



FLOWCONTROL™



FLOW-REGULATING DRIP TAPE

FLOWCONTROL™



The Next Level of Uniformity, Efficiency and Yield

The new Toro FlowControl drip tape is the latest advancement in precision drip irrigation. It's the only flow-regulating drip tape available — giving you more control and uniformity wherever you farm. The innovative emitter design provides you with the flexibility to increase or decrease flow while maintaining a uniform output across changing elevations. Now you have more control over how much water your crops get, especially in long runs or hilly terrain, where water pressure can vary throughout the run.

ADVANTAGE

1

MORE UNIFORM OUTPUT FOR ANY TERRAIN

STANDARD TAPE

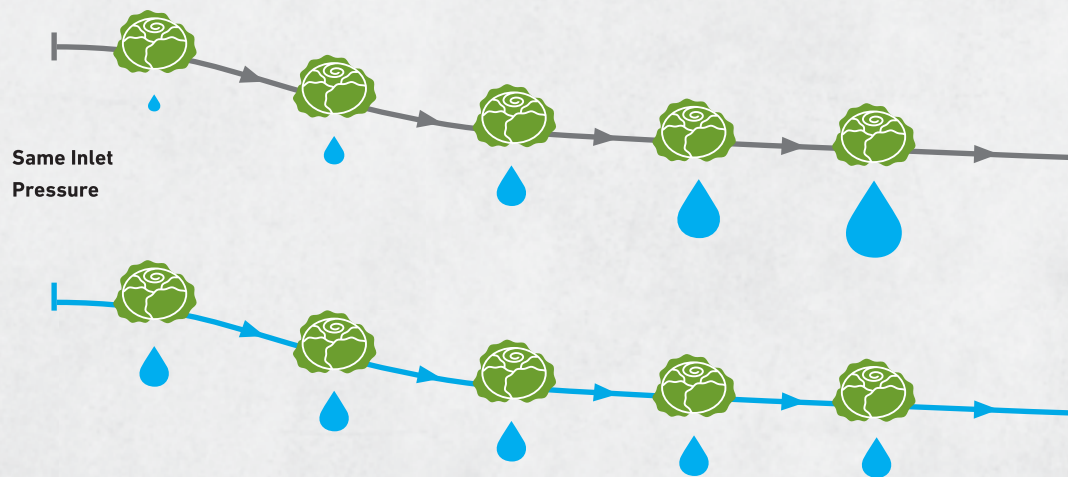
Standard tapes stress plants and reduce yield and efficiency by over- or under-watering as pressure changes throughout the run.

RESULT: Wasted water and fertilizer, stressed plants and reduced yields.

FLOWCONTROL™

Toro FlowControl gives you uniform output regardless of elevation changes. So now you can adjust the amount of water you give your plants on hilly terrain, and they'll all receive the same amount through our uniform delivery system.

RESULT: More uniform plants and higher yields even in hilly terrain that might otherwise be impractical to farm.



BENEFITS OF FLOWCONTROL

vs. Standard Drip Tape

- ▶ High uniformity on longer runs and hilly terrain
- ▶ Improved system performance as a result of better irrigation uniformity
- ▶ Increased planting and harvesting efficiency by farming longer lengths of run
- ▶ Eliminate extra manifolds and labor-intensive jumpers (micro-tubing used to regulate pressure)

vs. Pressure-Compensating Tape

- ▶ Retain flexibility to increase or decrease application rate for greater control over watering and scheduling decisions
- ▶ Available in a wider range of thicknesses to meet the needs of all farming applications, including more affordable 5/8-inch 6mil and 7/8-inch 8mil
- ▶ One price for any emitter spacing from 6 – 24 inches, giving you the wetting pattern you want without paying a premium
- ▶ Designed with patented PBX technology for increased durability, clog resistance and uniform output



ADVANTAGE

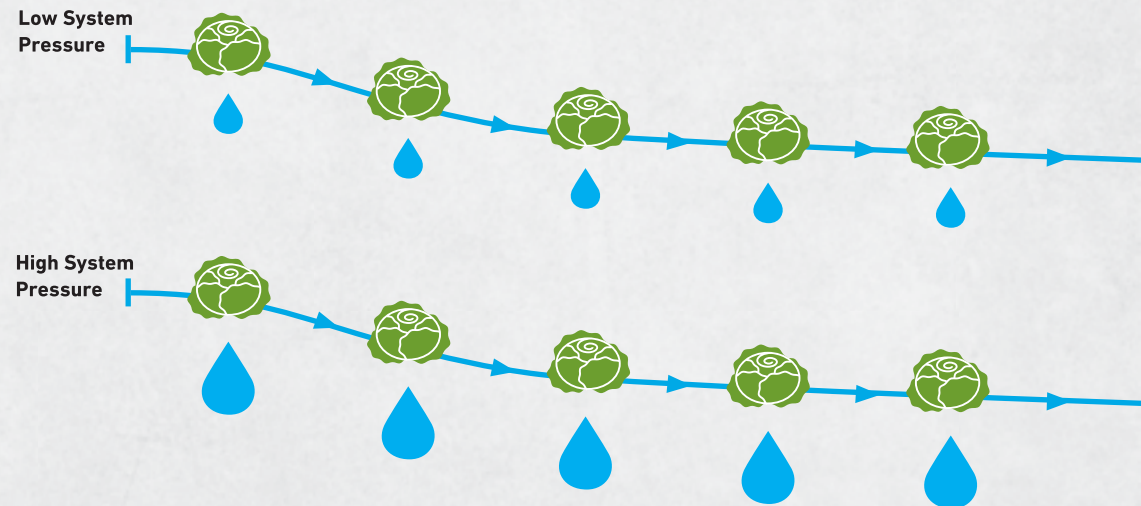
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THE ABILITY TO REGULATE THE FLOW

FLOWCONTROL™

Toro FlowControl puts you in control of watering decisions. You control how much water your plants receive by increasing or decreasing the operating pressure — without sacrificing uniformity.

RESULT: More uniform delivery of water and fertilizer to the roots of your plants with the flexibility to control application rates.

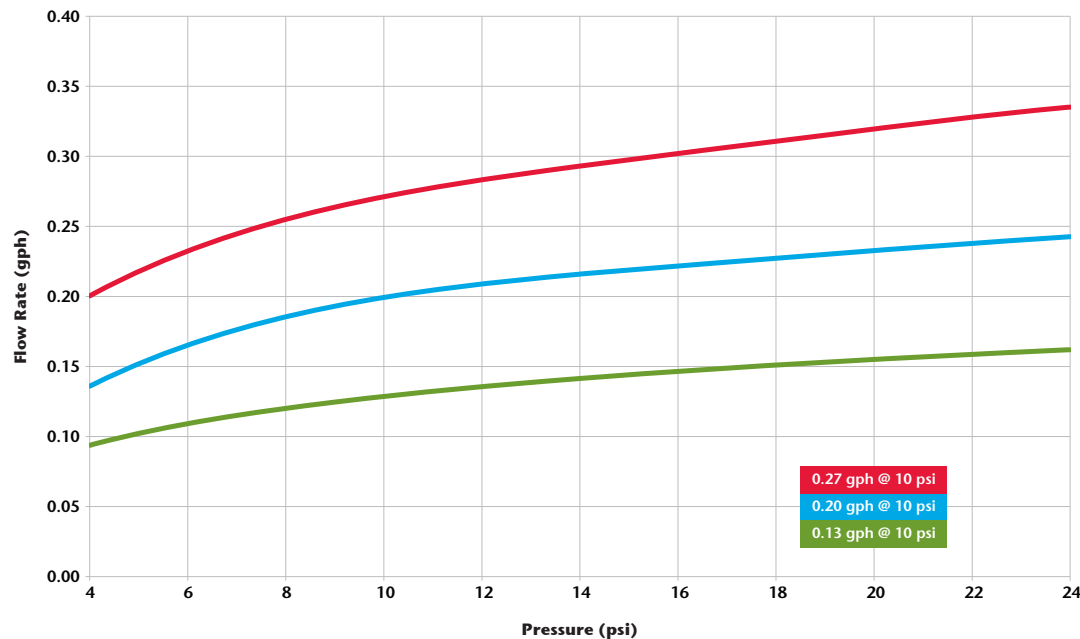


FLOWCONTROL™ PRODUCT SPECIFICATIONS

FLOWCONTROL FLOW RATES

Emitter Flow Part Number	Outlet Spacing		Emitter Flow Rate		Q-100		Emitter Exponent	Filtration Requirement
			gph	lph	gpm/100 ft	lph/1 meter		
			@ 10 psi	@ 0.7 bar	@ 10 psi	@ 0.7 bar		
0.13 gph emitter								
EAFcx1222	12	30	0.13	0.51	0.22	1.66	0.3	150 (98)
EAFcx2411	24	60	0.13	0.51	0.11	0.83		
0.20 gph emitter								
EAFcx0667	6	15	0.20	0.76	0.67	4.99	0.3	150 (98)
EAFcx0850	8	20	0.20	0.76	0.50	3.74		
EAFcx1234	12	30	0.20	0.76	0.34	2.50		
EAFcx1625	16	40	0.20	0.76	0.25	1.87		
EAFcx1822	18	45	0.20	0.76	0.22	1.67		
EAFcx2417	24	60	0.20	0.76	0.17	1.25		
0.27 gph emitter								
EAFcx0690	6	15	0.27	1.01	0.90	6.66	0.3	150 (98)
EAFcx0867	8	20	0.27	1.01	0.67	4.99		
EAFcx1245	12	30	0.27	1.01	0.45	3.33		
EAFcx1634	16	40	0.27	1.01	0.34	2.50		
EAFcx1830	18	45	0.27	1.01	0.30	2.22		
EAFcx2422	24	60	0.27	1.01	0.22	1.67		

Emitter Flow vs Pressure



FLOWCONTROL WALL THICKNESS

Diameter	Wall Thickness	Operating Pressure				Reel Length		Reel Weight	
		psi		bar		ft	meters	lbs	kg
		min	max ¹	min	max ¹				
5/8" (16mm) 0.635"	6 mil	4	16	0.3	1.1	10,000	3,048	64	29
	8 mil	4	16	0.3	1.1	7,500	2,286	66	30
	10 mil	4	25	0.3	1.7	6,000	1,829	63	29
	12 mil	4	25	0.3	1.7	5,100	1,554	63	29
	15 mil	4	25	0.3	1.7	4,000	1,219	63	29
7/8" (22mm) 0.880"	8 mil	4	15	0.3	1.0	6,000	1,829	72	33
	10 mil	4	20	0.3	1.4	4,400	1,341	71	32
	12 mil	4	20	0.3	1.4	4,000	1,219	72	33
1 3/8" (35mm) 1.380"	15 mil	4	22	0.3	1.5	3,000	914	66	30
	15 mil	4	18	0.3	1.3	2,700	823	87	39

KEY

PART NUMBER: EAFc 5 06 08 67 - 1000
 EAFc = FlowControl drip tape
 5 = Diameter (inch)
 06 = Mil Thickness
 08 = Emitter Spacing (inch)
 67 = Flow Rate (gph/100)
 1000 = Reel Length (feet/10)

* X denotes the diameter. 5 for 5/8", 7 for 7/8" and 11 for 1-3/8"
 ** xx denotes mil thickness.
 1-3/8" only available in 15 mil.
 Metric outlet spacing expressed in nominal length.
 Coefficient of Variation (Cv) Less than 3%.
¹ Maximum pressure within laterals while operating or flushing

Take control of your application with Toro FlowControl drip tape. Call your local Toro dealer if you have any questions about choosing the best tape for your crop, soil type and terrain. You can also find AquaFlow, Toro's drip irrigation system design program, at driptips.toro.com.

FLOWCONTROL™ LENGTH OF RUN

Emitter Flow Part Number	Q-100 (gpm/100ft)
0.13 gph emitter	
EAFcx1222	0.22
EAFcx2411	0.11
0.20 gph emitter	
EAFcx0667	0.67
EAFcx0850	0.50
EAFcx1234	0.34
EAFcx1625	0.25
EAFcx1822	0.22
EAFcx2417	0.17
0.27 gph emitter	
EAFcx0690	0.90
EAFcx0867	0.67
EAFcx1245	0.45
EAFcx1634	0.34
EAFcx1830	0.30
EAFcx2422	0.22

HOW TO DETERMINE LENGTH OF RUN

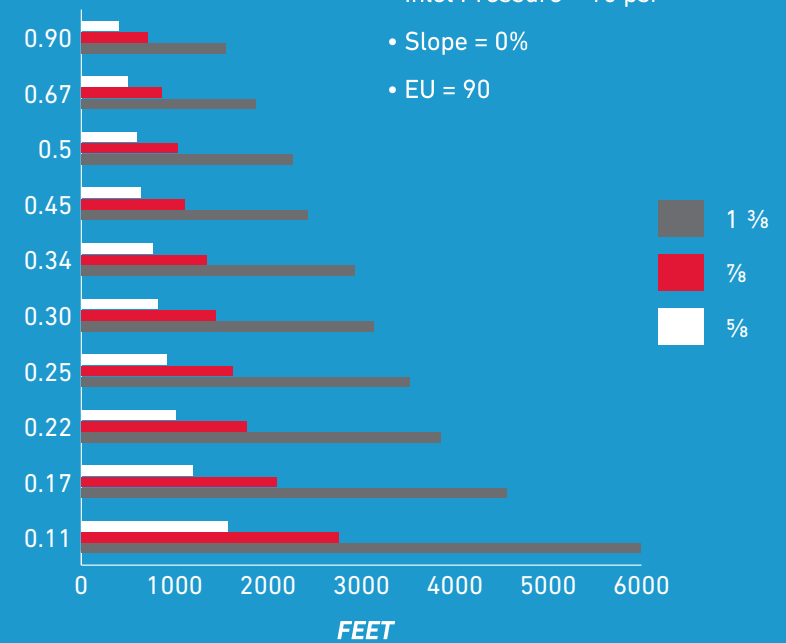
1. Find the Q-100 (gpm/100 ft) that corresponds to desired Emitter Flow Part Number.
2. Go to desired Tubing Diameter chart and match the Q-100 (identified above) with desired slope % (uphill = negative, downhill = positive) to find length of run in feet.

5/8" DIAMETER					
Length of Run (ft) @ 10 psi for 90% EU					
Q-100	Slopes				
	-2%	-1%	0%	+1%	+2%
0.11	386	691	1568	2072	1970
0.17	374	629	1191	1547	1572
0.22	367	586	1008	1290	1338
0.25	360	555	921	1166	1222
0.30	349	524	820	1024	1085
0.34	343	504	762	949	1012
0.45	322	448	633	770	824
0.50	312	424	591	712	769
0.67	290	374	493	583	629
0.90	261	324	406	472	506

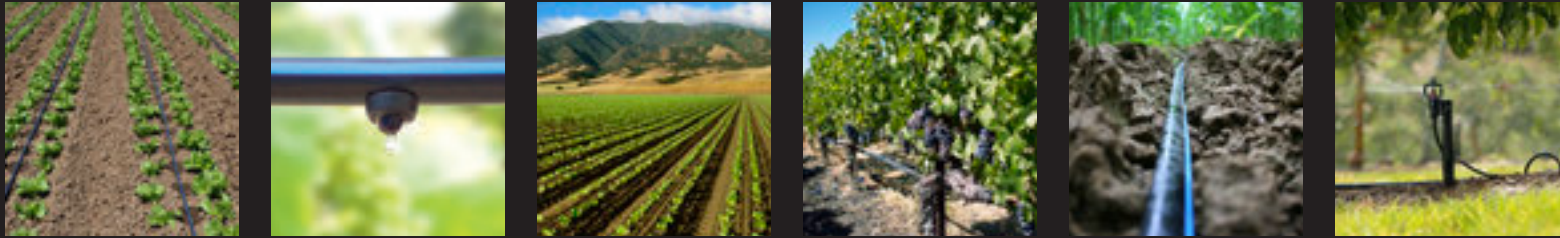
7/8" DIAMETER					
Length of Run (ft) @ 10 psi for 90% EU					
Q-100	Slopes				
	-2%	-1%	0%	+1%	+2%
0.11	393	762	2755	3569	619
0.17	392	737	2094	2778	649
0.22	387	712	1772	2351	699
0.25	387	697	1618	2141	2014
0.30	381	674	1440	1896	1849
0.34	381	661	1347	1765	1749
0.45	373	612	1113	1424	1472
0.50	368	591	1037	1332	1374
0.67	355	541	862	1088	1149
0.90	337	481	712	883	937

1 3/8" DIAMETER					
Length of Run (ft) @ 10 psi for 90% EU					
Q-100	Slopes				
	-2%	-1%	0%	+1%	+2%
0.11	393	787	5993	1224	599
0.17	393	786	4555	1274	599
0.22	393	774	3855	1346	604
0.25	393	774	3519	1421	607
0.30	393	773	3134	3938	611
0.34	393	769	2930	3751	612
0.45	393	749	2421	3186	629
0.50	393	748	2264	2992	637
0.67	387	724	1874	2503	674
0.90	386	687	1549	2049	1949

Q-100 (GPM/100 FT)



Note: Information contained in Length of Run Charts represents single lateral uniformities only. While operating or flushing, pressures within laterals are not to exceed maximum pressure specification. Charts are for reference only – a professional irrigation system designer should be used when designing an irrigation system. For more irrigation design information, refer to AquaFlow at aquaflow.toro.com.



WHEN WE SAY **COUNT ON IT**, WE MEAN IT

With an expanding population, growers around the world are looking to technologies that help increase productivity of existing land and maximize precious water resources. Toro's drip irrigation solutions help growers of permanent, field and row crops around the world realize substantial benefits in yield, quality, and water savings from the precise application of water and nutrients.

Visit toro.com or call (800) 333-8125 for more information or to find your local Toro dealer.
Visit driptips.toro.com to learn more about drip irrigation and how it can help your farm.



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