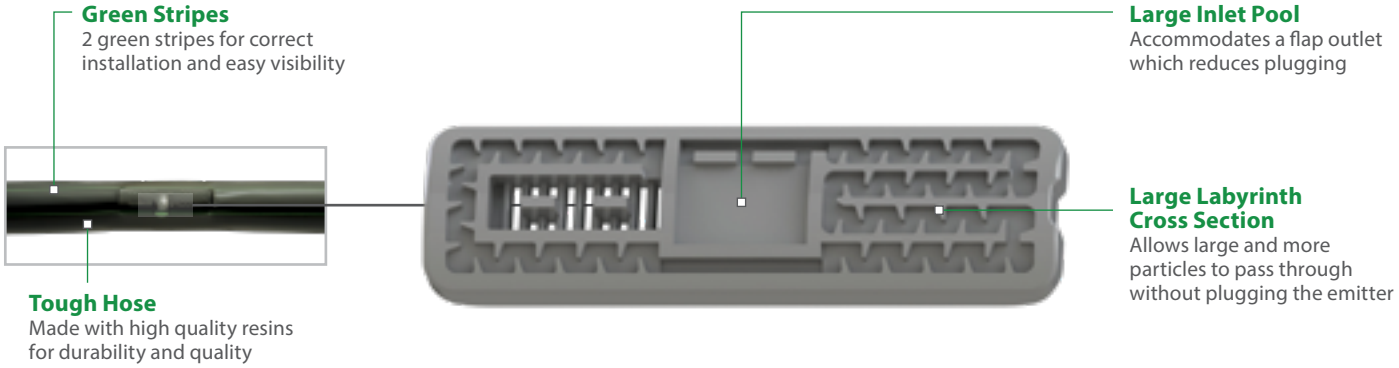
D1500

Trusted Irrigation with Reliable Results



Advantages

- Low exponent reduces the variation in flow rate as the pressure changes, increasing uniformity and improving crop yields
- Designed with one of the largest labyrinth cross sections on the market so particles can pass easily through without clogging the emitter, increasing uniformity
- Wide range of flow rates and configurations provide design flexibility for different crops and applications
- Flap outlet resists soil ingestion during water shut down, a great advantage for buried applications
- Constructed with high quality resins for increased product strength, durability and quality to reduce defective returns and damage in the field

Applications

- Subsurface drip irrigation (SDI)
- On-surface irrigation for crops such as corn, cotton, alfalfa, tomatoes, peppers, melons, onions, etc.

Available Configurations

Flow Rates (gph) 10 psi	0.18, 0.26, 0.32, 0.53, 0.79
Flow Rates (gph) 14.5 psi	0.21, 0.32, 0.40, 0.63, 0.95
Nominal Diameter (in)	5/8, 7/8, 1, 1 1/8, 1 3/8
Wall Thickness (mil)	8, 10, 13, 15, 18, 25
Standard Features	Flap Outlet, 2 Green Stripes
Optional Features	Hole Outlet, No Stripes

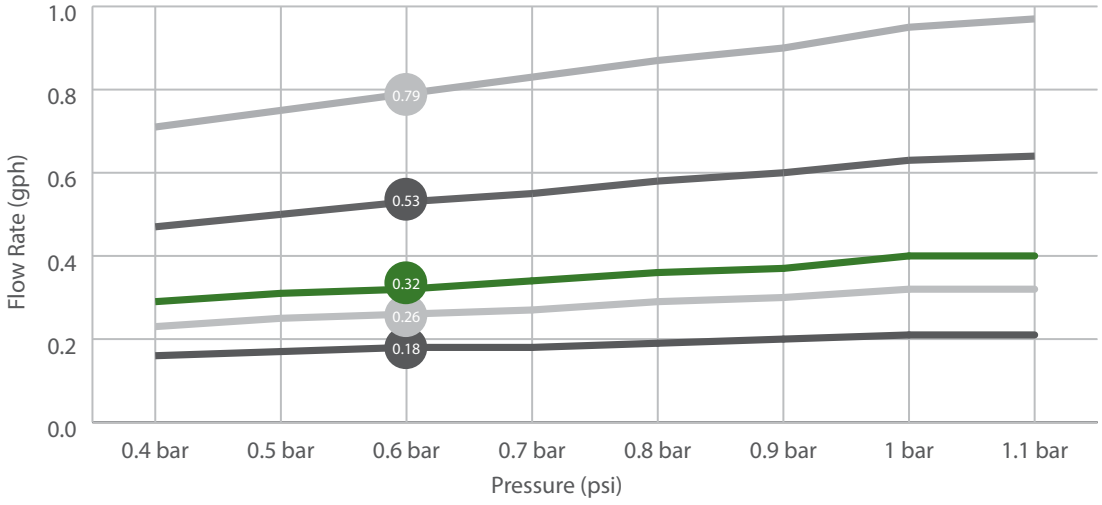
Grower Benefits

- ☑ Superior plugging resistance for better uniformity, greater crop yields and higher profitability
- ☑ Robust construction increases product strength and reduces damage saving you time and money
- ☑ Wide selection of flow rates and configurations to meet the needs of multiple applications

Flow Rate Information

Flow Rate gph per Emitter									Flow Rate gpm per 100 ft								
Nominal Flow Rate	8 psi	9 psi	10 psi	11 psi	12 psi	13 psi	14.5 psi	15 psi	Dripper Spacing	8 psi	9 psi	10 psi	11 psi	12 psi	13 psi	14 psi	15 psi
gph	gph	gph	gph	gph	gph	gph	gph	gph	inch								
0.18	0.16	0.17	0.18	0.18	0.19	0.20	0.21	0.21	6	0.53	0.56	0.59	0.62	0.64	0.67	0.70	0.72
									8	0.39	0.42	0.44	0.46	0.48	0.50	0.53	0.54
									12	0.26	0.28	0.29	0.31	0.32	0.33	0.35	0.36
									14	0.23	0.24	0.25	0.26	0.28	0.29	0.30	0.31
									16	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27
0.26	0.23	0.25	0.26	0.27	0.29	0.30	0.32	0.32	6	0.77	0.82	0.86	0.91	0.95	1.00	1.06	1.08
									8	0.57	0.61	0.65	0.68	0.72	0.75	0.79	0.81
									12	0.38	0.41	0.43	0.46	0.48	0.50	0.53	0.54
									14	0.33	0.35	0.37	0.39	0.41	0.43	0.45	0.46
									16	0.29	0.31	0.32	0.34	0.36	0.37	0.40	0.40
0.32	0.29	0.31	0.32	0.34	0.36	0.37	0.40	0.40	6	0.96	1.02	1.08	1.14	1.19	1.25	1.32	1.35
									8	0.72	0.77	0.81	0.85	0.89	0.93	0.99	1.01
									12	0.48	0.51	0.54	0.57	0.60	0.62	0.66	0.67
									14	0.41	0.44	0.46	0.49	0.51	0.53	0.57	0.58
									16	0.36	0.38	0.41	0.43	0.45	0.47	0.50	0.50
0.53	0.47	0.50	0.53	0.55	0.58	0.60	0.63	0.64	6	1.57	1.67	1.76	1.84	1.92	2.00	2.11	2.15
									8	1.18	1.25	1.32	1.38	1.44	1.50	1.59	1.61
									12	0.78	0.83	0.88	0.92	0.96	1.00	1.06	1.07
									14	0.67	0.71	0.75	0.79	0.82	0.86	0.91	0.92
									16	0.59	0.62	0.66	0.69	0.72	0.75	0.79	0.81
0.79	0.71	0.75	0.79	0.83	0.87	0.90	0.95	0.97	6	2.36	2.50	2.63	2.76	2.88	3.00	3.17	3.22
									8	1.77	1.87	1.97	2.07	2.16	2.25	2.38	2.42
									12	1.18	1.25	1.32	1.38	1.44	1.50	1.59	1.61
									14	1.01	1.07	1.13	1.18	1.24	1.29	1.36	1.38
									16	0.88	0.94	0.99	1.04	1.08	1.13	1.19	1.21

Flow Rate vs Pressure



Maximum Run Lengths (90% EU), 0% Slope x Dripper Spacing (in)*

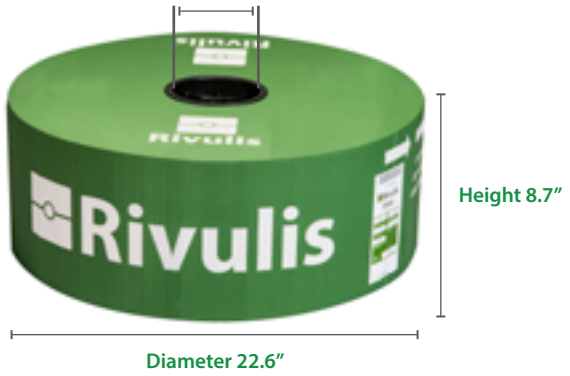
Nominal Diameter	ID	Nominal Flow 10 psi	Flow Rate at 14.5 psi	6″	8″	10″	12″	16″	20″	24″	29.5″
in	in	gph	gph	ft	ft	ft	ft	ft	ft	ft	ft
5/8"	0.634	0.18	0.21	443	544	640	725	882	1027	1158	1342
		0.26	0.32	335	410	482	548	666	774	872	1014
		0.32	0.40	279	348	407	462	561	653	738	853
		0.53	0.63	220	272	318	361	440	512	577	669
		0.79	0.95	157	197	230	262	321	374	420	489
7/8"	0.874	0.18	0.21	787	964	1122	1269	1538	1784	2011	2326
		0.26	0.32	600	735	856	968	1171	1358	1532	1771
		0.32	0.40	528	646	754	853	1033	1200	1351	1561
		0.53	0.63	394	482	561	636	771	895	1007	1115
		0.79	0.95	272	341	403	459	564	656	741	866
1"	0.992	0.18	0.21	981	1204	1404	1591	1929	2237	2522	2919
		0.26	0.32	741	909	1059	1200	1456	1692	1906	2211
		0.32	0.40	653	800	935	1059	1286	1492	1683	1948
		0.53	0.63	489	600	702	794	964	1122	1266	1466
		0.79	0.95	325	407	479	548	676	787	892	1040
1 1/8"	1.126	0.18	0.21	1207	1486	1735	1968	2388	2775	3132	3628
		0.26	0.32	912	1122	1309	1486	1807	2099	2365	2742
		0.32	0.40	804	987	1155	1309	1594	1850	2089	2417
		0.53	0.63	600	741	866	984	1194	1391	1568	1817
		0.79	0.95	397	495	590	676	833	974	1105	1289
1 3/8"	1.346	0.18	0.21	1604	1975	2312	2627	3198	3716	4195	4861
		0.26	0.32	1217	1502	1758	1998	2434	2827	3191	3706
		0.32	0.40	1073	1322	1551	1761	2145	2496	2818	3267
		0.53	0.63	797	984	1155	1312	1601	1863	2106	2440
		0.79	0.95	522	656	777	895	1105	1299	1476	1722

*Approximate run lengths for single laterals only. Please consult a design professional for total system uniformity.

Packaging Data: Roll Weights (lbs.)

			Approximate Roll Weights			
Nominal Diameter	Wall Thickness	ID	6 in	8 in	10 in	12+ in
in	mil	in	lbs	lbs	lbs	lbs
5/8"	8	0.634	51	53	55	58
	10	0.634	50	55	58	64
	13	0.634	43	46	50	52
	15	0.634	40	44	46	50
	18	0.634	41	46	48	51
7/8"	8	0.874	42	45	48	51
	10	0.874	38	41	45	48
	13	0.874	42	47	52	57
	15	0.874	42	47	53	58
	25	0.874	33	37	42	46
1"	13	0.992				50
	15	0.992				55
1 1/8"	13	1.126				64
	15	1.126				69
1 3/8"	15	1.346				69

Packaging Dimensions



Filtration Requirements*

All flow rates	120 mesh/130 micron

* Filtration requirement is dependent on a number of factors including water source and application. Please consult with an irrigation specialist for filtration requirements for your specific application.

Configuration Details

Nominal Diameter	Thickness		ID	Max. Op. Pres.	Spacing	Roll Length
in	mil	mm	in	psi	in	ft
5/8″	8	0.20	0.634	17	6	7215
					8	7545
					10	7870
					12+	8200
	10	0.25		20	6	5905
					8	6560
					10	6890
					12+	7545
	13	0.33		23	6	3935
					8	4265
					10	4590
					12+	4920
	15	0.38		26	6	3445
					8	3770
					10	3935
					12+	4265
	18	0.46		29	6	2625
					8	2950
					10	3115
					12+	3280
7/8"	8	0.20	0.874	15	6	4265
					8	4590
					10	4920
					12+	5245
	10	0.25		19	6	3605
					8	3935
					10	4265
					12+	4590
	13	0.33		23	6	2785
					8	3115
					10	3445
					12+	3770
	15	0.38		23	6	2625
					8	2950
					10	3280
					12+	3605
	25	0.64		29	6	1145
					8	1310
					10	1475
					12+	1640
1"	13	0.33	0.992	19	12+	2950
	15	0.38		20	12+	2805
1 1/8"	13	0.33	1.126	15	12+	2785
	15	0.38		16	12+	2625
1 3/8"	15	0.38	1.346	12	12+	2460

Design Data

Config.	Nominal Flow (10 psi)	Flow Rate (14.5psi)	Internal Diameter	Nominal Diameter	Drip. Const. (K)	Drip Exp. (X)	Kd
dia/mil	gph	gph	inch	inch	psi		
5/8″ 6 mi	0.18	0.21	0.634	0.63	0.0534	0.49	0.10
	0.26	0.30	0.634	0.63	0.0717	0.54	0.10
	0.32	0.40	0.634	0.63	0.0935	0.54	0.10
	0.53	0.61	0.634	0.63	0.1665	0.50	0.10
	0.79	1.00	0.634	0.63	0.2428	0.50	0.10
5/8″ 10 mi	0.18	0.21	0.634	0.63	0.0534	0.49	0.10
	0.26	0.30	0.634	0.63	0.0717	0.54	0.10
	0.32	0.40	0.634	0.63	0.0916	0.54	0.10
	0.53	0.61	0.634	0.63	0.1596	0.50	0.10
	0.79	1.00	0.634	0.63	0.2497	0.50	0.10
5/8″ 13 mi	0.18	0.21	0.634	0.63	0.0534	0.49	0.10
	0.26	0.30	0.634	0.63	0.0717	0.54	0.10
	0.32	0.40	0.634	0.63	0.0916	0.54	0.10
	0.53	0.61	0.634	0.63	0.1596	0.50	0.10
	0.79	1.00	0.634	0.63	0.2497	0.50	0.10
5/8″ 15 mi	0.18	0.21	0.634	0.63	0.0534	0.49	0.10
	0.26	0.30	0.634	0.63	0.0717	0.54	0.10
	0.32	0.40	0.634	0.63	0.0916	0.54	0.10
	0.53	0.61	0.634	0.63	0.1596	0.50	0.10
	0.79	1.00	0.634	0.63	0.2428	0.50	0.10
5/8″ 18 mi	0.18	0.21	0.634	0.63	0.0534	0.49	0.10
	0.26	0.30	0.634	0.63	0.0717	0.54	0.10
	0.32	0.40	0.634	0.63	0.0916	0.54	0.10
	0.53	0.61	0.634	0.63	0.1596	0.50	0.10
	0.79	1.00	0.634	0.63	0.2428	0.50	0.10
7/8″ 8 mi	0.18	0.20	0.874	0.866	0.0520	0.49	0.045
	0.26	0.30	0.874	0.866	0.0717	0.54	0.045
	0.32	0.37	0.874	0.866	0.0916	0.54	0.045
	0.53	0.61	0.874	0.866	0.1596	0.50	0.045
	0.79	1.00	0.874	0.866	0.2497	0.50	0.045
7/8″ 10 mi	0.18	0.20	0.874	0.866	0.0506	0.49	0.045
	0.26	0.30	0.874	0.866	0.0717	0.54	0.045
	0.32	0.37	0.874	0.866	0.0916	0.54	0.045
	0.53	0.61	0.874	0.866	0.1596	0.50	0.045
	0.79	1.00	0.874	0.866	0.2497	0.50	0.045
7/8″ 13 mi	0.18	0.20	0.874	0.866	0.0506	0.49	0.045
	0.26	0.30	0.874	0.866	0.0717	0.54	0.045
	0.32	0.37	0.874	0.866	0.0916	0.54	0.045
	0.53	0.61	0.874	0.866	0.1596	0.50	0.045
	0.79	1.00	0.874	0.866	0.2497	0.50	0.045
7/8″ 15 mi	0.18	0.20	0.874	0.866	0.0506	0.49	0.045
	0.26	0.30	0.874	0.866	0.0717	0.54	0.045
	0.32	0.37	0.874	0.866	0.0916	0.54	0.045
	0.53	0.61	0.874	0.866	0.1596	0.50	0.045
	0.79	1.00	0.874	0.866	0.2497	0.50	0.045
7/8″ 25 mi	0.18	0.20	0.874	0.866	0.0506	0.49	0.045
	0.26	0.30	0.874	0.866	0.0717	0.54	0.045
	0.32	0.37	0.874	0.866	0.0916	0.54	0.045
	0.53	0.61	0.874	0.866	0.1596	0.50	0.045
	0.79	1.00	0.874	0.866	0.2497	0.50	0.045
1″ 13 mi	0.18	0.20	0.992	1.0	0.0506	0.49	0.045
	0.26	0.30	0.992	1.0	0.0717	0.54	0.045
	0.32	0.37	0.992	1.0	0.0916	0.54	0.045
	0.53	0.61	0.992	1.0	0.1596	0.50	0.045
	0.79	1.00	0.992	1.0	0.2497	0.50	0.045
1″ 15 mi	0.18	0.20	0.992	1.0	n/a	0.49	0.045
	0.26	0.30	0.992	1.0	n/a	0.54	0.045
	0.32	0.37	0.992	1.0	n/a	0.54	0.045
	0.53	0.61	0.992	1.0	n/a	0.50	0.045
	0.79	1.00	0.992	1.0	n/a	0.50	0.045
1 1/8″ 15 mi	0.18	0.20	1.126	1.125	0.0506	0.49	0.045
	0.26	0.30	1.126	1.125	0.0717	0.54	0.045
	0.32	0.37	1.126	1.125	0.0916	0.54	0.045
	0.53	0.61	1.126	1.125	0.1596	0.50	0.045
	0.79	1.00	1.126	1.125	0.2497	0.50	0.045
1 3/8″ 15 mi	0.18	0.20	1.346	1.375	0.0506	0.49	0.045
	0.26	0.30	1.346	1.375	0.0717	0.54	0.045
	0.32	0.37	1.346	1.375	0.0916	0.54	0.045
	0.53	0.61	1.346	1.375	0.1596	0.50	0.045
	0.79	1.00	1.346	1.375	0.2497	0.50	0.045