



FIELD BULLETIN 180

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.



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:

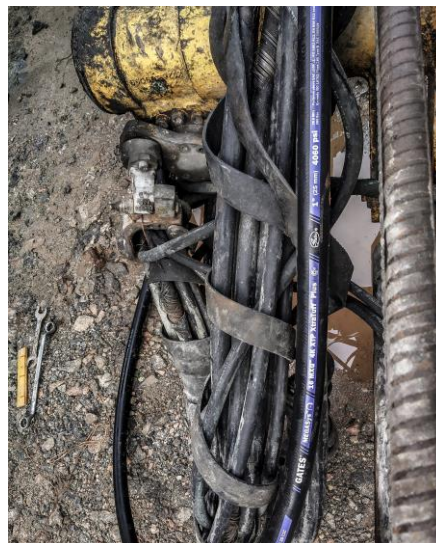
- **Less force-to-bend, faster to install and easier to route**, which increases productivity and reduces the risk of leaks;
- **More ergonomic assemblies and warehouse handling**, reducing fatigue during fabrication and installation.

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

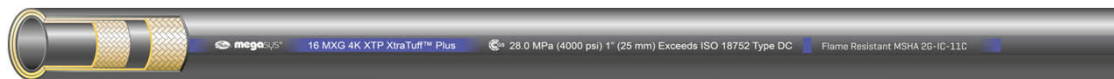




In the attached documents you will find our new MXG 4K sell sheet and hose catalogue page with further details. A complete pack of support materials including videos, infographics, ... is available on request as a customer toolbox. Crimp data is on <http://ecrimp.gates.eu>, logistical and price details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

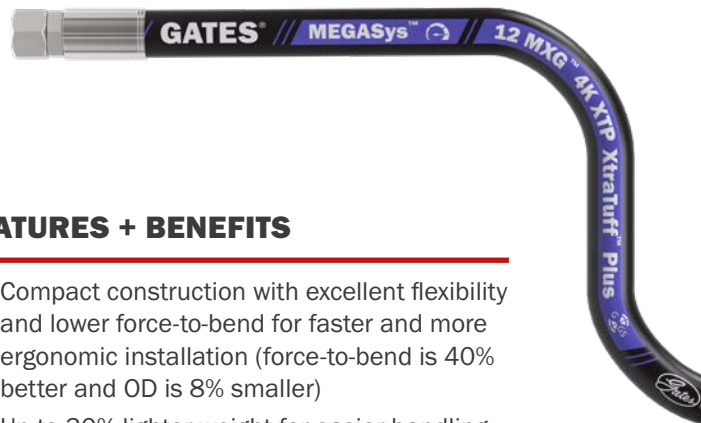
Built with our proprietary wire-braid process technology, MegaSys™ MXG™ 4K hose is lightweight, highly flexible, and qualified to ONE MILLION impulse cycles — it's a drop-in replacement for conventional spiral hoses.

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

											
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