

Chapin® - Marathon Drip Tape 7/8"

Coil Lengths

Nominal Diameter		Wall Thickness		Recommended operating pressure		Maximum Operating Pressure		Maximum Flushing Pressure		Coil Length	
(mm)	(inch)	(mm)	(mil)	(kg/cm ²)	(psi)	(kg/cm ²)	(psi)	(kg/cm ²)	(psi)	(meter)	(feet)
22	7/8"	0.15	6	0.70	10	0.8	12	0.8	12	2287	7500
		0.20	8	0.70	10	1.1	16	1.1	16	1677	5500
		0.25	10	0.70	10	1.6	23	1.6	23	1372	4500
		0.33	13	0.70	10	2.0	28	2.0	28	1067	3500
		0.38	15	0.70	10	2.5	36	2.5	36	915	3000

Note : 1 mil = 1/1000th part of an inch = 0.0254 mm; U.S. Patents 4473191, 4534515, 4572756, 4642152

Technical Specifications - Metric

Nominal Diameter (mm)	Spacing (cm)	Nominal Discharge at 10 psi	
		lph/100 mtr	lph/outlet
22	5	1116	0.57
	10	513, 744, 989, 1339	0.53, 0.76, 1.01, 1.36
	15	186, 223, 372, 484, 744, 989	0.28, 0.34, 0.57, 0.74, 1.13, 1.51
	20	298, 372, 484, 632, 1116	0.60, 0.76, 0.98, 1.29, 2.27
	30	186, 223, 298, 372, 484, 744	0.57, 0.68, 0.91, 1.13, 1.47, 2.27
	40	149, 186, 298, 372	0.60, 0.76, 1.21, 1.51
	45	372	1.70
	60	75, 149, 223, 372	0.80, 0.91, 1.36, 2.27

Technical Specifications - US

Nominal Diameter (inch)	Spacing (inch)	Nominal Discharge at 10 psi	
		gpm/100 ft	gph/outlet
7/8"	2	1.50	0.15
	4	0.69, 1.00, 1.33, 1.80	0.14, 0.20, 0.27, 0.36
	6	0.25, 0.30, 0.50, 0.65, 1.00, 1.33	0.08, 0.09, 0.15, 0.20, 0.30, 0.40
	8	0.40, 0.50, 0.65, 0.85, 1.50	0.16, 0.20, 0.26, 0.34, 0.60
	12	0.25, 0.30, 0.40, 0.50, 0.65, 1.00	0.15, 0.18, 0.24, 0.30, 0.39, 0.60
	16	0.20, 0.25, 0.40, 0.50	0.16, 0.20, 0.32, 0.40
	18	0.50	0.45
	24	0.10, 0.20, 0.30, 0.50	0.02, 0.24, 0.36, 0.60

Ordering Specifications

MAR	22	XX	XX	XXX	XXXX
	Nominal Dia. (22 mm)	Wall Thickness, mil	Hole Spacing, cm	Nominal Discharge, lph/m (SDR) x 100	Coil Length, m

Example : MAR2206204841677 – This code refers to Chapin - Twin-Wall™ - Marathon Drip Tape 22mm (7/8") nominal diameter, 6 mil (0.15mm) wall thickness, hole spacing 20cm (8"), nominal discharge per meter of 4.84 lph (0.65 gpm/100 feet) and coil length of 1677m.

Marathon Drip Tape 7/8"



22 mm ID at minimum operating pressure 0.7 kg/cm²

Dripper Spacing: 10 cm						
Emitter Flow Rates (lph)		0.53	0.76	1.01	1.36	
	Slope, %	Length (m)				
10 % discharge variation	2	78.2	73.0	67.8	61.6	
	1	118.1	101.7	89.2	77.0	
	0	174.3	137.3	114.1	94.0	
	-1	229.9	172.3	138.5	110.7	
	-2	275.3	202.6	160.4	126.1	
7.5% discharge variation	2	61.6	58.5	55.2	51.0	
	1	98.4	86.3	76.6	66.8	
	0	157.7	124.2	103.2	85.0	
	-1	218.0	162.3	129.8	103.2	
	-2	83.8	194.8	153.3	119.8	

Note: + slope : Uphill, - slope : Downhill

Dripper Spacing: 15 cm							
Emitter Flow Rates (lph)		0.28	0.34	0.57	0.74	1.13	1.51
	Slope, %	Length (m)					
10 % discharge variation	2	85.2	84.5	81.6	79.1	73.2	67.9
	1	156.2	150.2	132.2	121.2	102.2	89.6
	0	345.3	299.9	215.9	182.6	138.3	114.6
	-1	543.6	453.4	299.3	243.3	173.7	139.4
	-2	99.6	101.3	112.4	292.2	204.5	161.4
7.5 % discharge variation	2	65.2	64.9	63.4	62.1	58.6	55.3
	1	123.0	119.6	108.2	100.7	86.6	76.8
	0	312.3	271.2	195.3	165.2	125.1	103.7
	-1	168.6	437.1	285.6	231.0	163.7	130.5
	-2	72.7	73.3	76.8	81.5	196.7	154.4

Note: + slope : Uphill, - slope : Downhill

Dripper Spacing: 20 cm						
Emitter Flow Rates (lph)		0.6	0.76	0.98	1.29	2.27
	Slope, %	Length (m)				
10 % discharge variation	2	83.2	81.6	79.2	75.6	65.4
	1	141.0	132.0	121.2	109.0	84.4
	0	250.6	215.2	182.8	153.0	105.8
	-1	361.0	298.2	243.8	196.2	127.0
	-2	105.2	112.8	292.8	232.6	146.2
7.5 % discharge variation	2	64.2	63.4	62.2	60.0	53.6
	1	114.0	108.0	100.6	91.8	72.8
	0	226.8	194.8	165.4	138.4	95.8
	-1	346.2	284.8	231.4	185.2	118.8
	-2	74.8	76.8	81.6	224.4	139.4

Note: + slope : Uphill, - slope : Downhill

Maximum Running Length for Marathon Drip Tape 7/8"



22 mm ID at minimum operating pressure 0.7 Kg/cm²

Dripper Spacing: 30 cm							
Emitter Flow Rates (lph)		0.57	0.68	0.91	1.13	1.47	2.27
Slope, %		Length (m)					
10 % discharge variation	2	85.3	84.7	83.2	81.7	79.3	73.0
	1	155.5	150.7	140.8	132.4	121.3	102.1
	0	338.5	302.2	249.1	216.7	182.5	137.8
	-1	529.9	457.9	358.3	301.0	243.1	173.2
	-2	100.0	101.5	105.7	112.6	292.0	203.5
7.5% discharge variation	2	65.5	65.2	64.3	63.7	62.2	58.6
	1	122.8	119.8	113.8	108.4	100.6	86.5
	0	306.4	273.4	225.4	196.0	165.1	124.6
	-1	172.0	441.4	343.6	287.2	230.8	163.0
	-2	73.0	73.6	75.1	76.9	82.0	195.7

Note: + slope : Uphill, - slope : Downhill

Dripper Spacing: 41 cm					
Emitter Flow Rates (lph)		0.6	0.76	1.21	1.51
Slope, %		Length (m)			
10 % discharge variation	2	85.6	85.2	83.2	81.6
	1	160.4	155.2	140.8	132.4
	0	393.2	337.6	249.2	216.8
	-1	248.0	528.4	358.8	300.8
	-2	98.8	100.0	105.6	112.4
7.5 % discharge variation	2	65.6	65.2	64.4	63.6
	1	125.6	122.4	113.6	108.4
	0	355.6	305.2	225.6	196.0
	-1	158.0	172.4	344.0	287.2
	-2	72.8	73.2	75.2	76.8

Note: + slope : Uphill, - slope : Downhill

Dripper Spacing: 61 cm					
Emitter Flow Rates (lph)		0.8	0.91	1.36	2.27
Slope, %		Length (m)			
10 % discharge variation	2	85.8	85.8	84.6	81.6
	1	162.6	160.2	150.6	132.0
	0	424.2	390.6	300.6	216.0
	-1	228.0	251.4	455.4	299.4
	-2	98.4	99.0	101.4	113.4
7.5 % discharge variation	2	66.0	65.4	64.8	63.6
	1	126.6	125.4	120.0	108.0
	0	383.4	353.4	271.8	195.0
	-1	154.8	158.4	438.6	285.6
	-2	72.6	72.6	73.8	77.4

Note: + slope : Uphill, - slope : Downhill