2 ferrule for sizes 6 through 12. This is an important change that you and your customers will need to consider for ordering and inventory.

Size	GlobalSpiral™ GS Ferrules
6	GS1F-2
8	GS1F-2
10	GS1F-2
12	GS1F-2
16	GS1F-4





DRIVEN BY POSSIBILITY™

MXG™ 4K HYDRAULIC HOSE

MXG™ 4K. HIGH-PRESSURE PERFORMANCE REDEFINED.

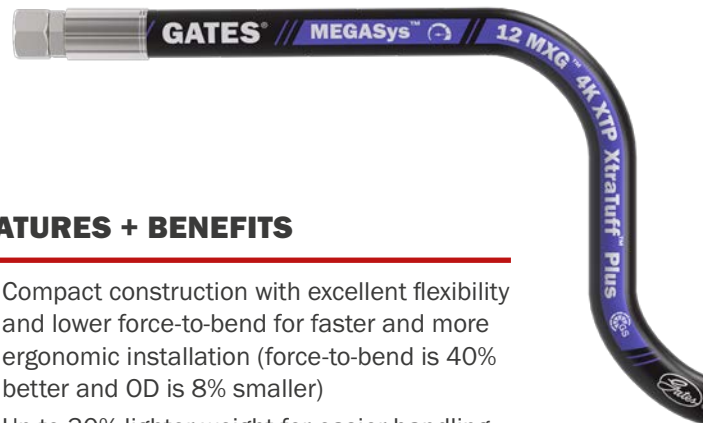
Built with our proprietary wire-braid process technology, MegaSys™ MXG™ 4K hose is lightweight, highly flexible, and qualified to ONE MILLION impulse cycles — it's a drop-in replacement for conventional spiral hoses.

We engineered a new class of hydraulic hose that exceeds the pressure and performance of wire spiral constructions, but with the lower weight and flexibility driven by Gates wire-braid technology.

The XtraTuff™ Plus abrasion-resistant cover on MXG™ 4K hose offers improved ozone resistance, and delivers exceptional durability to power your most demanding fluid power applications.

FEATURES + BENEFITS

- Compact construction with excellent flexibility and lower force-to-bend for faster and more ergonomic installation (force-to-bend is 40% better and OD is 8% smaller)
- Up to 30% lighter weight for easier handling and installation
- 1,000,000 cycle impulse life exceeds industry standards with GS couplings; impulse tested to the same parameters as Gates EFG4K spiral hose
- Exceeds performance criteria of ISO 18752 280DC, SAE 100R12, EN856 R12, and ISO 3862 R12; size -16 also rated for EN856 4SP
- Gates XtraTuff Plus is 25x more abrasion resistant than standard Gates cover





DRIVEN BY POSSIBILITY™

MEGASYS™ MXG™ 4K PRODUCT SPECIFICATIONS

STANDARD

Exceeds all criteria of ISO 18752 280DC and SAE 100R19; exceeds performance criteria of SAE 100R12, EN 856 R12, ISO 3862 R12 (Size -16 also exceeds EN 856 4SP performance requirements)

CONSTRUCTION

Black, oil resistant, synthetic rubber tube; two layers of braided, high-tensile steel wire reinforcements

COVER

Black, XtraTuff™ Plus abrasion resistant, ozone resistant, synthetic rubber; smooth cover. Meets MSHA Flame Resistance.

TEMPERATURE RANGE:

-40° C to + 121° C

INDUSTRIES + APPLICATIONS









- Construction + Mining
- Forestry + Agriculturer
- Hydrostatic Drives
- Boom Arms + Excavators
- Rockbreaker + Water Well Rig
- Vacuum Trucks



WE'VE GOT YOU COVERED.

MXG™ 4K comes with Gates XtraTuff™ Plus, our latest material breakthrough, engineered for exceptional durability to cover your assets in the most demanding fluid power applications.

- 25X more abrasion resistant
- Exceptional durability
- Enhanced ozone resistance
- MSHA certified
- No impact to flexibility

											
REF.	DN	"	mm	"	PSI	MPa	PSI	MPa	mm	kg/100m	COUPLING
6MXG4K-XTP	10	3/8	17.7	0.70	4000	28.0	16000	112	65	38	GS
8MXG4K-XTP	12	1/2	20.7	0.82	4000	28.0	16000	112	90	52	GS
10MXG4K-XTP	16	5/8	25.2	0.99	4000	28.0	16000	112	100	69	GS
12MXG4K-XTP	19	3/4	28.9	1.14	4000	28.0	16000	112	120	95	GS
16MXG4K-XTP	25	1	38.0	1.50	4000	28.0	16000	112	150	157	GS

VIDEOS

(TEASER VIDEO / FULL PRODUCT VIDEO)

LANGUAGES TEASER VIDEO..... EN / DE / ES / FR / RU
 LANGUAGES FULL PRODUCT VIDEO EN / DE / ES / FR / RU
 FORMATMP4
 SIZE1080P
 AVAILABILITYGATES.COM KNOWLEDGE CENTRE
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↓ Product Marketing Toolkits



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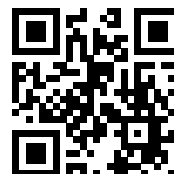
(WEBINAR)

LANGUAGES DE / EN / ES / FR / IT / PL / RU / TR
FORMAT PDF
AVAILABILITY GATES.COM KNOWLEDGE CENTRE
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MEGASYS™ MXG™ | NOMENCLATURE

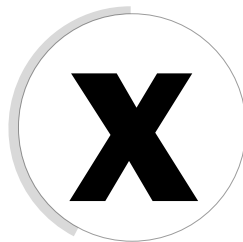
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=

MEGASYS™

It provides differentiation from PRO Series and is consistent with existing products (M3K, M2T, MXT). PRO Series products start with "PRO" and will follow similar naming conventions as MegaSys™.



=

MATERIALS ADVANCEMENTS + WIRE TECHNOLOGY

Providing consistency in messaging with MXT.



=

GLOBAL + ALSO REFERENCES "REPLACED PRODUCT"

MXG is an innovative replacement to EFG4K.



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MEGASYS™ MXG™ | MXG4K

4

INNOVATION DRIVERS

- 40% Lower Force-to-Bend
- 30% Lighter Weight
- 8% More Compact
- Multi-use Hose Consolidates Inventory
- MXG™ 4K Comes Standard with XTP Cover

MXG™ 4K DETAILS

- Impulse performance matches existing EFG4K (1M cycles at 133% of working pressure at 121°C and same MBR)
- MXG 4K qualified with Global Spiral™ (GS) couplings to 1,000,000 impulse cycles
- Available in sizes 6, 8, 10, 12, and 16
- MXG 4K has a smooth cover
- MXG 4K is initially manufactured in India



MEET VARYING SPECIFICATIONS AND CUSTOMER PERFORMANCE EXPECTATIONS WITH ONE SINGLE HOSE

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MEGASYS™ MXG™ | MXG4K XTRATUFF™ PLUS

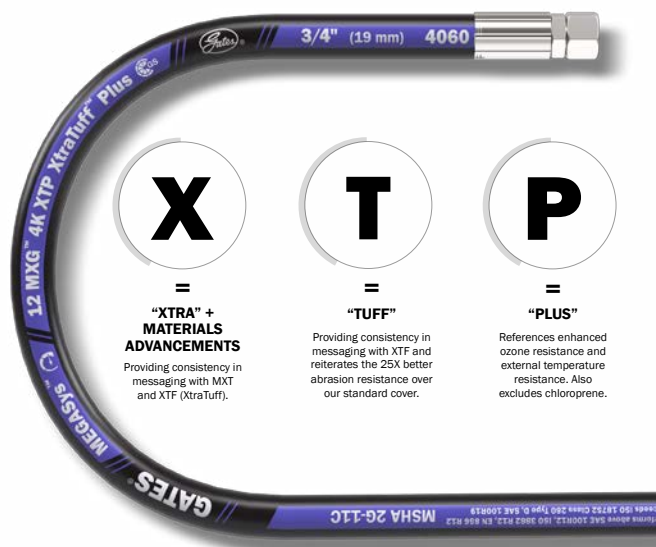
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XTRATUFF™ PLUS FOR MXG™ 4K

MXG™ 4K COMES STANDARD WITH XTP COVER

25X MORE abrasion resistant than Gates standard cover. And that's not all...

- Enhanced ozone protection
- Delivers exceptional durability, even at elevated temperatures (121°C operating environments)
- Smooth cover
- No impact to flexibility
- Chloroprene free



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MEGASYS™ MXG™ 4K | XTRATUFF™ PLUS

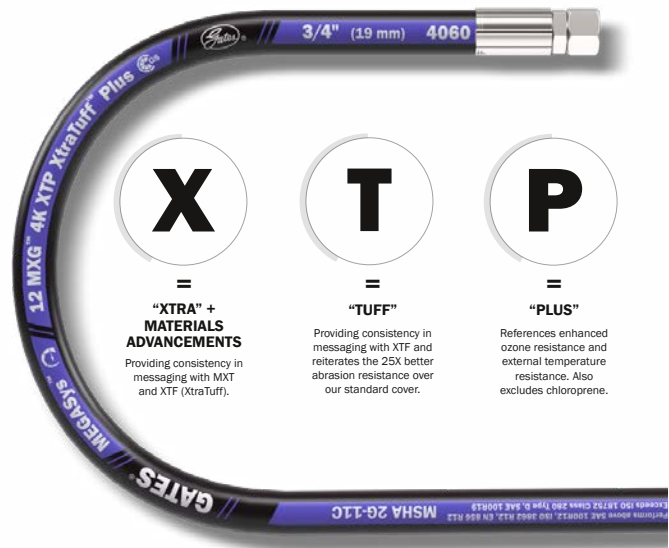
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APPLICABLE STANDARDS



APPLICABLE STANDARDS | EXPLAINED

8

APPLICABLE STANDARDS WIRE SPIRAL

- **MXG™ 4K exceeds performance criteria of SAE 100R12**
 - MXG™ 4K uses an innovative construction that does not meet the construction requirements of traditional spiral standards
 - Qualified at 1/2 minimum-bend-radius (MBR) requirements
 - Same performance as EFG4K (pressure, temperature, MBR)
- **16 MXG™ 4K exceeds performance criteria of EN 856 4SP**
 - 16 MXG™ 4K exceeds EN 856 4SP performance requirements, but does not meet construction requirements
 - Temperature rating exceeds industry standard (121°C vs. 100°C)

APPLICABLE STANDARDS WIRE BRAID

- **MXG™ 4K exceeds performance of SAE 100R19 and is fully dimensionally compliant**
 - Impulse life exceeds 5X industry standard (1,000,000 impulse cycles)
 - Temperature rating exceeds industry standard (121°C vs. 100°C)

APPLICABLE STANDARDS HYBRID

- **MXG™ 4K exceeds performance of ISO 18752 280DC and is fully dimensionally compliant**
 - ISO 18752 focuses on performance and does not dictate construction



MXG USES AN INNOVATIVE CONSTRUCTION UNLIKE THE CONSTRUCTION REQUIREMENTS OF TRADITIONAL SPIRAL STANDARDS

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MEGASYS™ MXG™ 4K | APPLICABLE STANDARDS EXPLAINED

9

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MXG™ 4K APPLICABLE STANDARDS | VALIDATED COUPLING

10

MXG™ 4K COUPLINGS

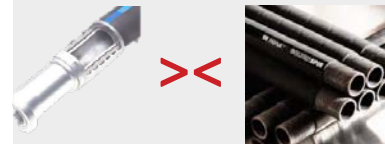
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Size	GlobalSpiral™ GS Ferrules
6	GS1F-2
8	GS1F-2
10	GS1F-2
12	GS1F-2
16	GS1F-4



GATES NO-SKIVE

- No-skiving machinery investment required
- Assembly Time-saving
- Less chance to fabrication errors
 - Skiving too deep
 - Skiving too shallow
 - Improper skive length
- Your best assurance for leak-free



NO-SKIVE SOLUTIONS ACROSS THE RANGE

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KEY BENEFITS



KEY BENEFITS | SPECIFICATION COMPARISON

12

MXG™ 4K COMPACT MASTER

Size	Minimum Bend Radius (mm)				
	MXG 4K	EFG4K	ISO 18752 280DC	SAE 100R12	EN 856 4SP
6	65	65	90	125	180
8	90	90	130	180	230
10	100	100	200	200	250
12	120	120	240	240	300
16	150	150	300	300	340

Size	Weight (kg/m)		
Nom. 1/16"	MXG 4K	EFG4K	MXG 4K Weight Savings
6	0.38	0.76	-50%
8	0.52	0.94	-45%
10	0.69	1.04	-33%
12	0.95	1.28	-26%
16	1.57	1.88	-16%

Force-To-Bend (kg/m)		
MXG 4K	EFG4K	MXG 4K FTB Improvement
5.1	14.8	-66%
6.4	17.0	-62%
10.7	25.5	-58%
16.1	22.9	-30%
22.9	35.1	-35%

Outside Diameter (mm)		
MXG 4K	EFG4K	MXG 4K FTB Improvement
17.7	20.3	-13%
20.7	23.9	-13%
25.2	27.7	-9%
28.9	30.7	-6%
38.0	38.1	0%

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ITS COMPACT SIZE ALLOWS YOU TO UPSIZE
YOUR HOSE FOR GREATER POWER OUTPUT
WITHOUT COMPROMISING PERFORMANCE





KEY BENEFITS | WEIGHT REDUCTION

14

30%
LIGHTER WEIGHT

COMPARED TO TRADITIONAL
WIRE-SPIRAL HOSE



ADVANTAGES OF WEIGHT REDUCTION

- **Reduces overall equipment weight**

Problem: Multiple OEM's have weight reduction targets

Solution: MXG4K lowers weight which drives fuel efficiency and equipment responsiveness

- **Improved ergonomics**

Problem: Traditional spiral hose assemblies are heavy, think kits

Solution: MXG4K offers more ergonomic assemblies and warehouse handling

- **More compact installations**

Problem: Traditional spiral hoses are heavy because of required routing space

Solution: MXG4K has smaller bend radius that allow for more compact routing with less hose usage

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KEY BENEFITS | WEIGHT REDUCTION

15

APPLICATED

EXCAVATORS

MODEL	ASSEMBLIES	SIZES	POTENTIAL LENGTH	MACHINE WEIGHT SAVINGS
CAT 330CL	48 assies use 100R12 hose	6, 8, 12, 16	129 meters	40 kg/machine weight savings when converting to MXG 4K hose
HITACHI EX200-5	39 assies use 100R12 hose	12, 16	51 meters	9 kg/machine weight savings when converting to MXG 4K hose
JOHN DEERE 490D	39 assies use 100R12 hose	6, 12, 16	52 meters	12 kg/machine weight savings when converting to MXG 4K hose



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ELECTRIFICATION PLATFORMS

MXG™ 4K supports Customers ongoing electrification efforts with weight savings + technical benefits.





KEY BENEFITS | FLEXIBILITY

16

-40%
LOWER
FORCE-TO-BEND
COMPARED TO TRADITIONAL
WIRE-SPIRAL HOSE



ADVANTAGES OF FLEXIBILITY

- **Faster to install**

Problem: Traditional spiral hoses are stiff and difficult to route

Solution: MXG4K speeds up assembly time or limits downtime > more productivity

- **Improved ergonomics**

Problem: Traditional spiral hoses cause fatigue and strain during fabrication and installation

Solution First Fit: MXG4K is easier to route thus reducing fatigue

Solution Distribution: MXG4K allows for reeling and easier handling

- **Reduced risk of leaks**

Problem: Traditional spiral hoses have more leaks from misaligned hose couplings

Solution: MXG4K facilitates flush mounts and right-the-first-time installation

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KEY BENEFITS | FLEXIBILITY

17



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KEY BENEFITS | COMPACT DIMENSIONS

18

-8%
**MORE
COMPACT**
VS. INDUSTRY STANDARD
SPIRAL HOSE



ADVANTAGES OF COMPACT DIMENSIONS

- **More compact installations**

Problem: Several applications have congested hydraulic systems

Solution: MXG4K has a slimmer profile for more compact layouting and smaller bundles

- **Improved ergonomics**

Problem: Traditional spiral hose assemblies are difficult to route and install

Solution: MXG4K supports easier routing through small routing openings

- **Faster to install**

Problem: Traditional spiral hoses require more space to install

Solution: compact MXG4K improves assembly line speed

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KEY BENEFITS | OZONE RESISTANCE

19

NEW XTRATUFF PLUS ENHANCED OZONE PROTECTION

- **Exposed and stretched rubber surfaces most prone to ozone concern and damage:**

- Typically the outside radius of a static bent hose
- Typically hoses that are frequently flexed in application

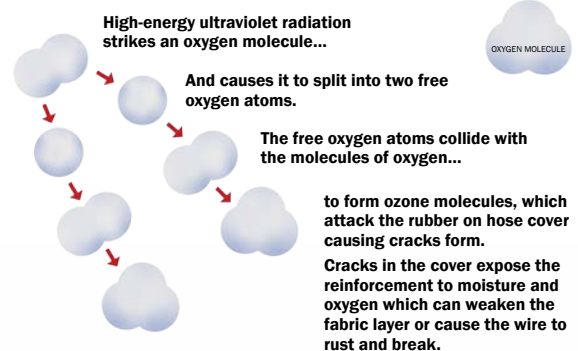
- **Ozone resistance is measured under ISO 7326 test set-up (50 pphm concentration on hose to MBR) :**

- ISO standard: 72 hrs, no cracks under 2x magnification
- Gates standard cover: 400 hrs
- Gates XtraTuff cover: 800 hrs
- **Gates XtraTuff Plus cover: 1,200 hours**

- **Gates conducts even more extreme ozone test to proof maximum endurance**

- Accelerated ozone test to 1/4 MBR and 100 pphm

NEW XTRATUFF PLUS ENHANCED OZONE PROTECTION



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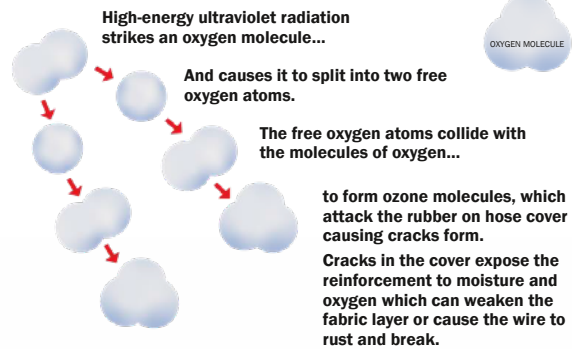
KEY BENEFITS | OZONE RESISTANCE

20

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NEW XTRATUFF PLUS ENHANCED OZONE PROTECTION



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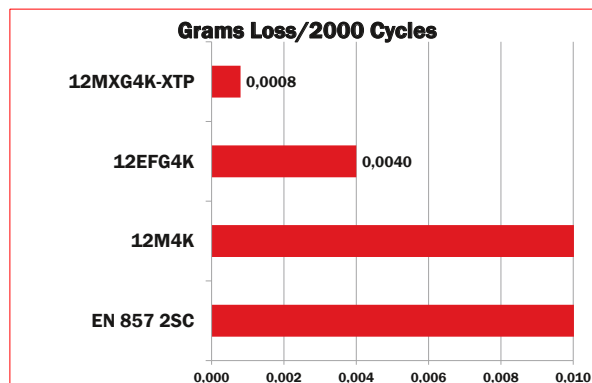
KEY BENEFITS | COMPACT DIMENSIONS

21

25X
MORE
ABRASION-RESISTANCE
THAN GATES STANDARD COVERS



NEW GATES XTRATUFF PLUS ABRASION RESISTANT COVERS



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COMPETITIVE EDGE | SAE 100 R12 PLAYERS

23


	Standard	Gates	Parker	Parker	Manuli	Semperit	Semperit	Alfa Gomma	IMM	SEL	SEL	Diesse	Hansa Flex	Vitillo
	SAE 100 R12	MXG4K	772TC	721TC	Rock Master R12	Flexline 4000	R12	Flexor12	Hypress R12	Power Stream R12+	Power Stream X- 4000	DS12	KP400	Tekno Spir/12
MWP 06 > 16 (bar)	280	280	280	280	280	280	280	280	280	280	280	280	280	280
MBR -06 (mm)	130	65	125	63	--	65	125	127	95	100	65	125	65	130
MBR -08 (mm)	180	90	180	90	--	90	180	178	110	125	90	180	90	180
MBR -10 (mm)	200	100	200	100	--	100	200	203	130	140	100	200	100	200
MBR -12 (mm)	240	120	240	120	150	120	240	241	145	150	120	240	120	240
MBR -16 (mm)	300	150	300	150	225	155	300	305	210	225	150	300	155	300
IMPULSE 06 > 16	500k	1000k	500k	500k	500k	500k	500k	500k	500k	500k	500k	500k	500k	500k

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COMPETITIVE EDGE | EN 856 4SP PLAYERS

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MXG™ 4K VERSUS HIGHLY POPULAR -16 4SP IN EUROPE

	Standard	Gates	Parker	Parker	Manuli	Semperit	Alfa Gamma	IMM	SEL	SEL	Diesse	Hansa Flex	Vitillo
	EN 856 4SP	MXG4K	701TC	H31TC	Rock Master 4SP	4SP	Flexor 4SP	Hypress 4SP	Power Stream 4SP	Power Stream 4SP+	DS4SP	HD400	Tekno Spir/4SP
MWP -16 (bar)	280	280	280	310	320	320	320	280	280	320	325	280	320
MBR -16 (mm)	340	150	340	355	340	340	340	340	340	340	340	340	340
IMPULSE	400k	1000k	400k	400k	400k	400k	400k	400k	400k	1000k	400k	400k	400k
MAX TEMP	100 °C	121 °C	100 °C	100 °C	121 °C	100 °C **	100 °C	100 °C	100 °C **	100 °C **	100 °C **	100 °C	100 °C **
MSHA	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	OPTION	OPTION	Y
SKIVE	–	NS	NS	IL	ES	–	ES	NS	–	–	–	ES	ES

Intermittent allowance to 121 °C **

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TARGET APPLICATIONS



TARGET APPLICATIONS

26


TYPES OF EQUIPMENT

- Hydrostatic Drives
- Excavators & Attachments
- Vacuum Trucks
- Boomer & Top Hammer Drills
- Hydraulic Power Packs
- Stationary Presses
- Injection Molding Machines
- Waste Compactor Trucks
- Vegetation Management

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TARGET APPLICATIONS | GLOBAL FOOTPRINT

27

BOOMER

- **SANDVIK - INDIA**
- **APPLICATION DETAILS:**
12MXG4K on dynamic mast application in boomer arms
- **CURRENT SOLUTION:** Manuli
- **WHY MXG:**
 - Flexibility
 - Abrasion Resistance


NEW

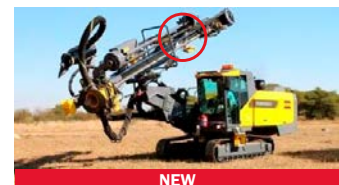
ROADSWEEPER

- **CEKSAN - TURKEY**
- **EQUIPMENT:** 12MXG4K & 16MXG4K
- **CURRENT SOLUTION:** Eaton
- **WHY MXG:**
 - Gates Support & Quality Image
 - Customer Relation


NEW

HAMMER DRILL

- **EPIROC - INDONESIA**
- **APPLICATION DETAILS:**
OEM-hose cover showing wear damage after 30 days
- **CURRENT SOLUTION:** Hydrosand
- **WHY MXG:**
 - Easier Fit
 - Abrasion Resistance


NEW

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TARGET APPLICATIONS | END MARKET COMPLIANCE (1)

28

MARINE TYPE APPROVALS

- ISO 15540 Flame Retardancy Compliance
- ABS: scheduled 08/20
- DNV-GL: scheduled 08/20



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LEAK-FREE COOLDOWN CAPABILITIES

- MXT + MegaCrimp couplings meet SAE J1754 Class B
- MXG + GlobalSpiral couplings meet SAE J1754 Class A

Class	Test Pressure	Impulse Cycles	Cool Down Test	1 st Cool Down	2 nd Cool Down	Leak Requirement
Class A	150% WP	300k	J1405 Option III	150k cycles	300k cycles	SAE J1176 Class 0
Class B	133% WP	200k	J1405 Option III	100k cycles	200k cycles	SAE J1176 Class 0
Class C	SAE J517	SAE J517	J1405 Option III	None	None	SAE J517



TARGET APPLICATIONS | END MARKET COMPLIANCE (2)

29

MINING TYPE APPROVALS

- XtraTuff Plus cover compound is MSHA-approved
- MXG4K meets FRAS requirements
 - FR: Flame Retardancy to ISO 6805 Clause 15:
The flame or glow shall not persist beyond 30 seconds after removal of the flame
 - AS: Anti-static performance to ISO 6805 Clause 14:
The electrical resistance must not exceed 2 Mohm/meter

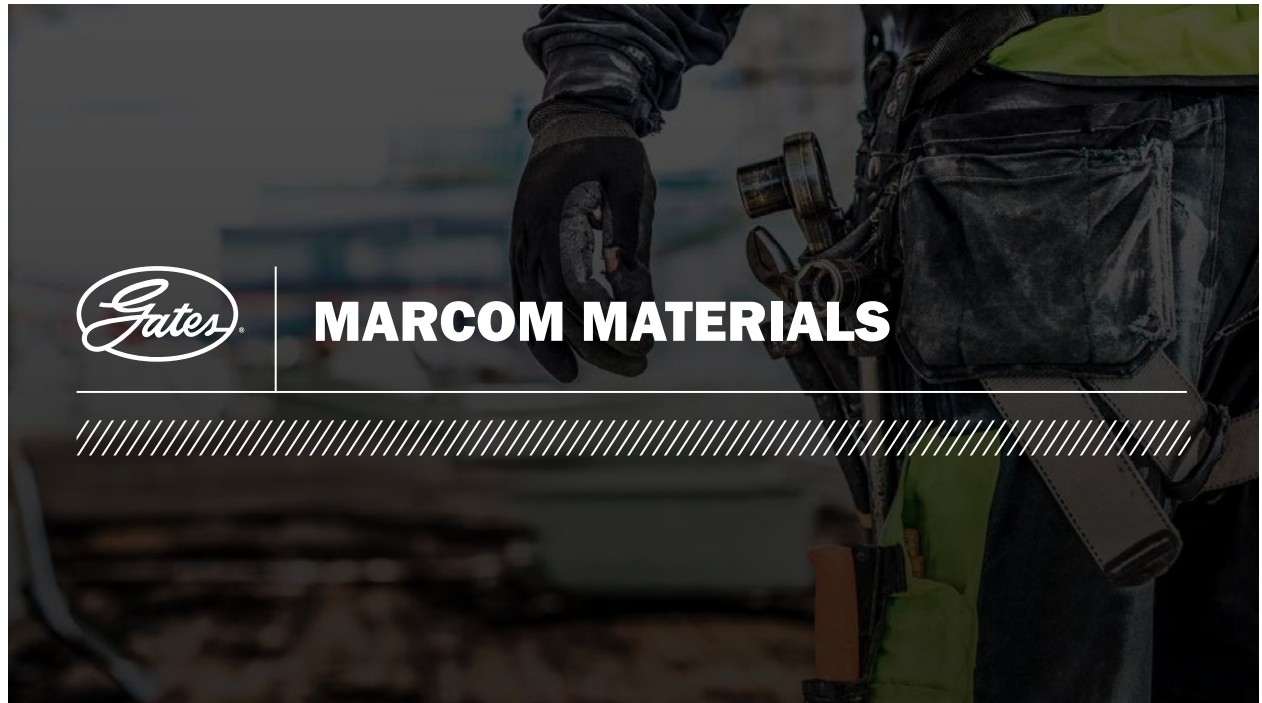


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CUSTOMER SPECIFIC

- JCB 1000/0300 Test
- Caterpillar 1E0736 Test
- ...





PRODUCT MARKETING | MXG™ 4K TOOLKIT

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TECHNICAL NOTE



INFOGRAPHICS



SELL SHEET



PRESS RELEASE



EMAIL SIGNATURE



FIELD BULLETIN

SUCCESS STORIES
PRESENTATIONTEASER & FULL
PRODUCT VIDEO

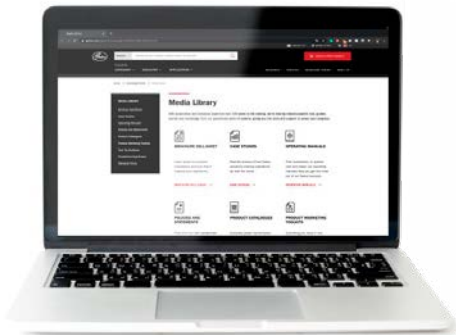
USB-CARD WITH DATA

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PRODUCT MARKETING | DETAILS

32



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YOUR **PRODUCT MARKETING TOOLKIT** CONTAINING ALL MXG 4K MARCOM COLLATERAL IN ONE ZIP-FOLDER!

- Contact your sales representative for more info
- Or download from the Gates Knowledge Centre:
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MARCOM | MEET MXG4K-XTP

33

CROSS THE PHYSICAL DIVIDE

DIRECT, PHYSICAL MAILING OF GATES-BRANDED BOX TO YOUR WORK ADDRESS, CONTAINING:

- **Product samples**
 - 8MXG4K-XTPXRL75
 - 8MXTxBALE
 - 8EFG4K
 - 8PRO2TxBALE EURO
 - 8M2TxBALE
- **Informative documentation**
- **Introduction letter**



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INTRODUCING
MEGASYS™ MXG™ 4K



HIGH-PRESSURE PERFORMANCE **REDEFINED**





SUCCESS STORIES PRESENTATION

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MXG 4K XTP SUCCESS STORIES

25-JAN-2020



MXG™ 4K SUCCESS STORY: DRILLING EQUIPMENT

2

CUSTOMER NAME: PT Epiroc Southern Asia provides aftermarket support (MRO) for the hose and fitting from all of the heavy equipment in underground mine site.

CUSTOMER TYPE/LOCATION: IR/Banyuwangi, East Java, Indonesia

INDUSTRY: Mining

TYPE OF EQUIPMENT: Top Hammer Drill

WHAT THEY LIKE ABOUT MXG 4K: Easier to fit and less wear on cover compare to existing competitor hose.

MXG 4K GENERAL DETAILS: Customer has already expressed their interest to try MXG4K on other application.

GATES CONTACT: Budi Santoso (budi.santoso@gates.com)



After 30 days:
OEM hose cover showing signs of wear. MXG 4K XTP does not show signs of wear.

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MXG™ 4K SUCCESS STORY: MINE TRUCK

3

CUSTOMER NAME: Epiroc Thailand provides aftermarket support (MRO) for the hose and fitting from all of the heavy equipment in an open-pit gold mine site.

CUSTOMER TYPE/LOCATION: IR/Laos

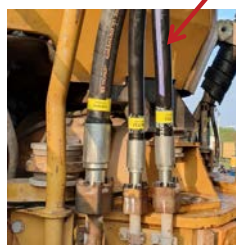
INDUSTRY: Mining

TYPE OF EQUIPMENT: Articulated Dump Truck

WHAT THEY LIKE ABOUT MXG 4K: Engineer on site love it due to the flexibility and easier to installed

MXG 4K GENERAL DETAILS: Customer ready to place an order for -12 and -16 once their stock of EFG4K depleted

GATES CONTACT: Budi Santoso (budi.santoso@gates.com)



Upon Installation



After 30 days: No wear signs

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MXG™ 4K SUCCESS STORY: ROCK BREAKER (1)

4

CUSTOMER NAME: M/s Megha Granites

CUSTOMER TYPE/LOCATION: IR/Indus Trade Link/ Kerala, India

INDUSTRY: Construction

TYPE OF EQUIPMENT: Kobelco SK220 XDLC Excavator with TOKU 151LU Breaker

WHAT THEY LIKE ABOUT MXG 4K: Flexibility & easy to fit

MXG 4K GENERAL DETAILS: 2.3 meters of 16 MXG 4K with spring guard are used in dynamic rock breaker application

GATES CONTACT: Saji Thomas (saji.thomas@gates.com)



Kobelco Excavator



Breaker Attachment



MXG Installation (LH & RH)



Dynamic Condition

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MXG™ 4K SUCCESS STORY: ROCK BREAKER (2)

5

CUSTOMER NAME: M/s United Metals

CUSTOMER TYPE/LOCATION: IR/Indus Trade Link/ Kerala , India

INDUSTRY: Construction

TYPE OF EQUIPMENT: JCB JS210 Excavator with Epiroc MB1500 Breaker

WHAT THEY LIKE ABOUT MXG 4K: Flexibility & XtraTuff Plus cover

MXG 4K GENERAL DETAILS: 2.3 meters of 16 MXG 4K with spring guard are used in dynamic rock breaker application

GATES CONTACT: Saji Thomas (saji.thomas@gates.com)



JCB JS210 Excavator



Breaker Attachment



MXG Installation (LH & RH)



Dynamic Condition

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MXG™ 4K SUCCESS STORY: ROCK BREAKER (3)

6

CUSTOMER NAME: Rashi Resources Pvt. Ltd.(RRPL)

CUSTOMER TYPE/LOCATION: IR/Jalan Hydraulic/ Guhawati, India

INDUSTRY: Construction

TYPE OF EQUIPMENT: JCB JS220 Excavator with Epiroc MB1500 Breaker

WHAT THEY LIKE ABOUT MXG 4K: Flexibility made it easy to fit into breaker

MXG 4K GENERAL DETAILS: 2.2 meters of 16 MXG 4K with spring guard are used in dynamic rock breaker application

GATES CONTACT: Abhineet Nigam (abhineet.nigam@gates.com)



JCB JS220 Excavator



Breaker Attachment



MXG Installation (LH & RH)



Dynamic Condition

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MXG™ 4K SUCCESS STORY: L2D BOOMER

7

CUSTOMER NAME: Bhatia Infra Projects Ltd

CUSTOMER TYPE/LOCATION: IR/Jalan Hydraulic/ Guhawati, India

INDUSTRY: Construction

TYPE OF EQUIPMENT: Epiroc Boomer

WHAT THEY LIKE ABOUT MXG 4K: Lighter weight; XTP cover

MXG 4K GENERAL DETAILS: 3.7 meters of 16 MXG 4K are used in dynamic boomer application in both left-hand and right-hand arms

GATES CONTACT: Abhineet Nigam (abhineet.nigam@gates.com)



Epiroc Boomer



Boomer



Rocket Boomer Left-Hand



Rocket Boomer Right-Hand

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MXG™ 4K SUCCESS STORY: BOOMER

8

CUSTOMER NAME: RVR Projects Pvt Ltd. works in diversified verticals like buildings, transportation, irrigation, water supply, tunnels and industrial structures.

CUSTOMER TYPE/LOCATION: IR/Rank/Jedcherla, Hyderabad, India

INDUSTRY: Construction

TYPE OF EQUIPMENT: SANDVIK Boomer /DT1130

WHAT THEY LIKE ABOUT MXG 4K: Flexibility & XTP cover

MXG 4K GENERAL DETAILS: 3.5 meters of 12 MXG 4K are used in dynamic mast application in boomer

GATES CONTACT: Abhineet Nigam (abhineet.nigam@gates.com)



Sandvik Boomer



Boomer

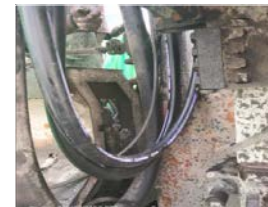


DT1130



Mast Application

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**MXG™ 4K SUCCESS STORY: WATER WELL RIG****9****CUSTOMER NAME:** Kamakhya Rig Service.**CUSTOMER TYPE/LOCATION:** IR/Jalan Hydraulic /Guhawati, India**INDUSTRY:** Drilling Rig**TYPE OF EQUIPMENT:** PRD Waterwell Rig**WHAT THEY LIKE ABOUT MXG 4K:** Flexibility & Lighter Weight**MXG 4K GENERAL DETAILS:** 5 meters of 16 MXG 4K are used in dynamic traveling block in water well rig**GATES CONTACT:** Abhineet Nigam (abhineet.nigam@gates.com)**Water Well Rig****Traveling Block****MXG Installation****Dynamic Condition**

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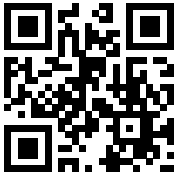
TECHNICAL NOTE & TYPE APPROVALS

(MXG 4K & MXT PASS SAE J1754 COOL DOWN TESTS / TYPE APPROVAL ABS / TYPE APPROVAL DNL-GL)

LANGUAGES.....EN
FORMATPDF
SIZELETTER (215,9 X 279,4 MM)
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FLUID POWER TECHNICAL NOTE

MXG 4K and MXT Pass SAE J1754 Cool Down Tests

Gates Delivers Advanced Performance in MXG 4K and MXT

Gates MXG™ 4K hose and MXT™ hose have both been qualified to provide leak-free performance per SAE J1754.

MXG 4K with GlobalSpiral™ GS couplings has been qualified to meet SAE J1754 class A cool-down requirements in all sizes -6 through -16.

Gates MXT hose with MegaCrimp™ couplings has been qualified to meet SAE J1754 class B cool-down requirements in all sizes -4 through -16.

Background: Leaks and the Fluid Power Industry

Eliminating leaks is one of the most critical issues in the fluid power industry. Leaks can have a negative impact on customer satisfaction including downtime, machine performance, human frustration, dirty equipment appearance and environmental costs.

Equipment and machinery OEMs, hose and coupling manufacturers and industry organizations are continually improving products, standards, assembly methods and test programs to eliminate leaks.

Evolution of Leak Requirements and Standards

The earliest test methods to check for leaks were static proof, leak and burst (using water, linear pressure increase, ambient temperature and straight assemblies.)

The more recent test method to check for leak leaks is impulse testing (using hydraulic fluid, pressure cycles, high temperature and bent assemblies.)

The most current and advanced methods to check for leak resistance combine impulse testing with cool-down cycles. The idea is to better simulate (1) the effects of heat and age on the ability of the hose to maintain a leak-free seal between the stem and ferrule, and (2) the ability of the O-rings to maintain a dry seal between the coupling, adapter and port.

SAE J1754 Cool Down Tests (Advanced Leak Tests)

The SAE J1754-1 standard was issued in 1996 to cover “steel wire reinforced rubber hose assemblies using connectors specified in SAE J516 for use in hydraulic systems using petroleum



FLUID POWER TECHNICAL NOTE

based hydraulic fluids with maximum working pressures of 1.7 to 42 MPa.” The current SAE J1754-1 revision is JUL2017.

There are five tests in the J1754-1 standard that include leak requirements. The static tests remain the same as J517, but some changes were made to the impulse tests.

1. Proof test (same as J517)
2. Burst test (same as J517)
3. Leakage test (same as J517)
4. Cold Bend test (same as J517)
5. Impulse test (added Class A, Class B and Class C specifications)

Three different classifications “determined by type of application, duty cycle, working pressure, pressure surges (spikes) above nominal system pressure, flow velocity, flexing and/or the environment in which it is used” were added to the impulse section.

- Class A: High frequency or severity of flexing and/or pressure impulse cycles.
- Class B: Normal frequency or severity of flexing and/or pressure impulse cycles.
- Class C: Meets SAE J517 impulse test requirements.

The test pressures, number of impulse cycles, cool-down cycles and leak requirements vary for each classification of hose per the below table.

Class	Test Pressure	Impulse Cycles	Cool Down Test	1 st Cool Down	2 nd Cool Down	Leak Requirement
Class A	150% WP	300k	J1405 Option III	150k cycles	300k cycles	SAE J1176 Class 0
Class B	133% WP	200k	J1405 Option III	100k cycles	200k cycles	SAE J1176 Class 0
Class C	SAE J517	SAE J517	J1405 Option III	None	None	SAE J517

Additional Information

Please see Gates Tech Note “FPTN009401 - SAE Leak Test Standards” for additional information about industry standards for leak tests.

Should you have any questions or concerns regarding Gates hydraulic and industrial hose products, please contact Product Application in Denver, Colorado at (303) 744-5070 or by e-mail at FPPASUPPORT@gates.com.



CERTIFICATE NUMBER	20-2044694-PDA
EFFECTIVE DATE	16-Oct-2020
EXPIRY DATE	15-Oct-2025
ABS TECHNICAL OFFICE	Houston ESD - Piping

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

GATES CORPORATION

located at

**330 INVERNESS DRIVE SOUTH, ENGLEWOOD, CO, United States,
80112**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product Non-Metallic Flexible Hoses with End Fittings

Model MXG 4K XTP

This Product Design Assessment (PDA) Certificate remains valid until 15/Oct/2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Yongjin Lee, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Flexible Hoses of Non-Metallic Material with Permanently Fitted Couplings**with type designation(s)
MXG4K XTP

Issued to

Gates UK Ltd
St. Neots, Cambridgeshire, United Kingdom

is found to comply with

DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems
DNVGL-OS-D101 – Marine and machinery systems and equipment, Edition January 2018
DNV GL class programme DNVGL-CP-0183 – Type approval – Flexible hoses**Application :****Product(s) approved by this certificate is/are accepted for installation on vessels classed by DNV GL.****Temperature range:** -40°C to +121°C (see page 2)
Max. working press.: 280 bar(g)
Sizes: DN10, 12, 16, 19 and 25Issued at **Høvik** on **2020-10-12**This Certificate is valid until **2025-10-11**.DNV GL local station: **Manchester**Approval Engineer: **Maheshraja Venkatesan**for **DNV GL**

Digitally Signed By: Zeinab Sharifi

Location: DNV GL Høvik, Norway

Zeinab Sharifi
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.





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INCREASED
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LIGHTER



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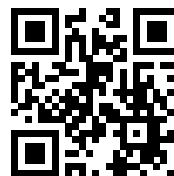
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- Hydraulic tube fittings
- Integrated fluid power catalogue
- Multi Master GMV MegaFlex
- MXT
- PRO Series
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