

TIRAN 23009

For use in row crops

- Superior Turbonet® flow regime
- Wide filtration area
- Wide cross section improves clogging resistance

DRIPPERS TECHNICAL DATA

Maximum working pressure (bar)	nominal flow rate* (l/h)	water passage dimensions width-depth-length (mm)	filtration area (mm ²)	coefficient K	exponent X
3.0	1.0	0.60x0.80x75.0	70.0	0.348	0.46
	1.5	0.73x0.85x75.0	70.0	0.520	0.46
	2.0	0.76x1.08x75.0	70.0	0.693	0.46
	4.0	1.06x1.40x75.0	76.0	1.387	0.46
	8.0	1.68x1.40x37.0	76.0	2.774	0.46

* At 1 bar pressure

DRIPPERS FLOW VS. PRESSURE

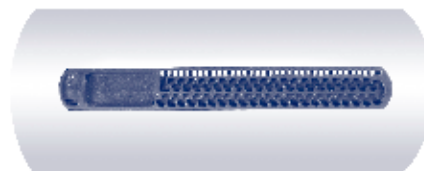
Flow rate (l/h) at pressure (bar)

Model	1.00	1.50	2.00	2.50	3.00
1.00	1.00	1.21	1.38	1.53	1.66
1.50	1.50	1.81	2.06	2.29	2.49
2.00	2.00	2.41	2.75	3.05	3.31
4.00	4.00	4.82	5.50	6.10	6.63
8.00	8.00	9.64	11.00	12.19	13.26

DRIPPERLINE TECHNICAL DATA

Model	inside Ø (mm)	wall thickness (mm)	outside Ø (mm)	max. working pressure (bar)	KD
23009	20.80	0.90	22.60	3.0	0.10

Tiran dripper



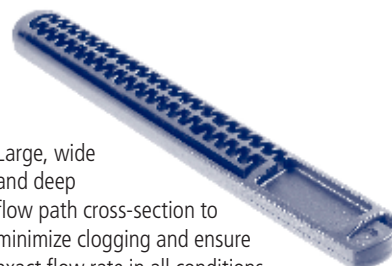
Internal emitter protected from mechanical damage

Tiran facets

Injected molded dripper construction ensuring uniform drippers and very low CV



Large filtration area to ensure optimal performance even under harsh water conditions



Large, wide and deep flow path cross-section to minimize clogging and ensure exact flow rate in all conditions



THICK WALL DRIPPERLINES

Tiran 23009 • I.D. Ø 20.80 • Inlet pressure 1.4 bar • Nominal flow rate 1.00 l/h

Max. lateral length (m) at 10% flow variation / spacing between drippers (m)

Slope %		0.20	0.25	0.30	0.40	0.45	0.50	0.60	0.75	0.90	1.00
uphill	-2	116	126	134	144	148	151	155	159	161	163
	-1	144	163	179	205	216	225	241	260	273	280
	0	177	209	238	291	315	339	384	446	503	540
	1	204	245	284	357	392	427	493	589	680	739
downhill	2	223	270	316	402	443	478	477	313	268	256

Tiran 23009 • I.D. Ø 20.80 • Inlet pressure 1.4 bar • Nominal flow rate 1.50 l/h

Max. lateral length (m) at 10% flow variation / spacing between drippers (m)

Slope %		0.20	0.25	0.30	0.40	0.45	0.50	0.60	0.75	0.90	1.00
uphill	-2	99	110	118	130	135	139	145	151	155	157
	-1	117	134	148	172	182	192	208	227	243	251
	0	137	161	184	225	244	262	296	344	389	417
	1	153	183	212	266	292	317	365	435	501	545
downhill	2	166	200	233	296	326	356	413	482	476	447

Tiran 23009 • I.D. Ø 20.80 • Inlet pressure 1.4 bar • Nominal flow rate 2.0 l/h

Max. lateral length (m) at 10% flow variation / spacing between drippers (m)

Slope %		0.20	0.25	0.30	0.40	0.45	0.50	0.60	0.75	0.90	1.00
uphill	-2	87	97	106	119	124	129	136	143	149	151
	-1	100	115	128	150	159	169	184	203	219	228
	0	114	134	153	187	203	218	247	287	323	347
	1	125	150	173	216	237	257	296	352	405	439
downhill	2	134	162	188	238	262	286	332	397	460	483

Tiran 23009 • I.D. Ø 20.80 • Inlet pressure 1.4 bar • Nominal flow rate 4.0 l/h



Max. lateral length (m) at 10% flow variation / spacing between drippers (m)

Slope %		0.20	0.25	0.30	0.40	0.45	0.50	0.60	0.75	0.90	1.00
uphill	-2	61	70	77	90	95	100	108	118	125	129
	-1	67	78	87	104	112	119	131	148	162	171
	0	73	86	98	120	130	140	158	184	207	222
	1	77	92	106	132	144	157	179	212	244	264
downhill	2	82	98	113	143	157	170	197	234	270	294

Tiran 23009 • I.D. Ø 20.80 • Inlet pressure 1.4 bar • Nominal flow rate 8.0 l/h

Max. lateral length (m) at 10% flow variation / spacing between drippers (m)

Slope %		0.20	0.25	0.30	0.40	0.45	0.50	0.60	0.75	0.90	1.00
uphill	-2	42	48	54	64	68	73	80	89	96	101
	-1	44	51	58	70	75	81	90	103	113	120
	0	46	55	62	76	83	89	101	118	132	142
	1	48	58	66	82	90	97	110	130	149	160
downhill	2	50	60	69	86	95	103	118	140	161	175

Tiran	Wall thickness	Distance between drippers	 Coil length	 Average coil weight*	Coils in a 40 feet container	Total in a 40 feet container
	(mm)	(m)	(m)	(kg)	(units)	(m)
23009	0.90	0.20 to 1.00	300	19 to 18	480	144000

* According to drippers spacing