

PVC "Layflat" Water Discharge Hoses

- All hose coils have PVC cores for easier dispensing.
- Hoses coil flat for easy storage.
- Temperature range: 5° F. to 170° F.
- Recommended fittings: Standard short shank aluminum, malleable or brass couplings.

Ironsides®

MSHA IC-218/00

- Premium quality PVC tube and cover, reinforced with two spiral plies and longitudinal synthetic cords.
- MSHA-accepted (Acceptance Marking No. MSHA IC-218/00) for use as a water hose in underground mining applications
- Not intended for use as a fire hose.
- Use for agricultural, quarry, irrigation, mining, construction and industrial applications.
- Excellent as a portable hydrant or relay supply line hose.
- May be coiled or racked when wet.
- Resists kinking and twisting.
- High working pressure.
- Long Lengths (300 ft.).
- High ozone resistance.

Heavy Duty Water Discharge Hose

MSHA
ACCEPTED

Series No.	Nominal Size (in.)	Hose ID (in.)	Approx. Wall Thickness (in.)	Working Pressure (psi)	Coil Length (ft.)	Approx. Weight (lbs./coil)
IS150	11/2	1.61	.0866	150	300	69
IS 200	2	2.09	.0906	150	300	96
IS 250	2 1/2	2.58	.0945	150	300	123
IS 300	3	3.09	.0984	150	300	156
IS 400	4	4.10	.1102	125	300	228
IS 600	6	6.16	.1181	115	300	363
IS 800	8	8.15	.1220	70	300	486

Vinylflow®

- A premium water discharge hose featuring a balanced polyester yarn spiral wrap, longitudinal strength member, and homogeneous PVC tube and cover.
- Use for general purpose water discharge applications — ideal for use as a drip irrigation supply line.
- Smooth tube provides low friction loss (see charts on opposite side).
- Lays straight with minimal elongation under pressure.
- Hose may be punched easily without tearing for drip irrigation applications.
- Homogeneous tube and cover construction eliminates separation.
- Ultraviolet inhibitors reduce aging and weather checking.

Premium Drip Irrigation + Water Discharge Hose

Series No.	Nominal Size (in.)	Hose ID (in.)	Approx. Wall Thickness (in.)	Working Pressure (psi)	Coil Length (ft.)	Approx. Weight (lbs./coil)
VF 150	11/2	1.673	.0669	80	300	48
VF 200	2	2.165	.0669	80	300	69
VF 250	2 1/2	2.598	.0787	80	300	87
VF 300	3	3.130	.0787	70	300	117
VF 400	4	4.134	.0827	70	300	156
VF 500	5	5.039	.0866	40	300	204
VF 600	6	6.181	.0866	50	300	258
VF 800	8	8.169	.1063	45	100/300	130/390
VF 1000	10	10.118	.1181	35	100	181
VF 1200	12	12.126	.1181	30	100	195
VF 1400	14	14.134	.1181	30	100	262
VF 1600	16	16.142	.1181	30	100	310

NUFLO™

- A tough, economical, general purpose PVC water discharge hose featuring polyester yarn reinforcement and homogeneous PVC cover and tube.
- For applications requiring low to medium working pressure.
- Ideally-suited for construction, agricultural, mining and general open end water discharge applications.
- Homogeneous virgin PVC construction eliminates separation of tube and cover.
- High tensile polyester yarn reinforcement provides strength and durability.

General Purpose Water Discharge Hose

Series No.	Nominal Size (in.)	Hose ID (in.)	Approx. Wall Thickness (in.)	Working Pressure (psi)	Coil Length (ft.)	Approx. Weight (lbs./coil)
BLUENF075	3/4	.827	.051	70	300	27
BLUENF100	1	1.063	.051	70	300	31
BLUENF125	1 1/4	1.378	.051	70	300	35
BLUENF150	1 1/2	1.614	.051	70	300	42
BLUENF200	2	2.106	.053	65	300	55
BLUENF250	2 1/2	2.598	.057	60	300	75
BLUENF300	3	3.090	.059	60	300	93
BLUENF400	4	4.094	.061	60	300	126
BLUENF500	5	5.079	.069	40	300	192
BLUENF600	6	6.142	.071	45	300	223
BLUENF800	8	8.150	.090	45	300	351

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



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KLFBR0805

Vinylflow® 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)

Size	PRESSURE (PSI)							
	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	-	-	-	-	-

Rev. 08/05

For sloped ground, add the head pressure shown below:

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

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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.

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