

EFG6K

MEGASYS



-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-6	10	3/8	0.80	20.2	6000	42.0	24000	168.0	65	71	6EFG6K
-8	12	1/2	0.95	24.0	6000	42.0	24000	168.0	90	89	8EFG6K
-10	16	5/8	1.09	27.6	6000	42.0	24000	168.0	100	115	10EFG6K
-12	19	3/4	1.24	31.4	6000	42.0	24000	168.0	120	144	12EFG6K
-16	25	1	1.53	38.7	6000	42.0	24000	168.0	150	223	16EFG6K
-20	31	1.1/4	1.97	50.0	6000	42.0	24000	168.0	210	399	20EFG6K
-24	38	1.1/2	2.26	57.4	6000	42.0	24000	168.0	250	482	24EFG6K

RECOMMENDED FOR

Extremely high pressure and high impulse applications such as hydrostatic transmissions.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

Four (six for -20, -24) alternating layers of spiralled, high tensile steel wire.

COVER

CR (Chloroprene) based. MSHA approved.

TEMPERATURE RANGE

-40°C to +121°C. For water emulsions, etc. see page 86.

STANDARDS

Gates proprietary. SAE 100R15. ISO 3862 R15. Meets or exceeds performance requirements of EN 856 4SP (-8) and EN 856 4SH (-12, -16).

COUPLINGS

-6 to -20: GlobalSpiral™; -24: GlobalSpiral™ High.

TYPE APPROVALS

DNV, GL, LR, BV, ABS and MOD.

CHARACTERISTICS/BENEFITS

Extremely flexible.

Superior flex impulse performance: tested to 1,000,000 impulse cycles at 50% of SAE 100R15 bend radii.

40% of EN 856 4SP/4SH bend radius at rated working pressure.

EFG6K hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

OPTIONAL



EFG6K-MTF: the complete range of EFG6K is also available with the Gates special MegaTuff™ cover which offers 300 times the abrasion resistance of the standard EFG6K cover as per ISO 6945, superior ozone and weathering resistance.

IMPORTANT



Please consult Gates Product Application Engineers for use of MegaTuff™ hose in reverse bending applications or for constant bending at minimum bend radius.

EFG5K

MEGASYS



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-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.	
-6	10	3/8	0.80	20.2	5000	35.0	20000	140.0	65	71	6EFG5K	
-8	12	1/2	0.95	24.0	5000	35.0	20000	140.0	90	89	8EFG5K	
-10	16	5/8	1.09	27.6	5000	35.0	20000	140.0	100	115	10EFG5K	
-12	19	3/4	1.24	31.4	5000	35.0	20000	140.0	120	144	12EFG5K	
-16	25	1	1.53	38.7	5000	35.0	20000	140.0	150	223	16EFG5K	
-20	31	1.1/4	1.97	50.0	5000	35.0	20000	140.0	210	399	20EFG5K	
-24	38	1.1/2	2.26	57.4	5000	35.0	20000	140.0	250	482	24EFG5K	
-32	51	2	2.80	71.1	5000	35.0	20000	140.0	315	719	32EFG5K	

RECOMMENDED FOR

Extremely high pressure and high impulse hydraulic applications.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

Four (six for -20 to -32) alternating layers of spiralled, high tensile steel wire.

COVER

CR (Chloroprene) based. MSHA approved.

TEMPERATURE RANGE

-40°C to +121°C. For water emulsions, etc. see page 86.

STANDARDS

Gates proprietary. EN 856 R13. SAE 100R13. ISO 3862 R13. Meets or exceeds performance requirements of EN 856 4SP (-10, -12) and EN 856 4SH (-20).

COUPLINGS

-6 to -20: GlobalSpiral™; -24, -32: GlobalSpiral™ High.

TYPE APPROVALS

DNV, GL, LR, BV, ABS and MOD.

CHARACTERISTICS/BENEFITS

Extremely flexible.

Superior flex impulse performance: tested to 1,000,000 impulse cycles at 50% of EN 856 R13 and SAE 100R13 bend radii.

40% of EN 856 4SP/4SH bend radius at rated working pressure.

EFG5K hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

OPTIONAL



EFG5K-MTF: the complete range of EFG5K is also available with the Gates special MegaTuff™ cover which offers 300 times the abrasion resistance of the standard EFG5K cover as per ISO 6945, superior ozone and weathering resistance.

IMPORTANT



Please consult Gates Product Application Engineers for use of MegaTuff™ hose in reverse bending applications or for constant bending at minimum bend radius.

EFG4K

MEGASYS



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-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-6	10	3/8	0.80	20.2	4000	28.0	16000	112.0	65	71	6EFG4K
-8	12	1/2	0.95	24.0	4000	28.0	16000	112.0	90	89	8EFG4K
-10	16	5/8	1.09	27.6	4000	28.0	16000	112.0	100	113	10EFG4K
-12	19	3/4	1.21	30.7	4000	28.0	16000	112.0	120	128	12EFG4K
-16	25	1	1.50	38.0	4000	28.0	16000	112.0	150	188	16EFG4K
-20	31	1.1/4	1.85	47.0	4000	28.0	16000	112.0	210	283	20EFG4K

RECOMMENDED FOR

Extremely high pressure and high impulse hydraulic applications.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

Four alternating layers of spiralled, high tensile steel wire.

COVER

CR (Chloroprene) based. MSHA approved.

TEMPERATURE RANGE

-40°C to +121°C. For water emulsions, etc. see page 86.

STANDARDS

Gates proprietary. EN 856 R12. SAE 100R12. ISO 3862 R12. Meets or exceeds performance requirements of EN 856 4SP (-16, -20).

COUPLINGS

GlobalSpiral™.

TYPE APPROVALS

DNV, GL, LR, BV, ABS and MOD.

CHARACTERISTICS/BENEFITS

Most flexible EN 856 R12 / SAE 100R12 hose in the industry.

Superior flex impulse performance: tested to 1,000,000 impulse cycles at 50% of EN 856 R12 and SAE 100R12 bend radii.

40% of EN 856 4SP bend radii.

EFG4K hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

OPTIONAL



EFG4K-MTF: the complete range of EFG4K is also available with the Gates special MegaTuff™ cover which offers 300 times the abrasion resistance of the standard EFG4K cover as per ISO 6945, superior ozone and weathering resistance.

IMPORTANT



Please consult Gates Product Application Engineers for use of MegaTuff™ hose in reverse bending applications or for constant bending at minimum bend radius.

EFG3K

MEGASYS



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-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-20	31	1.1/4	1.85	47.0	3000	21.0	12000	84.0	210	282	20EFG3K
-24	38	1.1/2	2.11	53.6	3000	21.0	12000	84.0	250	320	24EFG3K
-32	51	2	2.63	66.8	3000	21.0	12000	84.0	315	439	32EFG3K

RECOMMENDED FOR

Extremely high pressure and high impulse hydraulic applications.

TUBE

-20 to -32: NBR (Nitrile) based.

REINFORCEMENT

Four alternating layers of spiralled, high tensile steel wire.

COVER

CR (Chloroprene) based. MSHA approved.

TEMPERATURE RANGE

-40°C to +121°C. For water emulsions, etc. see page 86.

STANDARDS

Gates proprietary. EN 856 R12. SAE 100R12. ISO 3862 R12. Meets or exceeds performance requirements of EN 856 4SP.

COUPLINGS

-20: GlobalSpiral™; -24 to -32: GlobalSpiral™ Plus.

TYPE APPROVALS

DNV, GL, LR, BV, ABS and MOD.

CHARACTERISTICS/BENEFITS

Extremely flexible.

Superior flex impulse performance: tested to 1,000,000 impulse cycles at 50% of EN 856 R12 and SAE 100R12 bend radii.

40% of EN 856 4SP bend radius at rated working pressure.

EFG3K hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

OPTIONAL



EFG3K-MTF: the complete range of EFG3K is also available with the Gates special MegaTuff™ cover which offers 300 times the abrasion resistance of the standard EFG3K cover as per ISO 6945, superior ozone and weathering resistance.

IMPORTANT



Please consult Gates Product Application Engineers for use of MegaTuff™ hose in reverse bending applications or for constant bending at minimum bend radius.

M6K

MEGASYS



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-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.	
-4	6	1/4	0.58	14.9	6000	42.0	24000	168.0	50	35	4M6K	

**RECOMMENDED FOR**

High pressure hydraulic applications. Easy to route and to install in tight areas.

**TUBE**

NBR (Nitrile) based.

**REINFORCEMENT**

Two braids of high tensile steel wire.

**COVER**

NBR/PVC based. MSHA approved.

**TEMPERATURE RANGE**

-40°C to +100°C constant and +121°C intermittent. For water emulsions, etc. see page 86.

**STANDARDS**

Gates proprietary. Meets or exceeds EN 857 2SC and ISO 11237 performance requirements.

**COUPLINGS**

MegaCrimp®.

**TYPE APPROVALS**

DNV, GL, LR, BV and MOD.

**CHARACTERISTICS/BENEFITS**

70% of EN 857 2SC and 50% of EN 853 2SN bend radius at rated working pressure.

Superior flex impulse performance: tested to 600,000 impulse cycles.

Lightweight.

M6K hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

M5K

MEGASYS



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-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.54	13.7	5000	35.0	20000	140.0	50	30	4M5K
-5	8	5/16	0.61	15.4	5000	35.0	20000	140.0	55	34	5M5K
-6	10	3/8	0.69	17.5	5000	35.0	20000	140.0	65	41	6M5K
-8	12	1/2	0.86	21.9	5000	35.0	20000	140.0	90	66	8M5K

RECOMMENDED FOR

High pressure hydraulic applications. Easy to route and to install in tight areas.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

Two braids of high tensile steel wire.

COVER

NBR/PVC based. MSHA approved.

TEMPERATURE RANGE

-40°C to +100°C constant and +121°C intermittent. For water emulsions, etc. see page 86.

STANDARDS

Gates proprietary. Meets or exceeds EN 857 2SC and ISO 11237 performance requirements.

COUPLINGS

MegaCrimp®.

TYPE APPROVALS

DNV, GL, LR, BV and MOD.

CHARACTERISTICS/BENEFITS

70% of EN 857 2SC and 50% of EN 853 2SN bend radius at rated working pressure.

Superior flex impulse performance: tested to 600,000 impulse cycles.

Lightweight.

M5K hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

OPTIONAL



4M5K is also available with the Gates special MegaTuff™ cover which offers 300 times the abrasion resistance of the standard 4M5K cover as per ISO 6945, superior ozone and weathering resistance. 4M5K-MTF is also suitable for in-oil (submersible) applications.

## M4K

## MEGASYS



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-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.	
-4	6	1/4	0.54	13.7	4000	28.0	16000	112.0	50	33	4M4K	
-5	8	5/16	0.61	15.4	4000	28.0	16000	112.0	55	34	5M4K	
-6	10	3/8	0.69	17.5	4000	28.0	16000	112.0	65	46	6M4K	
-8	12	1/2	0.82	20.8	4000	28.0	16000	112.0	90	51	8M4K	
-10	16	5/8	0.98	25.0	4000	28.0	16000	112.0	100	74	10M4K	
-12	19	3/4	1.15	29.1	4000	28.0	16000	112.0	120	93	12M4K	

### RECOMMENDED FOR

High pressure hydraulic applications. Easy to route and to install in tight areas.

### TUBE

NBR (Nitrile) based.

### REINFORCEMENT

Two braids of high tensile steel wire.

### COVER

NBR/PVC based. MSHA approved.

### TEMPERATURE RANGE

-40°C to +100°C constant and +121°C intermittent. For water emulsions, etc. see page 86.

### STANDARDS

SAE 100R19. ISO 11237 R19. Meets or exceeds EN 857 2SC performance requirements.

### COUPLINGS

MegaCrimp®.

### TYPE APPROVALS

DNV, GL, LR, BV, ABS and MOD.

### CHARACTERISTICS/BENEFITS

70% of EN 857 2SC and 50% of EN 853 2SN bend radius at rated working pressure.

Superior flex impulse performance: tested to 600,000 impulse cycles.

Lightweight.

Alternative to spiral hoses in high pressure lines where flexibility is required.

M4K hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

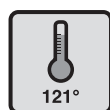
### OPTIONAL



M4K-MTF: the complete range of M4K is also available with the Gates special MegaTuff™ cover which offers 300 times the abrasion resistance of the standard M4K cover as per ISO 6945, superior ozone and weathering resistance. M4K-MTF is also suitable for in-oil (submersible) applications.



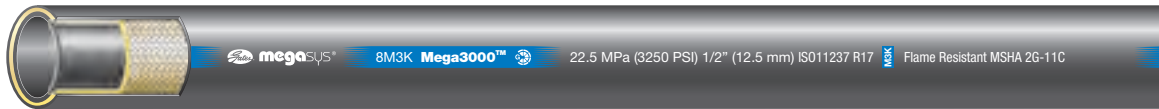
M4K-XTF: the complete range of M4K is also available with the Gates special XtraTuff™ cover which offers 25 times the abrasion resistance of the standard M4K cover as per ISO 6945.



M4KH: for high-temperature applications, Gates recommends the M4KH hose range up to 121°C constant. Please refer to page 47.

M3K

MEGASYS



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-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.48	12.2	3250	22.5	13000	90.0	50	17	4M3K
-5	8	5/16	0.59	15.1	3250	22.5	13000	90.0	55	26	5M3K
-6	10	3/8	0.63	16.0	3250	22.5	13000	90.0	65	28	6M3K
-8	12	1/2	0.80	20.2	3250	22.5	13000	90.0	90	41	8M3K
-10	16	5/8	0.99	25.2	3250	22.5	13000	90.0	100	73	10M3K
-12	19	3/4	1.14	29.0	3250	22.5	13000	90.0	120	91	12M3K
-16	25	1	1.48	37.7	3250	22.5	13000	90.0	150	155	16M3K

RECOMMENDED FOR

High pressure hydraulic applications. Easy to route and to install in tight areas.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

-4 to -8: one braid of high tensile steel wire; -10 to -16: two braids of high tensile steel wire.

COVER

NBR/PVC based. MSHA approved.

TEMPERATURE RANGE

-40°C to +100°C constant and +121°C intermittent. For water emulsions, etc. see page 86.

STANDARDS

SAE 100R17. ISO 11237 R17. Meets or exceeds EN 857 1SC/2SC performance requirements.

COUPLINGS

MegaCrimp®.

TYPE APPROVALS

DNV, GL, LR, BV, ABS and MOD.

CHARACTERISTICS/BENEFITS

70% of EN 857 1SC/2SC and 50% of EN 853 1SN/2SN bend radius at rated working pressure.

Exceeds working pressure requirements of R17.

Superior flex impulse performance: tested with MegaCrimp® to 600,000 impulse cycles.

Lightweight.

M3K hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

OPTIONAL



M3K-MTF: the complete range of M3K is also available with the Gates special MegaTuff™ cover which offers 300 times the abrasion resistance of the standard M3K cover as per ISO 6945, superior ozone and weathering resistance. M3K-MTF is also suitable for in-oil (submersible) applications.



M3K-XTF: the complete range of M3K is also available with the Gates special XtraTuff™ cover which offers 25 times the abrasion resistance of the standard M3K cover as per ISO 6945.

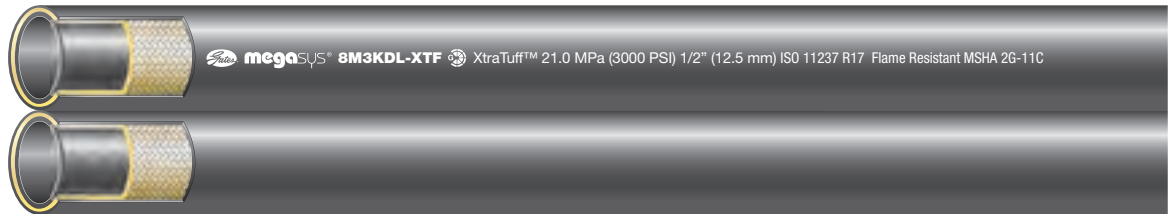


M3KH: for high-temperature applications, Gates recommends the M3KH hose range up to 121°C constant. Please refer to page 48.



# M3KDL-XTF

MEGASYS



-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.48	12.2	3000	21.0	12000	84.0	50	54	4M3KDL-XTF
-6	10	3/8	0.63	16.0	3000	21.0	12000	84.0	65	55	6M3KDL-XTF
-8	12	1/2	0.80	20.2	3000	21.0	12000	84.0	90	80	8M3KDL-XTF

**RECOMMENDED FOR**

High pressure hydraulic applications. Easy to route and to install in tight areas.

**TUBE**

NBR (Nitrile) based.

**REINFORCEMENT**

One braid of high tensile steel wire

**COVER**

XtraTuff™. MSHA approved.

**TEMPERATURE RANGE**

-40°C to +100°C constant and +121°C intermittent. For water emulsions, etc. see page 86.

**STANDARDS**

SAE 100R17. ISO 11237 R17. Meets or exceeds EN 857 1SC performance requirements.

**COUPLINGS**

MegaCrimp®.

**CHARACTERISTICS/BENEFITS**

70% of EN 857 1SC and 50% of EN 853 1SN bend radius at rated working pressure.

Superior flex impulse performance: tested with MegaCrimp® to 600,000 impulse cycles. Lightweight.

M3K hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

Gates special XtraTuff™ cover which offers 25 times the abrasion resistance of the standard M3K cover as per ISO 6945.

**IMPORTANT**



**Gates recommends minimum split length of 250 mm depending on the application. Do not expose hose reinforcement when splitting hoses.**