



FEATURES & BENEFITS

Highly Resistant to Plugging: Molded emitters stand up to challenging water & organic fertilizers

Ultra High Strength & Durability: Strength and flexibility make for easy installation & removal, saving on time and labor, and significantly reducing chances of damage

Blue Stripe of Toro Quality: Install blue stripe up for proper outlet placement

Precision Performance: Excellent $C_v \leq 3\%$

Available Flow Rates (gph): Nominal 0.16, 0.25, 0.30, 0.47, & 0.75

Available Wall Thicknesses (mil): 6, 8, 10, 13, 15, 18 & 24

Available Internal Diameters: 5/8" & 7/8"

Compatible with all Toro Pro Loc™ tape fittings

Operating pressure between 6-30 PSI, depending on ID & wall thickness

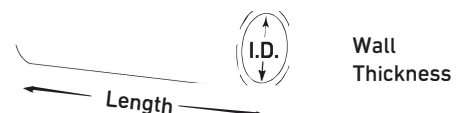
120 mesh filtration required



PART NUMBERING SYSTEM

Example : TW 5 10 12 16 - 620

- Reel length in 10 ft
- Emitter flow rate in GPH
- Emitter Spacing in inches
- Wall thickness in mil
- Internal diameter in inches, 5/8"
- Neptune product



Note: Install Neptune with blue stripe up

Available in 6, 8, 10, 13, 15, 18 and 24 mil

Emitter Flow Part Number	Outlet Spacing		Individual Emitter Flow Rate					Q-100				
			gph		lph			gpm / 100 ft		lph / 1 meter		
	in	cm	@ 8 PSI	@ 10 PSI	@ 0.55 bar	@ 0.7 bar	@ 1 bar	@ 8 PSI	@ 10 PSI	@ 0.55 bar	@ 0.7 bar	@ 1 bar
0.16 GPH @ 8 PSI												
TWXxx0816	8"	20	0.16	0.18	0.60	0.67	0.80	0.40	0.44	2.94	3.30	3.94
TWXxx1216	12"	30	0.16	0.18	0.60	0.67	0.80	0.26	0.29	1.96	2.20	2.62
TWXxx1416	14"	35	0.16	0.18	0.60	0.67	0.80	0.23	0.25	1.68	1.88	2.25
TWXxx1616	16"	40	0.16	0.18	0.60	0.67	0.80	0.20	0.22	1.47	1.65	1.97
TWXxx1816	18"	45	0.16	0.18	0.60	0.67	0.80	0.18	0.20	1.31	1.47	1.75
TWXxx2016	20"	50	0.16	0.18	0.60	0.67	0.80	0.16	0.18	1.18	1.32	1.57
TWXxx2416	24"	60	0.16	0.18	0.60	0.67	0.80	0.13	0.15	0.98	1.10	1.31
0.25 GPH @ 8 PSI												
TWXxx0825	8"	20	0.25	0.29	0.95	1.08	1.30	0.64	0.71	4.66	5.31	6.40
TWXxx1225	12"	30	0.25	0.29	0.95	1.08	1.30	0.42	0.47	3.10	3.54	4.27
TWXxx1425	14"	35	0.25	0.29	0.95	1.08	1.30	0.36	0.41	2.66	3.03	3.66
TWXxx1625	16"	40	0.25	0.29	0.95	1.08	1.30	0.32	0.36	2.33	2.65	3.20
TWXxx1825	18"	45	0.25	0.29	0.95	1.08	1.30	0.28	0.32	2.07	2.36	2.84
TWXxx2025	20"	50	0.25	0.29	0.95	1.08	1.30	0.25	0.28	1.86	2.12	2.56
TWXxx2425	24"	60	0.25	0.29	0.95	1.08	1.30	0.21	0.24	1.55	1.77	2.13
0.30 GPH @ 8 PSI												
TWXxx0830	8"	20	0.30	0.34	1.14	1.27	1.56	0.75	0.85	5.59	6.24	7.68
TWXxx1230	12"	30	0.30	0.34	1.14	1.27	1.56	0.50	0.57	3.73	4.16	5.12
TWXxx1430	14"	35	0.30	0.34	1.14	1.27	1.56	0.43	0.49	3.19	3.57	4.39
TWXxx1630	16"	40	0.30	0.34	1.14	1.27	1.56	0.38	0.43	2.79	3.12	3.84
TWXxx1830	18"	45	0.30	0.34	1.14	1.27	1.56	0.33	0.38	2.48	2.77	3.41
TWXxx2030	20"	50	0.30	0.34	1.14	1.27	1.56	0.30	0.34	2.24	2.50	3.07
TWXxx2430	24"	60	0.30	0.34	1.14	1.27	1.56	0.25	0.28	1.86	2.08	2.56
0.47 GPH @ 8 PSI												
TWXxx0847	8"	20	0.47	0.53	1.78	1.99	2.40	1.17	1.31	8.76	9.78	11.81
TWXxx1247	12"	30	0.47	0.53	1.78	1.99	2.40	0.78	0.87	5.84	6.52	7.87
TWXxx1447	14"	35	0.47	0.53	1.78	1.99	2.40	0.67	0.75	5.00	5.59	6.75
TWXxx1647	16"	40	0.47	0.53	1.78	1.99	2.40	0.59	0.66	4.38	4.89	5.91
TWXxx1847	18"	45	0.47	0.53	1.78	1.99	2.40	0.52	0.58	3.89	4.35	5.25
TWXxx2047	20"	50	0.47	0.53	1.78	1.99	2.40	0.47	0.52	3.50	3.91	4.72
TWXxx2447	24"	60	0.47	0.53	1.78	1.99	2.40	0.39	0.44	2.92	3.26	3.94
0.75 GPH @ 8 PSI												
TWXxx0875	8"	20	0.75	0.84	2.83	3.16	3.80	1.87	2.09	13.92	15.56	18.70
TWXxx1275	12"	30	0.75	0.84	2.83	3.16	3.80	1.24	1.39	9.28	10.37	12.47
TWXxx1475	14"	35	0.75	0.84	2.83	3.16	3.80	1.07	1.19	7.95	8.89	10.69
TWXxx1675	16"	40	0.75	0.84	2.83	3.16	3.80	0.93	1.04	6.96	7.78	9.35
TWXxx1875	18"	45	0.75	0.84	2.83	3.16	3.80	0.83	0.93	6.18	6.91	8.31
TWXxx2075	20"	50	0.75	0.84	2.83	3.16	3.80	0.75	0.83	5.57	6.22	7.48
TWXxx2475	24"	60	0.75	0.84	2.83	3.16	3.80	0.62	0.70	4.64	5.19	6.23

X - denotes 5 for 5/8" diameter, 7 for 7/8" diameter

xx - denotes mil thickness

Nominal flow per emitter at 8 PSI

Internal Diameter	Wall Thickness (Mil, .000")	Operating Pressure				Emitter Spacing In Inches	Reel Lengths	
		PSI		Bar			Feet	Meters
		Min	Max	Min	Max			
5/8" (0.635 in) (16 mm)	6	6	12	0.41	0.83	8"	7,400	2,256
						12" - 23"	9,400	2,865
						24"+	10,000	3,048
	8	6	16	0.41	1.03	8"	6,400	1,950
						12"+	7,500	2,286
						8"	5,600	1,707
	10	6	20	0.41	1.38	12"+	6,200	1,890
						8"	4,300	1,311
						12"+	4,700	1,433
	13	6	25	0.41	1.72	8"	3,900	1,189
						12"+	4,200	1,280
						8"	2,900	884
15	6	30	0.41	2.07	12"+	3,100	945	
					8"	2,000	610	
					12"+	2,000	610	
7/8" (0.880 in) (22 mm)	6	6	10	0.41	0.69	8"	5,300	1,615
						12"	6,600	2,012
						14"+	7,380	2,249
	8	6	12	0.41	0.83	8"	4,400	1,341
						12"+	5,200	1,585
						8"	4,200	1,280
	10	6	15	0.41	1.03	12"+	4,900	1,494
						8"	3,500	1,067
						12"+	4,000	1,220
	13	6	20	0.41	1.38	8"	2,400	732
						12"+	2,700	823
						8"	1,900	579
15	6	25	0.41	1.72	12"+	2,100	640	
					8"	1,300	396	
					12"+	1,400	427	

Flow rate nominal GPH at 8 PSI	Coefficient of Variation (Cv)	Barb loss factor (Kd) for 1/2" tubing	Barb loss factor (Kd) for 3/4" tubing	Emitter Exponent	K Value	Filtration
0.16	≤ 3%	.10	.05	0.50	0.0561	120 mesh
0.25	≤ 3%	.10	.05	0.51	0.0864	120 mesh
0.30	≤ 3%	.10	.05	0.51	0.1050	120 mesh
0.47	≤ 3%	.10	.05	0.50	0.1660	120 mesh
0.75	≤ 3%	.10	.05	0.49	0.2687	120 mesh

Neptune Emitter Flow vs. Pressure

