

Layflat Products

Hoses, Couplings & Assemblies



Kuri Tec Corporation

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EDITION 0909

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Layflat Hoses, Couplings and Accessories by Series Number

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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	.0866	150	300	69.0
IS200	2	50.8	2.09	53.1	.0906	150	300	96.0
IS250	2 1/2	63.5	2.58	65.5	.0945	150	300	123.0
IS300	3	76.2	3.09	78.5	.0984	150	300	156.0
IS400	4	101.6	4.10	104.1	.1102	125	300	228.0
IS600	6	153.4	6.16	156.5	.1181	115	300	363.0
IS800	8	204.7	8.15	207.0	.1220	70	300/100	486/162

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	.0669	80	300	48.0
VF200	2	50.8	2.09	53.1	.0669	80	300	69.0
VF250	2 1/2	63.5	2.598	66.0	.0787	80	300	87.0
VF300	3	76.2	3.130	79.5	.0787	70	300	117.0
VF400	4	101.6	4.134	105.0	.0827	70	300	156.0
VF500	5	127.0	5.039	128.0	.0866	40	300	204.0
VF600	6	153.4	6.181	157.0	.0866	50	300	258.0
VF800	8	204.7	8.169	207.5	.1063	45	300/100	390/130
VF1000	10	253.0	10.118	257.0	.1181	35	100	181.0
VF1200	12	304.8	12.126	308.0	.1181	30	100	195.0
VF1400	14	355.6	14.134	359.0	.1181	30	100	262.0
VF1600	16	406.4	16.142	410.0	.1181	30	100	310.0

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Vinylflow® EZ-Lite™

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)
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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GATORFLOW™

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	.08	200	200	42.0
GF200	2	50.8	2.08	52.8	.08	200	200	60.0
GF250	2 1/2	63.5	2.59	65.8	.08	175	200	82.0
GF300	3	76.2	3.08	78.2	.10	175	200	91.0
GF400	4	101.6	4.08	103.6	.10	150	200/50	132/33
GF500	5	127.0	5.05	128.3	.12	150	200	196.5
GF600	6	153.4	6.10	155.0	.12	150	200/100/50	232/116/58
GF800	8	204.7	8.10	205.7	.12	150	100/50	198/99

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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.



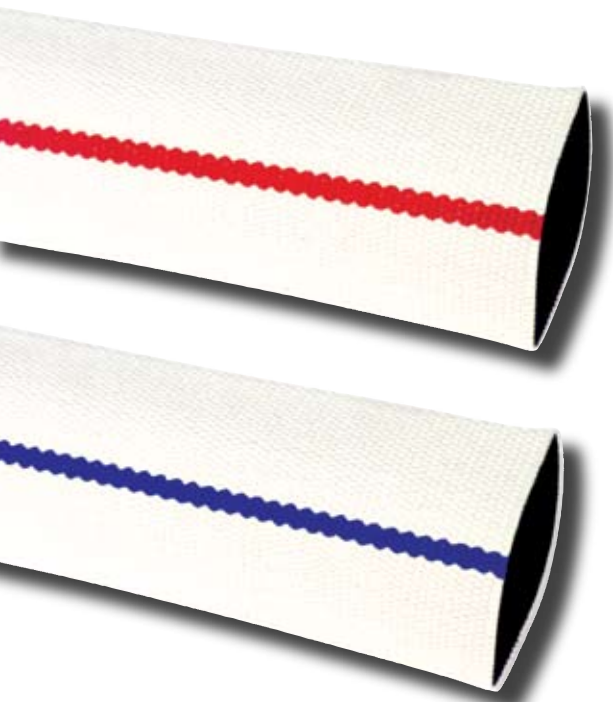
Service Temperature: -20° F (-29° C) to 176° F (+80° C)

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	.10	300	50	5.0
GFY100	1	25.4	1.02	26.0	.14	300	50	7.0

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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 all synthetic 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.)	SIZE (mm)	HOSE ID (In.)	HOSE ID (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	1.57	40.0	150	1 ¹¹ / ₁₆ "	14	100*
SJMD 200X100	2	50.8	2.09	53.0	150	2 ¹ / ₄ "	20	100*
SJMD 250X100	2 1/2	63.5	2.60	66.0	150	2 ³ / ₄ "	26	100*
SJMD 300X100	3	76.2	3.11	79.0	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	1.54	39.0	200	1 ¹³ / ₁₆ "	22	100*
DJMD 250X100	2 1/2	63.5	2.54	64.5	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 all synthetic 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.

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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 380

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.

Part C Coupler x Hose Shank



PART NO.	SIZE (In.)	APPROXIMATE WEIGHT EACH	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

Part E Male Adapter x Hose Shank



PART NO.	SIZE (In.)	APPROXIMATE WEIGHT EACH	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

Pin Lug Hose Shank Couplings - Female Ends



PART NO.	SIZE (In.)	APPROXIMATE WEIGHT EACH	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

Brass swivel nut with NPSM threads

Pin Lug Hose Shank Couplings - Male Ends



PART NO.	SIZE (In.)	APPROXIMATE WEIGHT EACH	STANDARD CARTON
ABM-LF150	1 1/2	0.22	150
ABM-LF200	2	0.4	80
ABM-LF300	3	1.04	24
ABM-LF400	4	1.48	20

NPSM threads

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Kuriyama offers a complete line of couplings and hose accessories to help ensure that its hose products perform well and provide maximum service life.

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Ball Valves



IRRI-LOC™ Couplings

**Stainless Steel
Combination
Hose Nipples**



**T-Bolt
Clamps**



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							

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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.

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