



Kuriyama Layflat Products

Hoses, Couplings & Assemblies



Kuriyama of America, Inc.

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EDITION 0213

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Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Heavy Duty PVC Water Discharge Hose

APPLICATIONS:

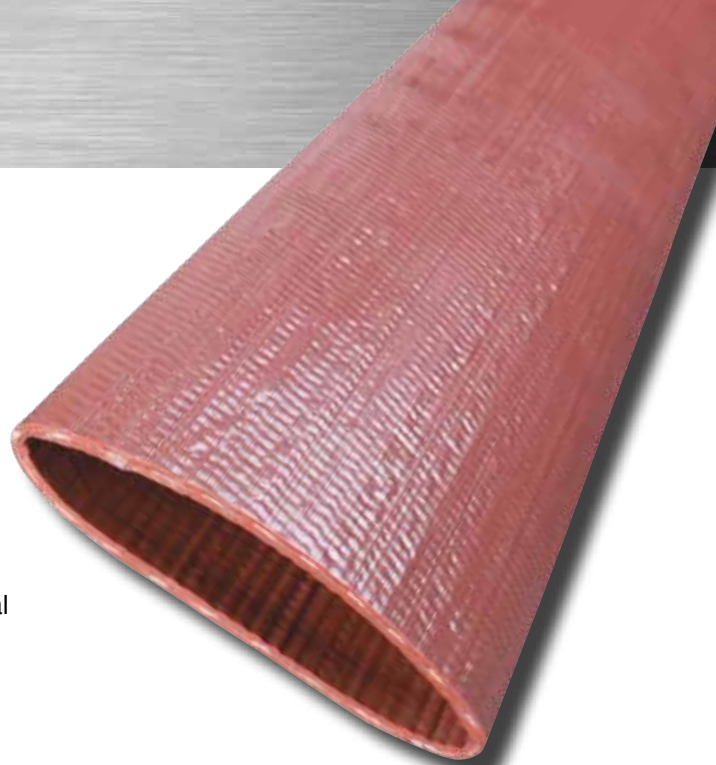
- Agricultural • Quarry • Mining • Irrigation • Construction
- Portable Hydrant • Relay Supply Line • Industrial

CONSTRUCTION:

- Premium quality PVC tube and cover, reinforced with two spiral plies and longitudinal synthetic cords.

FEATURES & BENEFITS:

- MSHA-accepted - Use as a water hose in underground mining applications
- Premium quality tube and cover - Designed for heavy duty applications. This hose has a high working pressure and is ozone resistant.
- Two spiral plies and longitudinal synthetic cords - Provides higher working pressure and resists kinking and twisting.
- Storage - All coils have PVC cores for easier dispensing. Hoses coil flat for easy storage.



Please see page 15 for friction loss/elongation information.

Service Temperature: -5° F (-20° C) to 170° F (+76° C)

Nominal Specifications							
Series No.	Size (in.) (mm)	Hose ID (in.) (mm)	Approximate Wall Thickness (in.)	Working Pressure (PSI)	Coil Length (ft.)	Approx. Weight (lbs./coil)	
IS150	1 1/2 38.1	1.61 40.9	0.0866	150	300	69.0	
IS200	2 50.8	2.09 53.1	0.0906	150	300	96.0	
IS250	2 1/2 63.5	2.58 65.5	0.0945	150	300	123.0	
IS300	3 76.2	3.09 78.5	0.0984	150	300	156.0	
IS400	4 101.6	4.10 104.1	0.1102	125	300	228.0	
IS600	6 153.4	6.16 156.5	0.1181	115	300	363.0	
IS800	8 204.7	8.15 207.0	0.1220	70	300/100	486/162	
NEW Size IS1000	10 254.0	10.12 257.0	0.1300	65	100	195.0	

Note: Not intended for use as a fire hose.

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Vinylflow®

Premium PVC Drip Irrigation & Water Discharge Hose

APPLICATIONS:

- Drip irrigation • Construction • Industrial • Agricultural

CONSTRUCTION:

- Features a balanced polyester yarn spiral wrap, longitudinal strength member and homogeneous PVC tube and cover to prevent separation.

FEATURES & BENEFITS:

- Smooth tube - Provides low friction loss.
- Drip irrigation - Hose lays straight with minimal elongation under pressure. Hose may be punched easily without tearing.
- Ultraviolet inhibitors - Reduces aging and weather checking.
- Storage - All coils have PVC cores for easier dispensing. Hoses coil flat for easy storage.

Please see page 15 for friction loss/elongation information.

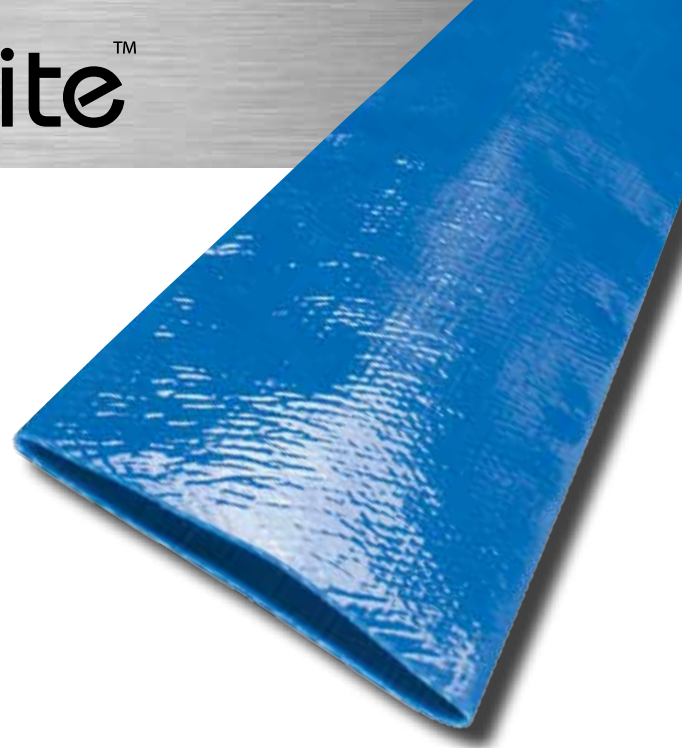
Service Temperature: -5° F (-20° C) to 170° F (+76° C)

Nominal Specifications

Series No.	Size (in.) (mm)		Hose ID (in.) (mm)		Approximate Wall Thickness (in.)	Working Pressure (PSI)	Coil Length (ft.)	Approx. Weight (lbs./coil)
VF150	1 1/2	38.1	1.614	41.0	0.0669	80	300	48.0
VF200	2	50.8	2.090	53.1	0.0669	80	300	69.0
VF250	2 1/2	63.5	2.598	66.0	0.0787	80	300	87.0
VF300	3	76.2	3.130	79.5	0.0787	70	300	117.0
VF400	4	101.6	4.134	105.0	0.0827	70	300	156.0
VF500	5	127.0	5.039	128.0	0.0866	40	300	204.0
VF600	6	153.4	6.181	157.0	0.0866	50	300	258.0
VF800	8	204.7	8.169	207.5	0.1063	45	300/100	390/130
VF1000	10	253.0	10.118	257.0	0.1181	35	100	181.0
VF1200	12	304.8	12.126	308.0	0.1181	30	100	195.0
VF1400	14	355.6	14.134	359.0	0.1181	30	100	262.0
VF1600	16	406.4	16.142	410.0	0.1181	30	100	310.0

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General Purpose PVC Water Discharge Hose



APPLICATIONS:

- Equipment rental • Construction • Agricultural
- General open end water discharge

CONSTRUCTION:

- Features a balanced polyester yarn spiral wrap, longitudinal strength member and homogeneous PVC tube and cover to prevent separation.

FEATURES & BENEFITS:

- Smooth tube - Provides low friction loss.
- EZ - An easy to handle lightweight hose for general purpose applications.
- Ultraviolet inhibitors - Reduces aging and weather checking.
- Storage - All coils have PVC cores for easier dispensing. Hoses coil flat for easy storage.

Please see page 15 for friction loss/elongation information.

Service Temperature: -5° F (-20° C) to 170° F (+76° C)

Nominal Specifications							
Series No.	Size (in.) (mm)	Hose ID (in.) (mm)	Approximate Wall Thickness (in.)	Working Pressure (PSI)	Coil Length (ft.)	Approx. Weight (lbs./coil)	
VFL075	3/4 19.1	.760 19.3	.054	100	300	23.0	
VFL100	1 25.4	1.024 26.0	.051	85	300	30.0	
VFL125	1 1/4 31.8	1.299 33.0	.051	85	300	35.0	
VFL150	1 1/2 38.1	1.614 41.0	.045	65	300	42.0	
VFL200	2 50.8	2.087 53.0	.048	65	300/50	49.0/8.0	
VFL300	3 76.2	3.071 78.0	.055	60	300/50	90.0/15.0	
VFL400	4 101.6	4.094 104.0	.056	60	300	131.0	
VFL600	6 152.4	6.102 155.0	.061	40	300	209.0	
VFL800	8 203.2	8.169 208.0	.073	40	300	312.0	

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PVC / Nitrile Rubber Discharge Hose

APPLICATIONS:

- Irrigation • Agriculture • Watering • Dewatering • Drainage
- Pump discharge • Flotation booms • Cable covering
- Industrial washdown • Limited oil and chemical applications

CONSTRUCTION:

- Black PVC/Nitrile rubber tube and cover; polyester reinforcement provides working pressures equal to or higher than most PVC or rubber discharge hoses.

FEATURES & BENEFITS:

- Unique woven construction - Resists kinking, stretching and twisting.
- Ribbed cover - Provides high resistance to oil, weathering and abrasion.
- Handling - Lighter, less bulky, stores in less space than most rubber discharge hoses.

Service Temperature: -20° F (-29° C) to 176° F (+80° C)

Nominal Specifications

Series No.	Size (in.) (mm)	Hose ID (in.) (mm)	Approximate Wall Thickness (in.)	Working Pressure (PSI)	Coil Length (ft.)	Approx. Weight (lbs./coil)
GF150	1 1/2 38.1	1.56 39.6	0.08	200	200	42.0
GF200	2 50.8	2.08 52.8	0.08	200	200	60.0
GF250	2 1/2 63.5	2.59 65.8	0.08	175	200	82.0
GF300	3 76.2	3.08 78.2	0.10	175	200	91.0
GF400	4 101.6	4.08 103.6	0.10	150	200/50	132/33
GF500	5 127.0	5.05 128.3	0.12	150	200	196.5
GF600	6 153.4	6.10 155.0	0.12	150	200/100/50	232/116/58
GF800	8 204.7	8.10 205.7	0.12	150	100/50	198/99
GF1000	10 254.0	10.00 254.0	0.14	115	100/50	252/126
GF1200	12 304.8	12.09 307.0	0.14	115	100/50	336/168

New 10" & 12" sizes

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Gatorflow™ - Terrain™

PVC / Nitrile Rubber Discharge Hose

APPLICATIONS:

- Liquid Manure, Sludge & Slurry Transfer
- Frack Solution & Fresh Water Transfer
- Irrigation • Agriculture • Watering • Dewatering
- Contaminated Liquids, Fertilizers, Oils, Hydrocarbons
- Mining • Limited Chemical Applications

CONSTRUCTION:

- Black PVC/Nitrile rubber tube and cover; polyester reinforcement provides working pressures equal to or higher than most PVC or rubber hoses.

FEATURES & BENEFITS:

- Unique woven construction - Resists kinking, stretching and twisting.
- Ribbed cover - Provides high resistance to oil, weathering and abrasion.
- Lengths – Manufactured in special longer lengths (660 Ft) to reduce leak points



**NEW
PRODUCT**

Service Temperature: 20° F (-29° C) to 176° F (+80° C)

Nominal Specifications

Series No.	Size (in.) (mm)	Hose ID (in.) (mm)	Approximate Wall Thickness (in.)	Working Pressure (PSI)	Coil Length (ft.)	Approx. Weight (lbs./coil)
GFTR600	6 152.4	6.10 155	0.18	200	660	1082
GFTR800	8 203.2	8.15 207	0.18	175	660	1551
GFTR1000	10 254.0	10.00 254	0.16	175	660	1775

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Gatorflow™ - Yellow



PVC / Nitrile Rubber Air & Discharge Hose

APPLICATIONS:

- Air compressors • High pressure liquid pumping
- Bulk powder discharge (excluding cement)
- Irrigation • Agriculture • Watering • Dewatering
- Drainage • Flotation booms • Cable covering
- Industrial wash down • Limited oil and chemical applications

CONSTRUCTION:

- Yellow PVC/Nitrile rubber tube and cover; polyester reinforcement provides working pressures equal to or higher than most PVC or rubber hoses.

FEATURES & BENEFITS:

- Unique woven construction - Resists kinking, stretching and twisting.
- Ribbed cover - Provides high resistance to oil, weathering and abrasion.
- Handling - Lighter, less bulky, stores better in less space than most rubber discharge hoses.

Service Temperature: -20° F (-29° C) to 176° F (+80° C)

Nominal Specifications

Series No.	Size (in.) (mm)	Hose ID (in.) (mm)	Approximate Wall Thickness (in.)	Working Pressure (PSI)	Coil Length (ft.)	Approx. Weight (lbs./coil)
GFY075	3/4 19.1	.82 21.0	0.13	400	200/50	20.0/5.0
GFY100	1 25.4	1.02 26.0	0.14	400	200/50	28.0/7.0
GFY150	1 1/2 38.1	1.56 39.6	0.14	300	200	60.0
GFY200	2 50.8	2.08 52.8	0.14	200	200	85.0
GFY300	3 76.2	3.08 78.2	0.14	200	200	123.0
GFY400	4 101.6	4.08 103.6	0.14	200	200	173.0
GFY600	6 152.4	6.10 154.9	0.18	200	100	164.0

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Mill Discharge Hoses

Single Jacket & Double Jacket “Contractor Grade” Hoses

APPLICATIONS:

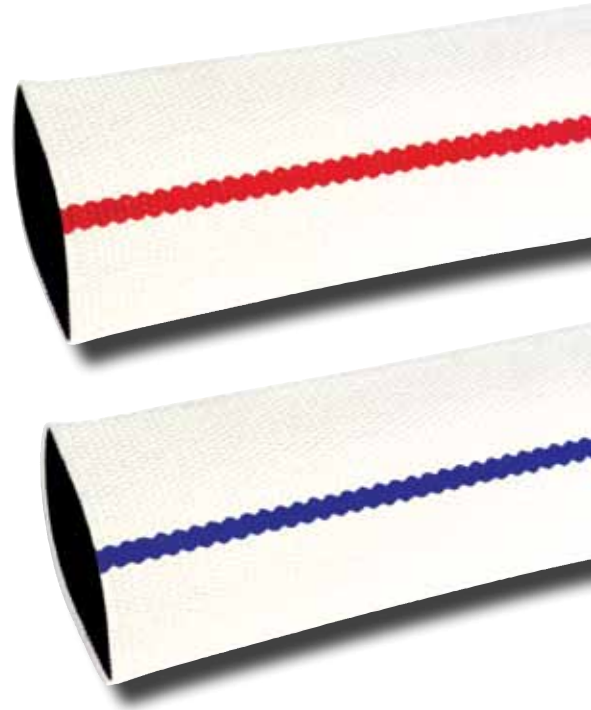
- Pump water discharge • Construction pumps.
- Wash down service on ships and in factories • Plant clean-up

CONSTRUCTION:

- Single or double jacket with 100% polyester yarn. Water and mildew-resistant cover, will not rot, even if the hose is stored wet.

FEATURES & BENEFITS:

- Easy identification - White cover with single stripe. Red stripe indicates single jacket; blue stripe indicates double jacket.
- Smooth natural rubber tube - Provides strength and flexibility.
- Double Jacket version - Provides greater abrasion resistance.
- Wide range of operating temperatures - Hose may be used in temperatures from -25° F (-31° C) to 185° F (+85° C) without stiffening.
- Packaging/ storage - Individually packed in cartons for ease of handling and shipping. Hose coils easily for storage.



Service Temperature: -25° F (-31° C) to 185° F (+85° C)

Nominal Specifications

Series No.	Size (in.) (mm)	Hose ID (in.) (mm)	Max. Working Pressure (PSI)	COUPLING BOWL Size (in.)	Approx. Weight per 100 ft. (lbs.)	Standard Length in Carton (ft.)
SJMD 150X100	1 1/2 38.1	1.61 41.0	150	1 ¹¹ / ₁₆ "	14	100*
SJMD 200X100	2 50.8	2.13 54.0	150	2 ¹ / ₄ "	20	100*
SJMD 250X100	2 1/2 63.5	2.64 67.0	150	2 ³ / ₄ "	26	100*
SJMD 300X100	3 76.2	3.15 80.0	150	3 ¹ / ₄ "	32	100*
SJMD 400X100	4 101.6	4.06 103.0	150	4 ⁹ / ₃₂ "	50	100*
DJMD 150X100	1 1/2 38.1	1.57 40.0	200	1 ¹³ / ₁₆ "	22	100*
DJMD 250X100	2 1/2 63.5	2.60 66.0	200	2 ¹³ / ₁₆ "	44	100*

Note: Not intended for use as a fire hose.

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Mill Discharge Assemblies

Double Jacket “Contractor Grade” Coupled with Male and Female Aluminum Rocker Lug Couplings

APPLICATIONS:

- Municipal washdown
- Hydrant-to-truck water supply line
- Heavy duty equipment or pump rental
- Ship deck washdown

CONSTRUCTION:

- Double jacket with 100% polyester yarn. Water and mildew-resistant cover, will not rot, even if the hose is stored wet.

FEATURES & BENEFITS:

- Smooth natural rubber tube - Provides strength and flexibility.
- Double Jacket - Provides greater abrasion resistance.
- Wide range of operating temperatures - Hose may be used in temperatures from -25° F (-31° C) to 185° F (+85° C) without stiffening.
- Easy identification - White cover with single blue stripe.
- Packaging/ storage - Individually packed in cartons for ease of handling and shipping. Hose coils easily for storage.



Service Temperature: -25° F (-31° C) to 185° F (+85° C)

Nominal Specifications

Series No.	Size (in.)	Size (mm)	Length (ft.)	Thread Type	Max. Working Pressure (PSI)	Approx. Weight (lbs.)
DJ150NSTX50	1 1/2	38.1	50'	NST	200	12
DJ150NPSHX50	1 1/2	38.1	50'	NPSH	200	12
DJ250NSTX50	2 1/2	63.5	50'	NST	200	23
DJ250NPSHX50	2 1/2	63.5	50'	NPSH	200	23

Note: Not intended for use as a fire hose.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

T253AA - 150 PSI EPDM Layflat Water Discharge Hose

APPLICATIONS:

- High pressure, 150 PSI lay flat type hose for general industrial construction and irrigation.

COVER:

- Black abrasion and ozone-resistant EPDM rubber.

REINFORCEMENT:

- High tensile textile cords.

TUBE:

- Black EPDM rubber.

TEMPERATURE RANGE:

- -22°F (-30°C) to 176°F (+80°C)

STANDARD LENGTH:

- 100 feet: 1½" through 10" 50 feet: 6", 8" 10" & 12"

WORKING PRESSURE:

- 150 PSI constant (10 Bar)

BRANDING:

- ALFAGOMMA – ITALY – T253 10 BAR (150 PSI) EPDM WATER DISCHARGE (in green letters)

* 6⁵/₈" referred to as Elephant Trunk Hose — Ideal for “Irrigation Boots”



FOR APPLICATIONS INVOLVING INDUSTRIAL ACID CHEMICALS AND ALCOHOLS, PLEASE REFER TO T5050G AND T5090E CHEMICAL HOSES

Nominal Specifications					• NOT FOR CHEMICAL APPLICATIONS	
Series No.	Nominal ID		Nominal OD		Approx. Wt. lbs./100 ft.	Max. Rec. WP (PSI)
	(in.)	(mm)	(in.)	(mm)		
T253AA150	1 1/2	38	1.81	46	36	150
T253AA200	2	51	2.32	59	49	150
T253AA250	2 1/2	63	2.80	71	60	150
T253AA300	3	76	3.31	84	86	150
T253AA400	4	102	4.33	110	119	150
T253AA600	6	152	6.38	162	200	150
* T253AA662	6 5/8	168	7.01	178	217	150
T253AA800	8	203	8.46	215	288	150
T253AA1000	10	254	10.63	270	512	150
T253AA1200	12	305	12.56	319	534	150

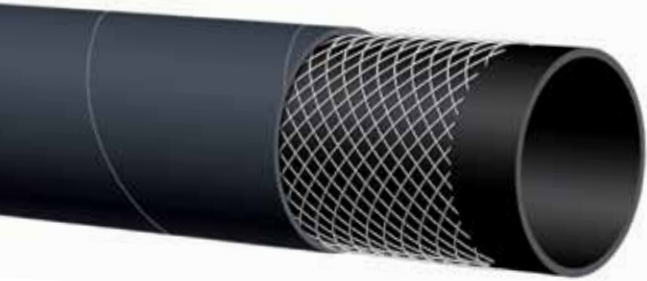
COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

- ★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

T254AA - 150 PSI SBR Water Discharge Hose

**APPLICATIONS:**

- Water discharge hose for construction and irrigation.

COVER:

- Black abrasion and ozone-resistant SBR rubber.

REINFORCEMENT:

- High tensile textile cords.

TUBE:

- Black SBR

TEMPERATURE RANGE:

- -22°F (-30°C) to 176°F (+80°C)

WORKING PRESSURE:

- Constant Pressure — 10 Bar (150 PSI)

STANDARD LENGTH:

- 100 feet: 1½" through 8"
- 50 feet: 8"

Nominal Specifications

Series No.	Nominal ID		Nominal OD		Approx. Wt. lbs./100 ft.	Max. Rec. WP (PSI)
	(in.)	(mm)	(in.)	(mm)		
T254AA150	1 1/2	38	1.89	48	65	150
T254AA200	2	51	2.40	61	85	150
T254AA300	3	76	3.46	88	153	150
T254AA400	4	102	4.49	114	206	150
T254AA600	6	152	6.54	166	309	150
T254AA800	8	203	8.62	219	458	150

COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

- ★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.

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T155AA - High Pressure Water Discharge Hose

APPLICATIONS:

- Heavy duty water discharge hose where tougher operating conditions exist and high pressures are needed.

COVER:

- Black abrasion and ozone-resistant SBR rubber.

REINFORCEMENT:

- High tensile textile cords.

TUBE:

- Black SBR/NBR blend

TEMPERATURE RANGE:

- -22°F (-30°C) to 176°F (+80°C)

STANDARD LENGTH:

- 100 feet: 1 1/2" through 6"
- 50 feet: 6"



Nominal Specifications

Series No.	Nominal ID		Nominal OD		Approx. Wt. lbs./100 ft.	Max. Rec. WP (PSI)
	(in.)	(mm)	(in.)	(mm)		
T155AA150	1 1/2	38	1.97	50	83	300
T155AA200	2	51	2.56	65	110	300
T155AA250	2 1/2	63	3.11	79	151	300
T155AA300	3	76	3.62	92	185	300
T155AA400	4	102	4.65	118	242	300
T155AA600	6	152	6.69	170	410	300

COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

- ★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.

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EZ-Seal™ Leak Resistant Couplings

Ideally suited for Layflat hoses

APPLICATIONS:

- Agriculture • Chemicals • Petroleum • Construction
- Material handling

CONSTRUCTION:

- Aluminum; ASTM B85 Grade 383

FEATURES & BENEFITS:

- Rubber seals - Help prevent leakage.
- Interchangeability - Part C & E conform to Mil Spec A-A-59326.
- Versatile - Suitable for use with other PVC and Rubber Hoses.

Note: To insure proper sealing attach band clamps directly over rubber seals.



Aluminum Part C Female Coupler x Hose Shank

Part Number	Size	Weight Each (lbs.)	Standard Carton
AL-CLF150	1 1/2"	0.77	30
AL-CLF200	2"	0.98	40
AL-CLF300	3"	1.98	15
AL-CLF400	4"	2.87	15



Aluminum Part E Male Adapter x Hose Shank

Part Number	Size	Weight Each (lbs.)	Standard Carton
AL-ELF150	1 1/2"	0.44	40
AL-ELF200	2"	0.64	50
AL-ELF300	3"	1.38	18
AL-ELF400	4"	2.51	20



Aluminum Pin Lug Hose Shank with Brass Swivel Nut Female End (NPSM Threads)

Part Number	Size	Weight Each (lbs.)	Standard Carton
ABF-LF150	1 1/2"	0.37	150
ABF-LF200	2"	0.58	80
ABF-LF300	3"	1.16	24
ABF-LF400	4"	2.01	20



Aluminum Pin Lug Hose Shank Male End (NPSM Threads)

Part Number	Size	Weight Each (lbs.)	Standard Carton
ABM-LF150	1 1/2"	0.22	150
ABM-LF200	2"	0.40	80
ABM-LF300	3"	1.04	24
ABM-LF400	4"	1.48	20

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Technical Data

VINYLFLOW® / IRONSIDES® / VINYLFLOW® EZ-Lite™ Friction Loss per 100 Ft. (PSI)

GPM	1.5"	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"
20	1.2										
30	2.4										
40	5.1	1.1									
50	6.0										
60		2.4	1.4								
80		4.1	1.9	1.0							
90	17.0										
100		6.0	2.8	1.2							
120				1.8							
140				2.2							
160				2.6	0.6						
180				3.3	0.7						
200		22	7		0.8						
220					1.0						
240					1.1		0.2				
250				5							
260					1.3	0.2					
280					1.4	0.2					
300					1.6	0.2					
340						0.3					
350			22								
380						0.4					
420						0.5					
460						0.6					
500					4	0.7					
540						0.8					
580				22		0.9					
620						1.0					
660						1.1					
1,200						3.0					
1,250					22						
1,800							1.5				
2,500								1.0			
3,500									0.8		
3,630						22					
5,000							11			0.6	
6,000											0.4
8,000								8			
12,000									8		
15,000										5	
16,000											30

VINYLFLOW® Longitudinal Elongation (%) (on flat ground only)

PRESSURE (PSI)								
Size	10	20	30	40	50	60	70	80
1 1/2"	0.00	0.01	0.02	0.06	0.14	0.17	0.35	0.50
2"	0.01	0.03	0.04	0.15	0.32	0.38	0.61	0.84
2 1/2"	0.06	0.15	0.23	0.50	0.79	0.95	1.33	1.57
3"	0.03	0.14	0.21	0.34	0.63	0.76	1.10	-
4"	0.14	0.35	0.53	0.90	1.40	1.68	1.98	-
6"	0.14	0.42	0.63	1.08	1.35	-	-	-
8"	0.21	0.57	0.86	1.47	-	-	-	-
10"	0.15	0.39	0.59	-	-	-	-	-
12"	0.14	0.55	0.82	-	-	-	-	-
16"	0.00	0.28	0.42	-	-	-	-	-

REV. 11.08

VINYLFLOW® EZ-Lite™ Longitudinal Elongation (%) - (on flat ground only)

PRESSURE (PSI)						
Size	10	20	30	40	50	60
1 1/2"	0.00	0.10	0.20	0.30	0.40	0.60
2"	0.00	0.20	0.30	0.60	0.80	-
3"	0.20	0.40	0.80	1.20	-	-
4"	0.20	0.50	1.40	1.90	-	-
6"	0.00	0.40	0.80	1.40	-	-
8"	0.20	0.80	1.60	2.20	-	-

For sloped ground, add the head pressure shown below:

Slope Angle	Additional Head Pressure Pressure per 300 ft.
5°	11
10°	23
15°	34
20°	44
25°	55
30°	65
35°	75
40°	83
45°	92

IRONSIDES® Longitudinal Elongation (%) - (on flat ground only)

Size	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
1 1/2"	0.00	0.10	0.10	0.20	0.30	0.36	0.40	0.50	0.60	0.60	0.80	0.90	0.90	1.00	1.10
2"	0.00	0.00	0.00	0.10	0.10	0.10	0.20	0.40	0.60	0.60	0.70	0.80	0.80	0.90	1.10
2 1/2"	0.00	0.00	0.10	0.20	0.30	0.40	0.40	0.60	0.60	0.80	1.00	1.10	1.10	1.30	1.30
3"	0.00	0.10	0.10	0.20	0.30	0.40	0.50	0.50	0.60	0.70	0.80	1.00	1.10		
4"	0.00	0.10	0.20	0.30	0.40	0.50	0.70	0.80	0.90	1.20	1.30	1.40	1.40		
6"	0.00	0.10	0.30	0.50	0.50	0.60	0.80	0.90	1.00	1.20					
8"	0.10	0.20	0.50	0.80	1.00	1.20	1.50	0.00							

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

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09/2005

CONTACT OUR SALES/WAREHOUSE LOCATIONS BELOW WHICH SERVE YOUR AREA

SOUTHWEST WAREHOUSE KURIYAMA OF AMERICA, INC. HOUSTON

531 PORTWALL STREET, SUITE 100
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 DRIVE NW
KENNESAW, GA 30144-7040
Phone: (770) 427-6528
FAX: (770) 423-9249
Toll Free FAX: (800) 423-9249
Web Site: www.fortneysales.com
E-Mail: sales@fortneysales.com

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
Web Site: www.easternrubber.com
E-Mail: sales@easternrubber.com

IN MEXICO:

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
Phone: (81) 1086-1870 O 71
Toll-Free: (within Mexico) 01-800-822-52-00
FAX: (81) 1086-1869
Internet: www.kuriyama.com
Correo Electronico: ventas@kuriyama.com



Visit us
www.kuriyama.com
on the Web!

Distributed by:



Kuriyama of America, Inc.

Headquarters, Sales Office and Warehouse Location

360 E. State Parkway, Schaumburg, IL 60173-5335
Phone: (847) 755-0360 • Toll-free FAX: (800) 800-0320

International FAX: (847) 885-0996

Web Site: www.kuriyama.com
E-Mail: sales@kuriyama.com



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