



Kuriyama of America, Inc.

# Metal Hose Products

Featuring

HOSE TEC<sup>®</sup> **TOUGH** Metal Hose<sup>™</sup>

**EDITION 0309**

KMHCA0309

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## WHY METAL HOSE?

- **Cost Savings** - in many cases, metal hose can offer significant cost savings compared to other heavy duty material handling hoses.
- **Abrasion Resistant** - High durability, better wear than plastic or rubber hoses.
- **Temperature Extremes** - Very high temp range for media going through hose or environment hose is in (atmospheric).
- **Chemical Compatibility** - Metal hose can handle a wide range of very aggressive chemicals.
- **Protection** - Used as protective armor, bend restrictor, blow-out or hot splash protection.

Application	HT1100	HT3000	HT4000	RIDGELINE <sup>™</sup>	HT5000	GEM♦FLEX <sup>™</sup>
Shielding for Wiring	✓					
Protective Armor	✓		✓	✓		
Fume Hood Exhaust		✓	✓	✓		
Industrial Dryer Vents		✓	✓	✓		
Oven/Kiln Exhaust		✓	✓	✓		
Garage Fume Exhaust Collection		✓	✓	✓		
Air Intake Supply		✓	✓	✓		
Temporary Spot Air Conditioning Ducts		✓	✓	✓		
Dust/Fume Collection		✓	✓	✓		
Hot Air Ducting		✓	✓	✓		
Engine Exhaust			✓	✓		
Hot Air Blower/Suction			✓	✓		
Fly Ash Removal			✓	✓		
Blowout Protection			✓	✓		
Steam Hose Protection	✓		✓	✓		
Liner for Corrugated/Braided Assemblies			✓	✓		
Pneumatic Dry Bulk Unloading (Plastic Pellets, Grain)			✓	✓	✓	✓
Hot Material Transfer			✓	✓	✓	✓
Bulk Unloading of Highly Abrasive Materials			✓	✓	✓	✓

## CAUTION

**NOTE:** This application guide provides information on typical flexible metal hose applications. Actual results may vary due to variances in the operating conditions involving temperature, chemical resistance, abrasiveness of the material being handled, working pressure, handling requirements, etc. Please refer to the specifications printed for each product in this catalog and our Cautionary Statement (see page 19), to better insure successful results.

**NOTE:** For questions regarding chemical resistance please call Hose Technology at 1-800-878-5501.

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## Introducing the New GEM♦FLEX™ "Torque-Resistant" Hose

*"When you see the ♦ diamond, you'll know it's the GEM♦FLEX™ Hose by Hose Tec®."*

Our unique hose design and manufacturing process offers the highest resistance to torque pressures - helps keep the hose from twisting out of shape. Gem♦Flex can also be field cut without the hose opening and unwinding. Look for the ♦ diamond shaped identifier on the outside of the hose.

### Construction: Rough Bore (Unlined)

- A single metal strip is formed to create a flexible interlocked metal hose that offers maximum flexibility and strength, as well as superior service life.
- Available in Galvanized steel and Series 300 Stainless steel with a strip thickness of .017" to .020", equal to 4200 Series hose.



Rough Bore (Unlined)

### Construction: Smooth Bore (Lined)

- An armor strip is combined with a strip of liner material and formed to create a lined flexible interlocked metal hose that offers superior strength and abrasion-resistance.
- Available in Galvanized and Series 300 Stainless steel with strip thicknesses of: Series 5150 (.015" Armor/.015" Liner) Series 5180 (.018" Armor/.015" Liner).



Smooth Bore (Lined)

### Features:

- Extends hose service life.
- Resists torque pressures (damage by hose twisting).
- Hose will not unwind when field cut.
- Available in I.D. sizes 3" through 12".
- Greater seal-ability than standard packed hoses.
- Same bend radius as standard Lined and Unlined hoses.

### Applications:

- Pneumatic dry bulk unloading of grains, pellets, powders and dry chemicals.

- Ideal hose for general bulk unloading applications.
- Transfer of hot materials (not for hot tar or asphalt).
- Bulk unloading of highly abrasive materials.
- Plastic pellet transfer.

### Maximum Service Temperature:

- Galvanized steel: Up to 750°F
- Series 300 Stainless steel: Up to 1500°F

For questions regarding other Stainless steel material options please call Hose Technology at 1-800-878-5501.

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## SPECIFICATIONS

(Weights & bend diameters are based on extended hose and are approximate)

### GEM FLEX<sup>™</sup> “Torque-Resistant” Rough Bore (Unlined) Hose

Part Number	I.D.	Series	Material	Length	Min. Inside Bend Dia. (Inches)	Weight per foot (lbs.)
DG203X25	3"	4200	Galv	25'	22.0	2.0
DG204X25	4"	4200	Galv	25'	29.0	2.6
DG205X25	5"	4200	Galv	25'	34.0	3.0
DG206X25	6"	4200	Galv	25'	44.0	3.6
DG207X25	7"	4200	Galv	25'	50.0	4.2
DG208X25	8"	4200	Galv	25'	56.0	4.7
DG2010X25	10"	4200	Galv	25'	65.0	5.9
DG2012X25	12"	4200	Galv	25'	76.0	7.0

### GEM FLEX<sup>™</sup> “Torque-Resistant” Rough Bore (Unlined) Hose

Part Number	I.D.	Series	Material	Length	Min. Inside Bend Dia. (Inches)	Weight per foot (lbs.)
DS203X25	3"	4200	SS	25'	22.0	2.0
DS204X25	4"	4200	SS	25'	29.0	2.6
DS205X25	5"	4200	SS	25'	34.0	3.0
DS206X25	6"	4200	SS	25'	44.0	3.6
DS207X25	7"	4200	SS	25'	50.0	4.2
DS208X25	8"	4200	SS	25'	56.0	4.7
DS2010X25	10"	4200	SS	25'	65.0	5.9
DS2012X25	12"	4200	SS	25'	76.0	7.0

### GEM FLEX<sup>™</sup> “Torque-Resistant” Smooth Bore (Lined) Hose - with Directional Flow Arrows

Part Number	I.D.	Series	Material Armor/Liner	Length	Min. Inside Bend Dia. (Inches)	Weight per foot (lbs.)
DSS154X25	4"	5150	SS/SS	25'	30.0	4.0
DGS155X25	5"	5150	Galv/SS	25'	37.0	4.10
DGG156X25	6"	5150	Galv/Galv	25'	44.0	4.90
DSS184X25	4"	5180	SS/SS	25'	32.0	3.6
DGS185X25	5"	5180	Galv/SS	25'	41.0	4.7
DGG186X25	6"	5180	Galv/Galv	25'	49.0	5.6

#### DIRECTIONAL FLOW ARROWS

ARROW COLOR	ARMOR/LINER
RED	SS/SS
BLUE	GALV/SS
BLACK	GALV/GALV

NOTE: Standard lengths are 25 ft. **extended**; Cut lengths available on request.

NOTE: All I.D.'s of 5150 and 5180 Series hoses are available in all armor/liner configuration options (SS/SS, Galv/SS and Galv/Galv).

Please refer to the back page for the location of your nearest warehouse for availability of products/sizes shown.

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## Introducing the New RIDGELINE™ Multi-Sided Extra Flexible Hose

Hose Technology has created this unique manufacturing process that allows for extreme flexibility on standard rough bore (unlined) series hose. This manufacturing process also allows for field cuts to be made with minimal to no opening or unwinding of the hose.

### Construction:

- A single metal strip is formed to create a flexible interlocked metal hose that offers maximum flexibility and strength, as well as superior service life.
- Available in Galvanized steel and Series 300 Stainless steel construction, with strip thickness of .017" to .020", equal to 4200 Series hose.

### Maximum Service Temperature:

- Galvanized steel: Up to 750°F
- Series 300 Stainless steel: Up to 1500°F

For questions regarding other Stainless steel material options please call Hose Technology at 1-800-878-5501.

### Features:

- Greater flexibility than standard interlocked hose.
- Currently available in 4" and 5" I.D.'s.
- Allows field cuts with minimal to no opening or unwinding of the hose.
- Seal-ability equal to packed hoses.

### Applications:

- Grain transfer.
- Hot air ducting.
- Conveyance of chips and plastic pellets.
- Bulk unloading of highly abrasive materials.
- Exhaust applications.



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## SPECIFICATIONS

(Weights & bend diameters are based on extended hose and are approximate)

RIDGELINE™ Multi-Sided Extra Flexible Hose					BULK LENGTHS	
Part Number	I.D.	Series	Material	Length*	Min. Inside Bend Dia. (Inches)	Weight per foot (lbs.)
RLG204X25	4"	4200	Galv	25'	29.0	2.60
RLG205X25	5"	4200	Galv	25'	34.0	3.00
RLS204X25	4"	4200	SS	25'	29.0	2.60
RLS205X25	5"	4200	SS	25'	34.0	3.00

NOTE: Standard lengths are 25 ft. extended.

RIDGELINE™ Multi-Sided Extra Flexible Hose				PRE-CUT LENGTHS	
Part Number	I.D.	Series	Material	Length*	Weight per foot (lbs.)
RLG204x12IN	4"	4200	Galv	12"	2.6
RLG204X18IN	4"	4200	Galv	18"	3.9
RLG204X24IN	4"	4200	Galv	24"	5.2
RLG204X30IN	4"	4200	Galv	30"	6.5
RLG204X36IN	4"	4200	Galv	36"	7.8
RLG204X48IN	4"	4200	Galv	48"	10.4
RLG205X12IN	5"	4200	Galv	12"	3
RLG205X18IN	5"	4200	Galv	18"	4.5
RLG205X24IN	5"	4200	Galv	24"	6
RLG205X30IN	5"	4200	Galv	30"	7.5
RLG205X36IN	5"	4200	Galv	36"	9
RLG205X48IN	5"	4200	Galv	48"	12
RLS204X12IN	4"	4200	SS	12"	2.6
RLS204X18IN	4"	4200	SS	18"	3.9
RLS204X24IN	4"	4200	SS	24"	5.2
RLS204X30IN	4"	4200	SS	30"	6.5
RLS204X36IN	4"	4200	SS	36"	7.8
RLS204X48IN	4"	4200	SS	48"	10.4
RLS205X12IN	5"	4200	SS	12"	3
RLS205X18IN	5"	4200	SS	18"	4.5
RLS205X24IN	5"	4200	SS	24"	6
RLS205X30IN	5"	4200	SS	30"	7.5
RLS205X36IN	5"	4200	SS	36"	9
RLS205X48IN	5"	4200	SS	48"	12

NOTE: Standard pre-cut piece lengths are extended.

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# HT1100 Series Flexible "Floppy Guard" Interlocked Metal Hose

**HOSE TEC® TOUGH**  
METAL HOSE™



For interlocked metal hose applications requiring a more flexible hose, HT1100's unique single-strip floppy-type construction allows maximum flexibility.

## Construction:

- A single metal strip is loosely interlock-wound to create an extremely flexible interlocked metal hose.
- Available in Galvanized steel and Series 300 Stainless steel.

## Features:

- Extremely flexible and light weight.
- Wide range of operating temperatures.
- Available in mill run and special cut lengths.

## Applications:

- Shielding for wiring where flexibility is important.
- Protective armor for corrugated hose and braid.
- Protective armor for plastic and rubber hoses.
- Beverage dispenser hose armor.

## Maximum Service Temperature:

- Galvanized steel: Up to 750°F
- Series 300 Stainless steel: Up to 1500°F

For questions regarding other Stainless steel material options please call Hose Technology at 1-800-878-5501.

## Catalog Series Numbers:

HTG1100 — Galvanized — .010" – .012" strip thickness

HTS1100 — Series 300 Stainless steel — .010" – .012" strip thickness

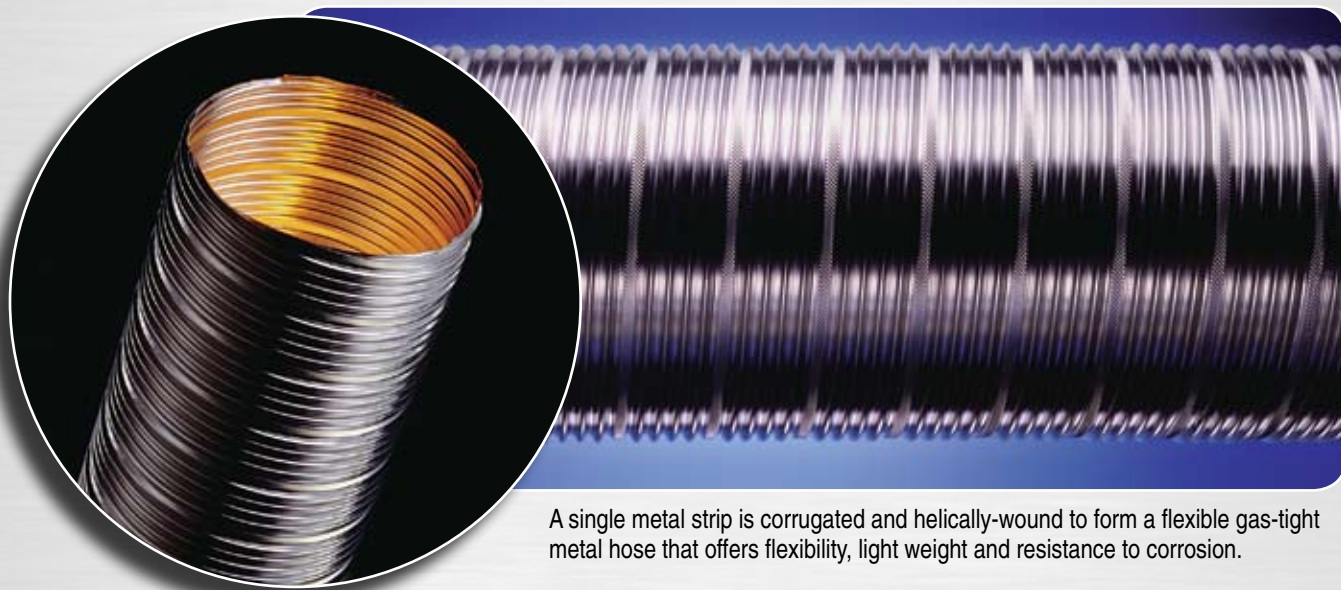
## SPECIFICATIONS (Weights and bend diameters are based on extended hose and are approximate)

Hose Size I. D. (In.)	HTG1100/HTS1100		Hose Size I. D. (In.)	HTG1100/HTS1100	
	Min. Inside Bend Dia. (In.)	Wt. per foot (lbs.)		Min. Inside Bend Dia. (In.)	Wt. per foot (lbs.)
3/16	1.5	.08	1 1/8	9.0	.32
1/4	2.0	.10	1 1/4	10.0	.36
5/16	2.5	.12	1 3/8	11.0	.42
3/8	3.0	.14	1 1/2	12.0	.48
1/2	4.5	.16	1 5/8	13.0	.52
5/8	5.5	.18	1 3/4	14.0	.58
3/4	6.0	.20	1 7/8	15.0	.62
7/8	7.0	.23	2	16.0	.66
1	7.5	.28	2 1/4	19.0	.76

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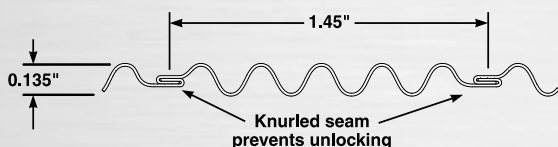




A single metal strip is corrugated and helically-wound to form a flexible gas-tight metal hose that offers flexibility, light weight and resistance to corrosion.

### Construction:

- 316L Stainless steel.
- Aluminum



### Features:

- Good air-handling characteristics . . . low friction loss and minimal air leakage.

### Applications:

- Garage fume exhaust collection.
- Fresh air supply for air intake.
- Temporary spot air conditioning ducts.

### Maximum Service Temperature:

- Aluminum: Up to 600°F
- 316L Stainless steel: Up to 1500°F

## SPECIFICATIONS (Weights and bend diameters are based on extended hose and are approximate)

Hose Size I. D. (Inches)	Series and Strip Thickness			
	HTA3008 .007" – .008" Aluminum		HTS3007 .006" – .007" SS	
	Minimum Inside Bend Dia. (Inches)	Weight per foot (lbs.)	Minimum Inside Bend Dia. (Inches)	Weight per foot (lbs.)
3	4.5	.15	6.0	.40
3½	5.2	.17	–	–
4	6.0	.20	8.0	.50
4½	6.8	.22	–	–
5	7.5	.25	10.0	.63
5½	8.2	.27	11.0	.70
6	9.0	.28	12.0	.75
7	10.5	.33	14.0	.86
8	12.0	.38	16.0	1.00
9	13.5	.40	18.0	1.15
10	15.0	.45	20.0	1.27
12	18.0	.54	24.0	1.50
14	21.0	.63	28.0	1.73

NOTE: Standard lengths are 25 ft. **extended**; Cut lengths available on request.

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# HT4000 Series Rough Bore (Unlined) "Multi-Flex" Interlocked Metal Hose

HOSE TEC® **TOUGH**  
METAL HOSE™



HT4000's single-strip interlocking construction provides a flexible metal hose that offers flexibility, strength and economy.

## Construction:

- A single metal strip is formed to create a flexible interlocked metal hose that offers maximum flexibility and strength, as well as superior service life.
- Available in Galvanized steel and Series 300 Stainless steel construction, with strip thicknesses from .010" to .030".
- Choice of packing materials to suit most applications... see page 13.



**Unpacked**



**Packed**

## Features:

- High strength construction.
- Temperature and corrosion-resistant.
- Flexible... does not restrict movement when installed with other hoses.
- Can be formed and holds its shape, yet is easily moved.
- Available in **GEM♦FLEX™** "Torque-Resistant" hose... see page 4.
- 4" and 5" available in **RIDGELINE™** (see page 6).

## Applications:

- Abrasive material handling.
- Railcar unloading.
- Non-rigid connections for conveying gases and semi-solid materials.
- Dust and fume collection.
- Ventilation of heaters and general hot air ducting applications.
- Garage fume exhaust, engine exhaust and flexible tail pipe applications.
- Hot air blower and suction hose applications.
- Protective armor and shielding.
- Fly ash removal.
- Blow out protection for hydraulic and other high pressure hoses.
- Liner for corrugated hose and braid assemblies.
- Steam hose protection.

## Maximum Service Temperature:

- Galvanized steel: Up to 750°F
- Series 300 Stainless steel: Up to 1500°F

For questions regarding other Stainless steel material options please call Hose Technology at 1-800-878-5501.

Note: Service temperature may vary due to choice of packing material. See page 13.

## Catalog Series Numbers:

### HT4000 Series Galvanized Unlined Interlocked Metal Hose (Unpacked):

HTG4100 – Light Weight (.010" – .012" strip thickness)  
HTG4150 – Light-Medium Weight (.013" – .016" strip thickness)  
HTG4200 – Medium Weight (.017" – .020" strip thickness)  
HTG4250 – Heavy Weight (.023" – .026" strip thickness)  
HTG4300 – Extra-Heavy Weight (.027" – .031" strip thickness)

### HT4000 Series Stainless steel Unlined Interlocked Metal Hose (Unpacked):

HTS4100 – Light Weight (.010" – .012" strip thickness)  
HTS4150 – Light-Medium Weight (.013" – .016" strip thickness)  
HTS4200 – Medium Weight (.017" – .020" strip thickness)  
HTS4250 – Heavy Weight (.023" – .026" strip thickness)  
HTS4300 – Extra-Heavy Weight (.027" – .031" strip thickness)

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**SPECIFICATIONS** (Weights and bend diameters are based on extended hose and are approximate)

Hose Size I. D. (Inches)	Series & Strip Thickness									
	HTG4100 HTS4100 .010" – .012"		HTG4150 HTS4150 .013" – .016"		HTG4200 HTS4200 .017" – .020"		HTG4250 HTS4250 .023" – .026"		HTG4300 HTS4300 .027" – .031"	
	Min. Inside Bend Dia. (In.)	Wt. per foot (lbs.)	Min. Inside Bend Dia. (In.)	Wt. per foot (lbs.)	Min. Inside Bend Dia. (In.)	Wt. per foot (lbs.)	Min. Inside Bend Dia. (In.)	Wt. per foot (lbs.)	Min. Inside Bend Dia. (In.)	Wt. per foot (lbs.)
5/16	2.5	0.10	—	—	—	—	—	—	—	—
3/8	3.0	0.12	—	—	—	—	—	—	—	—
1/2	3.5	0.15	—	—	—	—	—	—	—	—
5/8	4.0	0.20	—	—	—	—	—	—	—	—
3/4	5.25	0.25	—	—	—	—	—	—	—	—
7/8	6.0	0.29	—	—	—	—	—	—	—	—
1	7.0	0.33	—	—	—	—	—	—	—	—
1 1/8	7.5	0.37	—	—	—	—	—	—	—	—
1 1/4	8.0	0.41	—	—	—	—	—	—	—	—
1 3/8	8.5	0.45	10.0	0.60	—	—	—	—	—	—
1 1/2	9.5	0.50	11.0	0.70	12.0	1.00	—	—	—	—
1 5/8	10.0	0.54	11.5	0.75	13.0	1.05	—	—	—	—
1 3/4	10.5	0.58	12.0	0.80	14.0	1.10	—	—	—	—
1 7/8	11.0	0.62	12.5	0.85	15.0	1.20	—	—	—	—
2	12.0	0.70	13.0	0.90	16.0	1.30	18.0	1.60	19.0	2.10
2 1/4	13.5	0.75	14.5	1.10	17.0	1.45	19.0	1.80	20.0	2.20
2 1/2	15.0	0.80	16.0	1.20	18.0	1.60	20.0	2.00	21.0	2.30
2 3/4	17.5	0.90	16.5	1.30	20.0	1.80	22.0	2.15	23.0	2.50
3	20.0	1.00	21.0	1.40	22.0	2.00	24.0	2.30	26.0	2.70
3 1/4	21.0	1.10	22.5	1.50	24.0	2.10	26.0	2.50	27.0	2.95
3 1/2	22.0	1.20	24.0	1.60	25.0	2.30	27.0	2.70	28.0	3.20
4	25.0	1.40	27.0	1.80	29.0	2.60	30.0	3.10	31.0	3.60
4 1/2	28.0	1.50	30.0	2.00	32.0	2.90	34.0	3.50	36.0	4.10
5	30.0	1.70	32.0	2.30	34.0	3.00	36.0	3.90	38.0	4.50
5 1/4	32.0	1.80	34.5	2.40	36.0	3.15	39.0	4.10	41.0	4.75
5 1/2	35.0	1.90	37.0	2.50	39.0	3.30	42.0	4.30	44.0	5.00
6	40.0	2.00	42.0	2.70	44.0	3.60	47.0	4.70	50.0	5.40
6 1/4	41.0	2.10	43.0	2.80	46.0	3.75	49.0	4.90	52.0	5.60
6 1/2	42.0	2.20	44.0	2.95	47.0	3.90	50.0	5.10	53.0	5.80
7	44.0	2.40	46.0	3.20	50.0	4.20	53.0	5.50	56.0	6.30
7 1/4	46.0	2.50	47.5	3.30	52.0	4.30	55.0	5.70	58.0	6.50
7 1/2	48.0	2.60	49.0	3.40	53.0	4.40	56.0	5.85	59.0	6.75
8	50.0	2.70	52.0	3.60	56.0	4.70	59.0	6.20	62.0	7.20
9	—	—	56.5	4.05	61.0	5.30	64.0	6.60	68.0	7.60
9 1/2	—	—	59.0	4.25	63.0	5.60	67.0	6.80	71.0	7.80
10	—	—	61.0	4.50	65.0	5.90	69.0	7.00	74.0	9.00
11	—	—	66.0	5.00	71.0	6.50	75.0	7.40	79.0	9.90
11 1/4	—	—	67.5	5.10	72.0	6.60	76.0	7.50	81.0	10.20
11 1/2	—	—	69.0	5.20	74.0	6.75	77.0	7.60	83.0	10.40
12	—	—	72.0	5.40	76.0	7.00	80.0	7.80	84.0	10.80
14	—	—	100.0	6.30	106.0	8.10	110.0	9.40	115.0	12.60
16	—	—	—	—	121.0	9.20	125.0	11.00	150.0	14.40

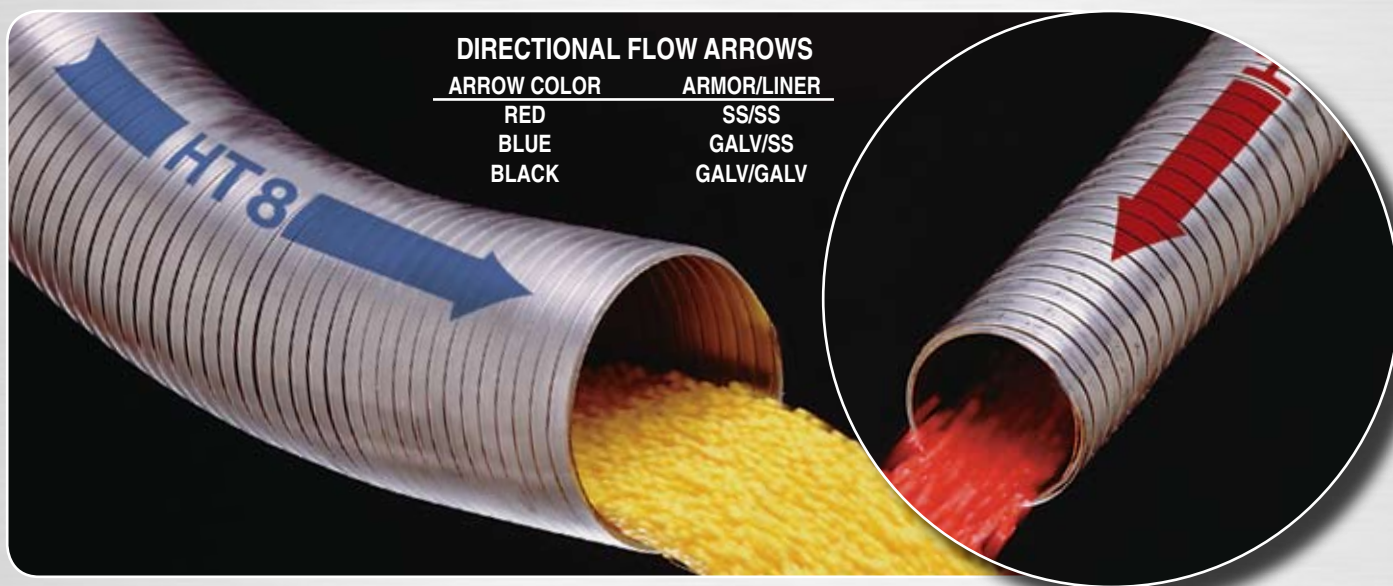
NOTE: Standard lengths are 25 ft. and 50 ft. coils **extended**; all other lengths available on request.

Please refer to the back page for the location of your nearest warehouse for availability of products/sizes shown.

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS OR DISCONTINUE PRODUCTS WITHOUT PRIOR NOTICE.

# HT5000 Series Smooth Bore (Lined) "Smooth Flow" Interlocked Metal Hose

**HOSE TEC® TOUGH**  
METAL HOSE™



DIRECTIONAL FLOW ARROWS	
ARROW COLOR	ARMOR/LINER
RED	SS/SS
BLUE	GALV/SS
BLACK	GALV/GALV

HT5000's Interlocked Metal Hose combines the Hose Tec® single-strip interlocking construction with a smooth liner, providing a flexible metal hose that resists material build-up and internal abrasion. Materials flow smoothly in direction shown by arrows.

## Construction:

- An armor strip is combined with a strip of liner material and formed to create a lined flexible interlocked metal hose that offers superior strength and abrasion-resistance.
- Available with Galvanized steel or Series 300 Stainless steel armor construction, with either Galvanized or Series 300 Stainless steel liner, in a variety of weights.
- Also available in **GEM♦FLEX™** "Torque-Resistant" Hose... see page 4.

## Applications:

- Railcar offloading.
- Pneumatic dry bulk unloading of grains, pellets, powders and dry chemicals.
- Ideal hose for general bulk unloading applications.
- Transfer of hot materials (not for hot tar or asphalt).
- Bulk unloading of highly abrasive materials.
- Plastic pellet transfer.

## Features:

- Flow indication arrows are provided on each length.
- Galvanized or Stainless steel liner provides additional strength and greater resistance to abrasion.
- Smooth liner reduces material degradation and improves unloading time.
- Provides maximum flow rates for pneumatic conveying applications.
- Available in standard 25' lengths extended, cut to length, or with attached end fittings.

## Maximum Service Temperature:

- Galvanized steel: Up to 750°F
- Series 300 Stainless steel: Up to 1500°F

Note: Service temperature may vary due to choice of packing material. See page 13.

For questions regarding other Stainless steel material options please call Hose Technology at 1-800-878-5501.

## Catalog Series Numbers:

### HT5000 Series Galvanized Lined Interlocked Hose with Galvanized or SS Liner (Unpacked):

- HTGG5150 – Lt. Wt. with Galvanized Liner (.015" Armor/.015" Liner)
- HTGS5150 – Lt. Wt. with Stainless steel Liner (.015" Armor/.015" Liner)
- HTGG5180 – Med. Wt. with Galvanized Liner (.018" Armor/.015" Liner)
- HTGS5180 – Med. Wt. with Stainless steel Liner (.018" Armor/.015" Liner)

### HT5000 Series Stainless steel Lined Interlocked Hose with Stainless steel Liner (Unpacked):

- HTSS5150 – Lt. Wt. with Stainless steel Liner (.015" Armor/.015" Liner)
- HTSS5180 – Med. Wt. with Stainless steel Liner (.018" Armor/.015" Liner)
- HTSS5250 – Xtra-Hvy. with Stainless steel Liner (.025" Armor/.018" Liner)

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## SPECIFICATIONS

(Weights & bend diameters are based on extended hose and are approximate)

Hose Size I. D. (Inches)	Series & Strip Thickness					
	HTGG5150 HTGS5150 HTSS5150 .015" Armor/.015" Liner		HTGG5180 HTGS5180 HTSS5180 .018" Armor/.015" Liner		HTSS5250 .025" Armor/.018" Liner	
	Minimum Inside Bend Dia. (Inches)	Weight per foot (lbs.)	Minimum Inside Bend Dia. (Inches)	Weight per foot (lbs.)	Minimum Inside Bend Dia. (Inches)	Weight per foot (lbs.)
1½	11.25	1.10	12.0	1.50	—	—
1¾	13.0	1.35	14.0	1.70	—	—
2	15.0	1.60	16.0	1.90	—	—
2¼	17.0	1.90	19.0	2.10	—	—
2½	19.0	2.10	21.0	2.30	—	—
2¾	21.0	2.30	25.0	2.50	—	—
3	23.0	2.50	28.0	2.80	35.0	3.75
3½	27.0	2.90	30.0	3.20	37.0	4.35
4	30.0	3.40	32.0	3.60	39.0	5.10
4½	34.0	3.75	37.0	4.00	44.0	5.40
5	37.0	4.10	41.0	4.70	48.0	5.60
6	44.0	4.90	49.0	5.60	60.0	6.25
7	53.0	5.80	58.0	6.60	68.0	7.80
8	61.0	6.60	63.0	7.70	74.0	8.80
10	—	—	79.0	9.70	86.0	11.00
12	—	—	94.0	11.70	104.0	13.00
14	—	—	110.0	13.50	120.0	15.50
16	—	—	126.0	15.00	138.0	18.00

**NOTE:** Standard coil length is 25 ft. extended; other lengths available on request.



Smooth Bore (Lined) "Smooth Flow" Interlocked Metal Hose also available in HTSS5210 series (.018" Armor/.018" Liner).

Please contact your nearest Kuriyama warehouse for more information.

## Packing Selections — for lined & unlined interlocked flexible metal hose

**Note:** Metal Hose service temperature may vary due to choice of packing material used.

**Rough Bore (Unlined)  
Interlocked Hose**



**Packed**



**Unpacked**

**Smooth Bore (Lined)  
Interlocked Hose**



**Packed**



**Unpacked**

Packing Material	Temperature	Pressure	Vacuum
Cotton Cord	To 300° F.	To 15 PSI	To 15" Mercury
Apyrous (Hi Temp)	To 450° F.	To 15 PSI	To 15" Mercury
Gas Tight (Elastomeric)	To 180° F.	To 20 PSI	To 20" Mercury
Silicone	To 500° F.	To 20 PSI	To 20" Mercury
S. S. Wire	To 1500° F.	To 15 PSI	To 15" Mercury

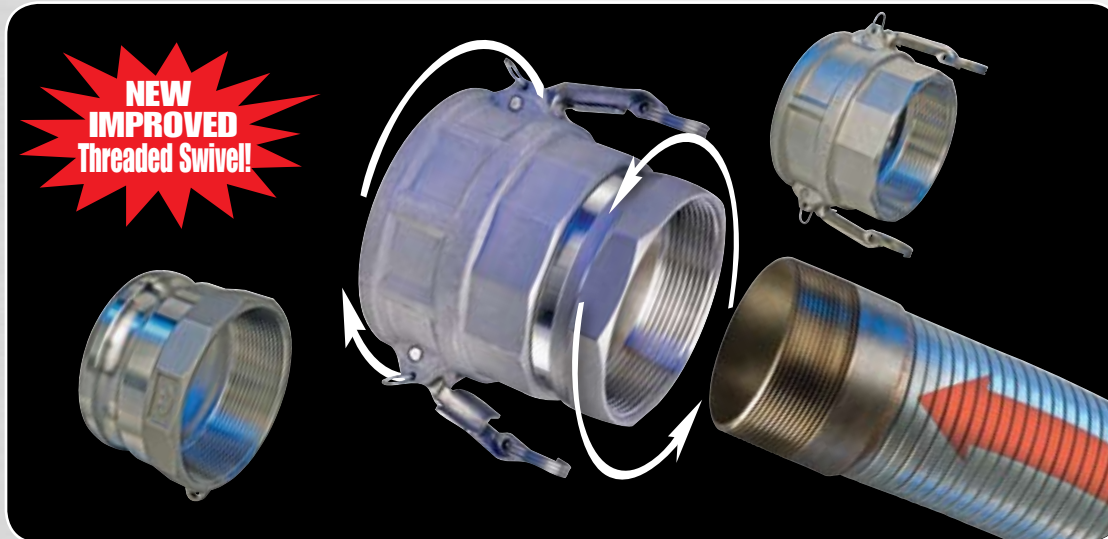


**NOTE:** Packings are NOT recommended for most hose applications. Check with Hose Technology at: 1-800-878-5501.

Please refer to the back page for the location of your nearest warehouse for availability of products/sizes shown.

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**Ready-to-use assemblies with your choice of Re-Usable end couplings.  
Saves Time and Money!!**



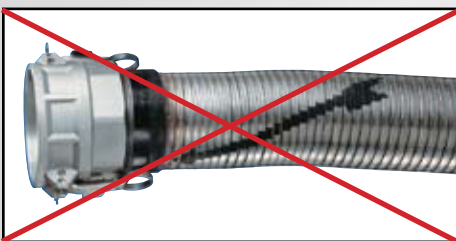
Our **Kuriyama - Couplings™** brand Threaded Swivel Couplers and Adapters new hex design provides easier assembly and improved product flow – in stock NOW! (see pg 16.)

**HTSS5180 SERIES (SHOWN) Red Arrow Indicates Directional Flow**

**Series 300 Stainless steel armor/Series 300 Stainless steel Liner with attached SS304 Schedule 40 TOE ends.**

- Ready-to-use hose assemblies. Save time and money! No wait – ready to ship. No welding required!
- Metal hose lengths come with SS304 Schedule 40 TOE (thread-one-end) with NPT threads, pre-welded on each end of hose.
- Available in both Rough Bore (Unlined) and Smooth Bore (Lined) Hoses. See p.15 for available types and lengths.
- Also available in GEM♦FLEX™ “Torque-Resistant” Series. Call for details.
- Swivel Couplers and Adapters make hose handling easier and help to extend hose life by reducing torque pressure.
- NEW and Improved swivel couplings! New Hex Nut design allows for easier assembly and improved product flow.
- Re-usable thread-on couplings. The pre-welded TOE's readily accept our in-stock Aluminum and Stainless Steel Kuriyama-Couplings™ brand Quick-Acting Couplings and Adapters with NPT threads. (see p.16).

**Ideal for pneumatic trailers, railcar unloading and in-plant transfer applications.**



The arrow tells it all! A curved or distorted arrow like this one shows that the hose has been twisted (torqued) and possibly damaged. This could have been prevented with the use of a swivel coupling!



## **Metal-Hose-To-Go™ Program IN STOCK AT KURIYAMA WAREHOUSES**

**Please refer to the back page for the location of your nearest warehouse for availability of products/sizes shown.**

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## Available Hoses – types, sizes, lengths

NOTE: Don't see what you need? Other hoses, sizes and lengths available to stock for your convenience. Contact your local Kuriyama office.

### Smooth Bore (Lined) "Smooth Flow" Hose

Part Number	I.D.	Series	Material Arm/Liner	OAL	Ends	Weight per piece
SS154X228STOE	4"	5150	SS/SS	19'	STOE	65
SS184X072STOE	4"	5180	SS/SS	6'	STOE	22
SS184X120STOE	4"	5180	SS/SS	10'	STOE	38
SS184X144STOE	4"	5180	SS/SS	12'	STOE	45
SS184X180STOE	4"	5180	SS/SS	15'	STOE	60
SS184X210STOE	4"	5180	SS/SS	17.5'	STOE	67
SS184X228STOE	4"	5180	SS/SS	19'	STOE	75
SS184X300STOE	4"	5180	SS/SS	25'	STOE	96
SS186X120STOE	6"	5180	SS/SS	10'	STOE	60
SS186X228STOE	6"	5180	SS/SS	19'	STOE	115
SS186X300STOE	6"	5180	SS/SS	25'	STOE	144

### Rough Bore (Unlined) "Multi-Flex" Hose

Part Number	I.D.	Series	Material	OAL	Ends	Weight per piece
S203X120STOE	3"	4200	SS	10'	STOE	22
S203X144STOE	3"	4200	SS	12'	STOE	27
S204X120STOE	4"	4200	SS	10'	STOE	31
S204X144STOE	4"	4200	SS	12'	STOE	41
S204X228STOE	4"	4200	SS	19'	STOE	61
S204X234STOE	4"	4200	SS	19.5'	STOE	62
S205X120STOE	5"	4200	SS	10'	STOE	39
S206X120STOE	6"	4200	SS	10'	STOE	47

NOTE: OAL (overall length) refers to assembly length when hose is **FULLY EXTENDED**.



Please refer to the back page for the location of your nearest warehouse for availability of products/sizes shown.

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**NEW HEX DESIGN PROVIDES EASIER ASSEMBLY AND IMPROVED PRODUCT FLOW.**

## Kuriyama-Couplings™ and Accessories

### THREADED SWIVEL ALUMINUM FEMALE COUPLER SS304 THREADED NPT INSERT

Part Number	Size	Weight Each	Standard Package
KAS-C401	4"	6.28 lbs	1
KAS-C501	5"	6.80 lbs	1
KAS-C601	6"	7.87 lbs	1



### THREADED SWIVEL ALUMINUM MALE ADAPTOR WITH SS304 THREADED NPT INSERT

Part Number	Size	Weight Each	Standard Package
KAS-E401	4"	4.23 lbs	1
KAS-E501	5"	5.62 lbs	1
KAS-E601	6"	6.21 lbs	1



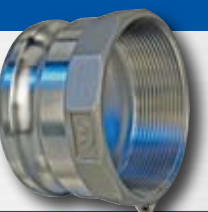
### THREADED SWIVEL SS304 MALE ADAPTOR WITH SS304 THREADED NPT INSERT

Part Number	Size	Weight Each	Standard Package
KSS-E401	4"	6.22 lbs	1
KSS-E501	5"	9.75 lbs	1
KSS-E601	6"	10.42 lbs	1



### PART 'A' QUICK-ACTING MALE ADAPTOR x FEMALE NPT 4" & 6" I.D.

Part Number	Size	Weight Each	Standard Package†
AL-A400	4"	1.34 lbs	20
SS304-A400	4"	3.74 lbs	6
SS-A400	4"	3.74 lbs	6
AL-A600	6"	2.00 lbs	15
SS304-A600	6"	8.55 lbs	2
SS-A600	6"	8.55 lbs	2



†Note: Couplings can be purchased individually also.

### PART 'D' QUICK-ACTING FEMALE COUPLER x FEMALE NPT 4" & 6" I.D.

Part Number	Size	Weight Each	Standard Package†
AL-D400	4"	2.82 lbs	10
SS304-D400	4"	6.50 lbs	6
SS-D400	4"	6.50 lbs	6
AL-D600	6"	5.11 lbs	10
SS304-D600	6"	11.51 lbs	2
SS-D600	6"	11.51 lbs	2



†Note: Couplings can be purchased individually also.

**Note:** Kuriyama Quick-Acting parts "A" and "D" are also available in 3" and 5" sizes. Refer to current Kuriyama-Couplings™ and Accessories Catalog for more information.

### WHITE NEOPRENE (FDA) GASKETS FOR QUICK ACTING COUPLINGS

Part Number	Size	Weight Each	Standard Package
WN400	4"	0.066 lbs	10
WN500	5"	0.094 lbs	10
WN600	6"	0.116 lbs	10



**Please refer to the back page for the location of your nearest warehouse for availability of products/sizes shown.**

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**Abrasion** — Scuffing, rubbing or wear of a hose or braid surface.

**Ambient Conditions** — The surrounding environment to which a hose assembly is subjected. This includes temperature, corrosion and abuse conditions.

**Annular** — With reference to the convolution form, meaning independent corrugations straight and parallel.

**Armor** — Flexible interlocked tubing placed over the entire length or in short lengths at the ends of a metal hose to protect it from physical damage and to limit bending.

**ASME** — American Society of Mechanical Engineers.

**Bend Radius** — The centerline radius of a hose in a bent condition.

**Braid** — A flexible metal sheath surrounding metal hose that prevents the hose from elongating under pressure. Braid is composed of a number of wires wrapped helically around the hose while at the same time going over and under each other in a basket weave fashion.

**Compressed** — Interlocked hose in its completely closed state.

**Extended** — Interlocked hose in its completely open state.

**Fatigue** — The process of failure in a metal hose associated with motion or pressure.

**Floppy Interlock** — Constructed for maximum flexibility.

**Helical** — With reference to the convolution form, meaning one single convolution generated along the axis of the tube in a manner similar to a screw thread.

**Interlocked Hose** — Formed from profiled strip and wound into flexible metal tubing with no subsequent welding, brazing, or soldering. May be made pressure tight by winding in strands of packing.

**Intermittent Bend radius** — The designation for a radius used for non-continuous operation. Usually in an elastic radius.

**Loose Wound Interlock** — Loosely wound interlocked hose. Will not hold its shape.

**Minimum Bend Radius** — The smallest radius to which a hose is permitted to be bent, generally applicable only to static conditions. Sometimes referred to as static bend radius.

**Natural Lie (Relaxed)** — Interlocked hose halfway between the compressed and extended state.

**Offset** — A condition wherein the ends of a hose are displaced laterally with respect to each other with the ends being in parallel planes. Sometimes referred to as lateral offset, shear, or parallel offset.

**Operating Conditions** — The designation of pressure, temperature, motion media and environment. Used interchangeably with “application.”

**Packing** — Material inserted into the windings of interlocked hose to make it less susceptible to leaking.

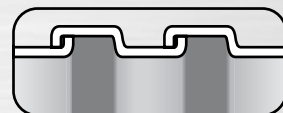
**Pressure** — The internal hydraulic or pneumatic force applied to a metal hose.

**Rough Bore** — Interlocking metal hose that allows movement of media in either direction. (Unlined)

**Smooth Bore** — Interlocking metal hose that uses an additional strip to create a smooth transition of media in one direction only. (Lined)

**Square Cutting** — Cutting the end of a metal hose so that the end will be completely flush with a fitting for attaching.

**Squarelocked Hose** — Flexible metal hose that is not mechanically locked together.



**Standard Interlock** — Flexible interlocked hose that offers flexibility, strength and service life.



**Torque** — A force that produces rotation on an interlocked hose.

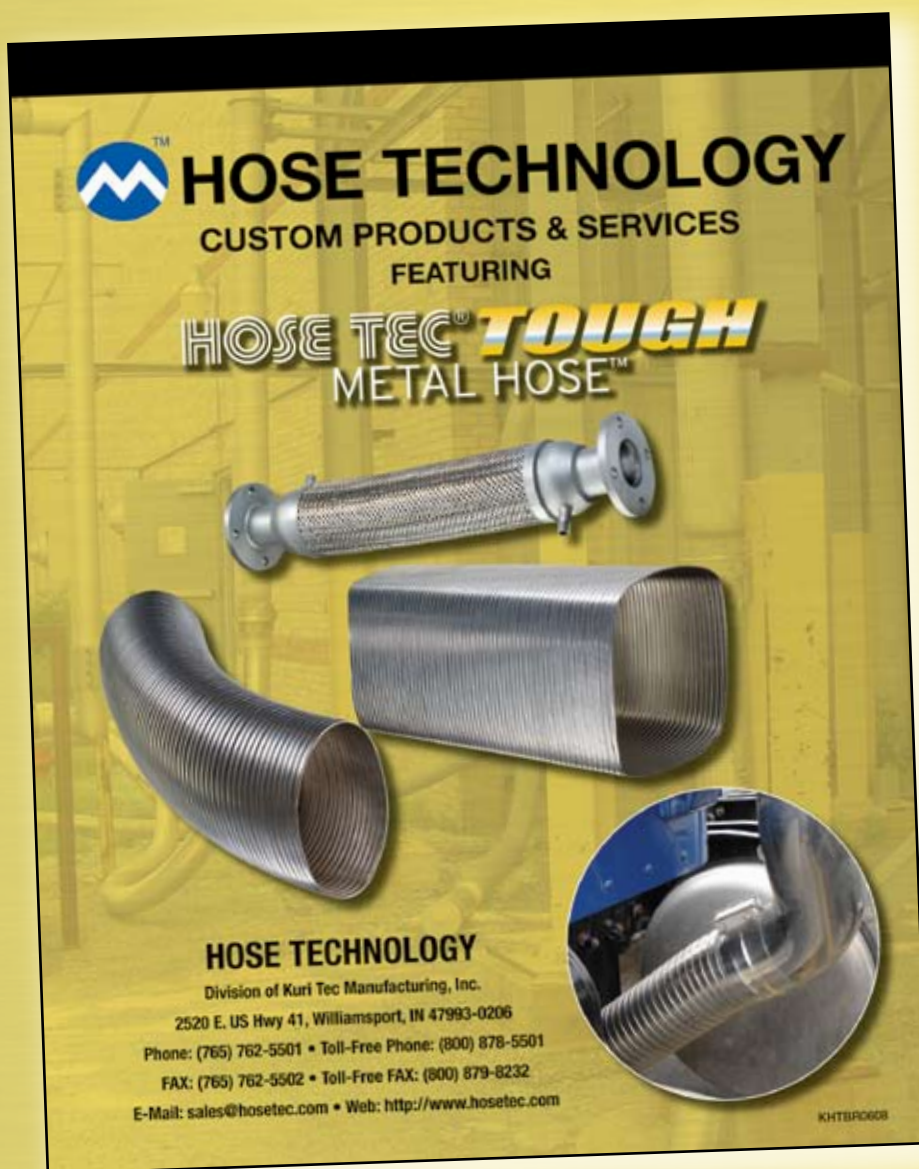
**Vacuum** — Negative pressure or suction.

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# **CUSTOM PRODUCTS AND SERVICES THROUGH HOSE TECH-**

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- Jacketed Assemblies
- Corrugated/Braid Assemblies
- Interlock Assemblies
- Chimney Liners
- Repair Services
- Rectangle, Square and Oval Hoses



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on the Web!



# Cautionary/Warranty Statements

## Cautionary Statement

All Products sold and distributed by Kuriyama of America, Inc. are in the nature of commodities and they are sold by published specifications and not for particular purposes, uses or applications. Purchaser shall first determine their suitability for the intended purposes, uses or applications and shall either conduct its own engineering studies or tests, or retain qualified engineers, consultants or testing laboratories and consult with them before determining the proper use, suitability or propriety of the merchandise or Products for the intended purposes, uses or applications.

Kuriyama of America, Inc. ("Seller") does not recommend the Products for any particular purpose, use or application, and the Purchaser or user thereof shall assume full responsibility for the suitability, propriety, use and application of the Products. Purchaser shall follow all instructions contained in Seller's catalogs, brochures, technical bulletins and other documents regarding the Products. The Products, including but not limited to, hose, tubing or couplings, may fail due to the use or conveyance of substances at elevated or lowered temperatures or at excessive pressure, the conveyance of abrasive, injurious, flammable, explosive or damaging substances.

Hose or tubing used in bent configurations will be subjected to increased abrasion. Hose clamps or couplings may loosen after initial installation and all sections of hose and tubing including connections, couplings, clamps, conductivity and bonding should be inspected frequently, regularly and consistently, and should be replaced, adjusted or re-tightened for the avoidance of leakage, for the prevention of injuries or damages, and for general safety purposes. Except as indicated in its Limited Warranty, Seller shall not be liable or responsible for direct or indirect injuries or damages caused by or attributed to the failure or malfunction of any Products sold or distributed by it.

Purchasers or users of the Products should frequently and consistently undertake inspections and protective measures with respect to the use and application of Products, which should include the examination of tube and cover, conditions of the hose or tubing, and the identification, repair or replacement of sections showing cracking, blistering, separations, internal and external abrasions, leaking or slipped couplings or connections and make proper proof tests.

## Limited Warranty

The Products sold or distributed by Seller are warranted to its customers to be free from defects in material and workmanship at the time of shipment by us, subject to the following provisions.

ALL WARRANTY CLAIMS SHALL BE MADE WITHIN SIX (6) MONTHS AFTER SELLER SHIPPED THE PRODUCTS. SELLER'S LIABILITY HEREUNDER IS LIMITED AT SELLER'S EXCLUSIVE DISCRETION, TO 1) THE PURCHASE PRICE OF ANY PRODUCTS PROVING DEFECTIVE; 2) REPAIR OF ANY DEFECTIVE PRODUCT OR PART THEREOF; OR 3) REPLACEMENT OF ANY DEFECTIVE PRODUCT OR PART UPON ITS AUTHORIZED RETURN TO SELLER.

THIS WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE CREATED UNDER APPLICABLE LAW INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL SELLER OR

THE MANUFACTURER OF THE PRODUCT BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING LOSS OF PROFITS, WHETHER OR NOT CAUSED BY OR RESULTING FROM THE NEGLIGENCE OF SELLER AND/OR THE MANUFACTURER OF THE PRODUCT, UNLESS SPECIFICALLY PROVIDED HEREIN. IN ADDITION, THIS WARRANTY SHALL NOT APPLY TO ANY PRODUCTS OR PORTIONS THEREOF WHICH HAVE BEEN SUBJECTED TO ABUSE, MISUSE, IMPROPER INSTALLATION, MAINTENANCE, OR OPERATION, ELECTRICAL FAILURE OR ABNORMAL CONDITIONS, AND TO PRODUCTS WHICH HAVE BEEN TAMPERED WITH, ALTERED, MODIFIED, REPAIRED, REWORKED BY ANYONE NOT APPROVED BY SELLER, OR USED IN ANY MANNER INCONSISTENT WITH THE PROVISIONS OF THE "CAUTIONARY STATEMENT" ABOVE OR ANY INSTRUCTIONS OR SPECIFICATIONS PROVIDED WITH OR FOR THE PRODUCT.

09/2005

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# Sales Offices

## SALES OFFICES — CONTACT THE LOCATION BELOW WHICH SERVES YOUR AREA

### **SOUTHWEST WAREHOUSE KURIYAMA OF AMERICA, INC. HOUSTON**

8919 MARKET ST.  
HOUSTON, TX 77029  
Phone: (713) 674-8212  
Toll Free Phone: (800) 501-6808  
FAX: (713) 674-5214  
Toll-Free FAX: (800) 800-5214

### **WESTERN WAREHOUSE KURIYAMA OF AMERICA, INC. SANTA FE SPRINGS**

10749 SHOEMAKER AVENUE  
SANTA FE SPRINGS, CA 90670-4039  
Phone: (562) 941-4507  
FAX: (562) 941-8940  
Toll-Free FAX: (800) 326-8940

### **SOUTHEAST WAREHOUSE FORTNEY SALES CO., INC.**

1580 BIG SHANTY DR NW  
KENNESAW, GA 30144-7040  
Phone: (770) 427-6528  
FAX: (770) 423-9249  
Toll-Free FAX: (800) 423-9249

### **EASTERN WAREHOUSE EASTERN RUBBER & PLASTICS CO., INC.**

RT. 537 – PLUMSTED INDUSTRIAL PARK  
NEW EGYPT, NJ 08533-0248  
Phone: (609) 758-0100  
FAX: (609) 758-0102  
Toll-Free FAX: (800) 445-7138

### **MEXICO WAREHOUSE**

**Kuriyama De Mexico, S. de R.L. de C.V.**  
Carretera Miguel Alemán Km. 14.8  
Parque Industrial Hasna  
Apodaca (Monterrey), N.L., 66600, Mexico  
Tel: (81) 1086-1870 o 71  
Toll-Free (within Mexico): 01-800-822-52-00  
FAX: (81) 1086-1869  
Internet: [www.kuriyama.com](http://www.kuriyama.com)  
Correo Electronico: [ventas@kuriyama.com](mailto:ventas@kuriyama.com)

## PLANT LOCATION

### **HOSE TECHNOLOGY**

*Division of Kuri Tec Manufacturing, Inc.*  
2520 E. US Hwy 41  
Williamsport, IN 47993-0206  
Phone: (765) 762-5501  
Toll-Free Phone: (800) 878-5501  
FAX: (765) 762-5502  
Toll-Free FAX: (800) 879-8232  
E-Mail: [sales@hosetec.com](mailto:sales@hosetec.com)  
Web: <http://www.hosetec.com>

## About Hose Technology...



Hose Technology is dedicated to manufacturing the highest quality flexible metal hose, delivered quickly and competitively priced.

Our plant is centrally located in the Midwest to provide fast delivery, and has been designed solely for the efficient manufacture of flexible metal hose and ducting.

Hose Technology's standard Hose Tec® Brand products are being inventoried in all Kuriyama warehouses.

We pride ourselves on our ability to meet our customer's individual needs. Whether you need a special length, special diameter, special materials of construction, special fittings, or just special handling, don't hesitate to ask!

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