



Kuriyama Layflat Products

Hoses, Couplings & Assemblies



Kuriyama of America, Inc.

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EDITION 0909

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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.



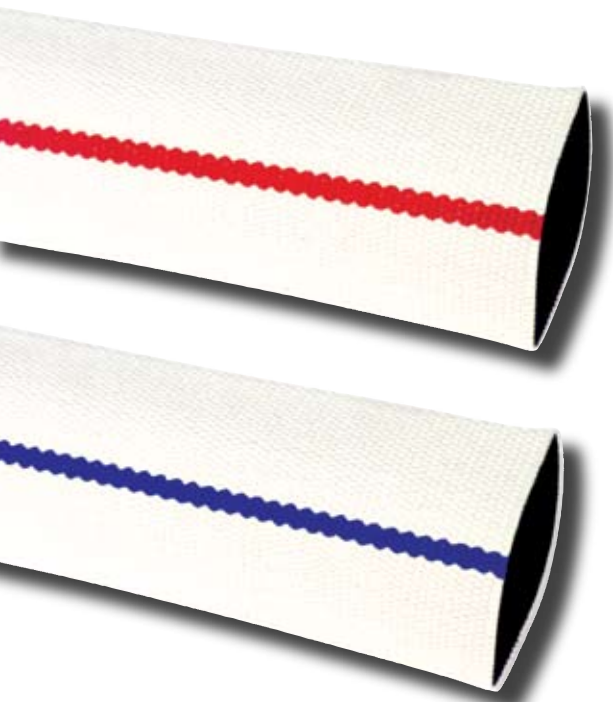
Service Temperature: -20° F (-29° C) to 176° F (+80° C)

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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T253AA - 150 PSI EPDM Layflat Water Discharge Hose



APPLICATION

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

COVER

Black weather and ozone-resistant EPDM rubber.

REINFORCEMENT

High tensile textile cords.

TUBE

Black EPDM rubber.

STANDARD LENGTH

100 feet: 1 1/2" through 10"

50 feet: 6", 8" 10" & 12"

† WORKING PRESSURE

150 PSI constant (10 Bar) EXCEPT 12" (100 PSI)

BRANDING

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

† Please note: 12" ID Maximum Working Pressure is 100 PSI and it is available only in 50' lengths.

Service Temperature: -22° F (-30° C) to 176° F (+80° C)

Nominal Specifications

SERIES NO.	ID (In.)	ID (mm)	OD (In.)	OD (mm)	APPROXIMATE WEIGHT lbs./100 ft.	MAX. REC. WP (PSI)
T253AA150	1 1/2	38	1.81	46	36	150
T253AA200	2	51	2.32	59	50	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	120	150
T253AA600	6	152	6.38	162	199	150
T253AA662	6 5/8	168	7.01	178	216	150
T253AA800	8	203	8.46	215	289	150
T253AA1000	10	254	10.63	270	510	150
T253AA1200	12	305	12.56	319	580	†100

COUPLING SUGGESTIONS

Cam and groove, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

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T254AA - 150 PSI SBR Water Discharge Hose

APPLICATION

Water discharge hose for construction and irrigation.

COVER

Black abrasion and weather-resistant SBR rubber.

REINFORCEMENT

High tensile textile cords.

TUBE

Black SBR/NBR blend

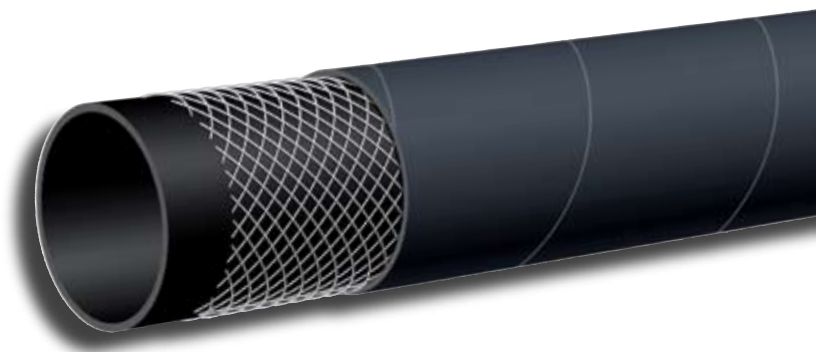
WORKING PRESSURE

Constant Pressure — 10 Bar (150 PSI)

STANDARD LENGTH

100 feet: 1 1/2" through 8"

50 feet: 8"



Service Temperature: -22° F (-30° C) to 176° F (+80° C)

Nominal Specifications

SERIES NO.	ID		OD		APPROX. WT. lbs./100 ft.	MAX. REC. WP (PSI)
	(In.)	(mm)	(In.)	(mm)		
T254AA150	1 1/2	38	1.89	48	64	150
T254AA200	2	51	2.40	61	85	150
T254AA300	3	76	3.46	88	152	150
T254AA400	4	102	4.49	114	205	150
T254AA600	6	152	6.54	166	309	150
T254AA800	8	203	8.62	219	458	150

COUPLING SUGGESTIONS

Cam and groove, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

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T155AA - High Pressure Water Discharge Hose



APPLICATION

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

COVER

Black abrasion and weather-resistant SBR rubber.

REINFORCEMENT

High tensile textile cords.

TUBE

Black SBR/NBR blend

STANDARD LENGTH

100 feet: 1 1/2" through 6"

50 feet: 6"

Service Temperature: -22° F (-30° C) to 176° F (+80° C)

Nominal Specifications

SERIES NO.	ID		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	182	300
T155AA400	4	102	4.65	118	242	300
T155AA600	6	152	6.69	170	390	225

COUPLING SUGGESTIONS

Cam and groove, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

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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.

Request your copy of our comprehensive Couplings & Accessories catalog today! Or view and download a copy from our Web Site www.kuriyama.com



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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