

# CONSTANTS - PLASTRO EMITTERS

EMITTER TYPE	COLOR CODE	NOMINAL FLOW RATE * (LPH)	Q=AxH^B **		% DH ***	FLOW RATE (LPH) AT PRESSURE				
			A	B		10 m	15 m	20 m	25 m	30 m
"TORNADO"  ray-jet	Black	25	6.5060	0.5050	20.7	20.8	25.5	29.5	33.1	36.2
	Blue	34	7.4170	0.5610	18.5	27.0	33.9	39.8	45.1	50.0
	Green	55	14.4080	0.4990	21.0	45.5	55.7	64.2	71.8	78.6
	Red	70	22.7390	0.4170	25.6	59.4	70.3	79.3	87.0	93.9
"TORNADO"  mini - Sprinkler	Black	33	8.6000	0.4580	23.1	24.7	29.7	33.9	37.6	40.8
	Blue	43	11.0270	0.4560	23.2	31.5	37.9	43.2	47.9	52.0
	Green	75	20.3040	0.4420	24.0	56.2	67.2	76.3	84.2	91.3
	Red	100	21.1990	0.5170	20.2	69.7	86.0	99.8	112.0	123.0
"TORNADO"  Mist Sprayer	Black	22	3.6540	0.5240	20.0	12.2	15.1	17.6	19.7	21.7
	Blue	27	4.7600	0.5040	20.8	15.2	18.7	20.2	22.6	24.8
	Green	38	6.4770	0.5210	20.0	21.5	26.6	30.8	34.6	38.1
	Red	45	8.9130	0.4770	22.1	26.7	32.4	37.2	41.4	45.1
"TORNADO"  Online Dripper	Black	16	6.3360	0.3946	27.3	15.7	18.5	20.7	22.6	24.3
	Blue	18	7.5135	0.3770	28.7	17.9	20.9	23.2	25.3	27.1
	Green	25	10.1941	0.3821	28.3	24.6	28.7	32.0	34.9	37.4
	Red	29	12.3103	0.3738	29.1	29.1	33.9	37.7	41.0	43.9
"RONDO"  Mini Sprinkler	Black	40	11.4600	0.4132	25.9	29.7	35.1	39.5	43.3	46.7
	Blue	50	12.7864	0.4587	23.0	36.8	44.3	50.5	56.0	60.9
	Green	75	15.7554	0.5157	20.0	51.7	63.7	73.9	82.9	91.0
	Red	100	24.2567	0.4845	21.7	74.0	90.1	103.6	115.4	126.0
	White	135	30.0681	0.4984	21.0	94.7	116.0	133.8	149.6	163.8
	Violet	175	35.6470	0.5290	19.7	120.5	149.3	173.9	195.7	215.5
	Yellow	215	49.9256	0.4847	21.7	152.4	185.5	213.3	237.6	259.6
	Brown	260	58.6624	0.4972	21.0	184.3	225.5	260.2	290.7	318.3
Orange	300	57.1814	0.5578	18.6	206.6	259.0	304.1	344.4	381.2	
"RONDO XL"  midi sprinkler	White	135	30.8589	0.4918	21.5	94.0	117.0	134.0	150.0	165.0
	Violet	170	41.202	0.477	22.2	122.0	149.0	171.0	191.0	209.0
	Yellow	210	50.1694	0.4807	21.9	150.0	183.0	212.0	235.0	258.0
	Brown	260	63.5234	0.4712	22.4	185.0	225.0	259.0	290.0	315.0
	Orange	305	73.3716	0.4768	22.1	217.0	265.0	305.0	341.0	373.0
	Gray	367	82.5585	0.4977	21.5	259.0	317.0	367.0	410.0	449.0

\* COEF. FLOW FUNCIO

\*\* Q= LPH H=m

\*\*\* %DH - MAXIMUM ALLOWABLE HEAD LOSS DIFFERENCE (AS PERCENTAGE OF WORKING HEAD)

WITHIN AN IRRIGATION PLOT IN ORDER TO KEEP FLOW RATE DIFFERENCES ≤ 10%

# TECHNICAL DATA FOR PLASTRO EMITTERS

## INTEGRAL DRIPLINE

### **HYDRODRIP II**

EMITTER TYPE	FLOW (l/h)	DIA.		DRIP.		DH=7.5%		DH=10%		WCADI	Min.	Color
		NOM mm	INT. mm	COEF	EXP.	Pmin (m)	Pmax (m)	Pmin (m)	Pmax (m)	CAT.	Pressure (m)	
12-/26/40	2.1	12	10.4	0.6442	0.506	9.25	10.75	9	11	26611017		green
	2.9											
	3.6											
16/18	1.6	16	15.2	0.5300	0.4830	9.19	10.81	8.91	11.09	26611816		green
	2.2	16	15.2	0.7260	0.4840	9.19	10.81	8.91	11.09	26611822		yellow
	3.6	16	15.2	1.1940	0.4792	9.19	10.81	8.90	11.10	26611836		white
16-/25/35 -40/45	1.7	16	15.2	0.5212	0.5090	9.24	10.76	8.97	11.03	26611018		green
	2.3	16	15.2	0.7646	0.4704	9.17	10.83	8.88	11.12	26611023		yellow
	3.6	16	15.2	1.1940	0.4792	9.19	10.81	8.90	11.10	26611036		white
20-/24/36/44	1.7	20	17.6	0.5212	0.5090	9.24	10.76	8.97	11.03	26611018		green
	2.3	20	17.6	0.7646	0.4704	9.17	10.83	8.88	11.12	26611023		yellow
	3.6	20	17.6	1.1940	0.4792	9.19	10.81	8.90	11.10	26611036		white
25-/17/34	1.7	25	22.2	0.5212	0.5090	9.24	10.76	8.97	11.03	26611018		green
	2.3	25	22.2	0.7646	0.4704	9.17	10.83	8.88	11.12	26611023		yellow
	3.6	25	22.2	1.1940	0.4792	9.19	10.81	8.90	11.10	26611036		white

### **HYDRO P.C. and HYDRO P.C. N.D.**

EMITTER TYPE	FLOW (l/h)	DIA.		DRIP.		DH=7.5%		DH=10%		WCADI	Min.	Color
		NOM mm	INT. mm	COEF	EXP.	Pmin (m)	Pmax (m)	Pmin (m)	Pmax (m)	CAT.	Pressure (m)	
16-/35/40/45	# 1.2									26621612		
	# 1.6									26621616		
	# 2.2									26621622		
17-/35/40/45	1.6	17.8	15.3	1.6	0					26621716	7.5	violet
	2.2	17.8	15.3	2.25	0					26621722	7.5	yellow
	3.0	17.8	15.3	3.1	0					26621703	7.5	red
	3.6	17.8	15.3	3.6	0					26621736	7.5	white
20-/35/40/45	1.6	20	17.6	1.60	0.00					26622016	5	violet
	* 2.2	20	17.6	2.25	0.00					26622022	7.5	yellow
	# 3	20	17.6							26622003	7.5	red
	* 3.6	20	17.6	3.60	0.00					26622036	7.5	white

\* regular and no drain

## HYDROGOL.

EMITTER TYPE	FLOW (l/h)	DIA.	DIA.	DRIP.	DRIP.	DH=7.5%		DH=10%		WCADI	Min.	Color
		NOM mm	INT. Mm	COEF	EXP.	Pmin (m)	Pmax (m)	Pmin (m)	Pmax (m)	CAT.	Press- ure (m)	
12/25/1	1.0	12	10.4	0.3270	0.4733	9.17	10.83	8.88	11.12	26122501		pink
12/25/2	2.2	12	10.4	0.7426	0.4705	9.17	10.83	8.88	11.12	26122502		green
12/25/3	3.0	12	10.4	1.0593	0.4540	9.14	10.86	8.83	11.17	26122503		red
12/35/2	# 2.2									26123502		green
12/35/3	# 3.0									26123503		red
12/40/2	# 2.1									26124002		green
12/40/3	# 2.9									26124003		red
16/25/2	2.2	16	13.8	0.7616	0.4621	9.15	10.85	8.85	11.15			green
16/25/4	# 4.1											white
16/35/1.6	1.8	16	13.8	0.5770	0.4900	9.20	10.80	8.93	11.07			violet
16/35/2	2.2	16	13.8	0.6920	0.5020	9.23	10.77	8.95	11.05			green
16/35/4	4.1	16	13.8	1.2748	0.5077	9.23	10.77	8.97	11.03	26163504		white
16/35/10	10.7	16	13.8	3.3483	0.5047	9.23	10.77	8.96	11.04	26163510		blue
16/40/1.6	1.6	16	13.8	0.5318	0.4797	9.19	10.81	8.90	11.10	26164016		violet
16/40/2	2.1	16	13.8	0.6749	0.4850	9.20	10.80	8.91	11.09	26164002		green
16/40/4	3.9	16	13.8	1.3071	0.4766	9.18	10.82	8.89	11.11	26164004		white
16/40/10	10.5	16	13.8	3.2938	0.5010	9.22	10.78	8.95	11.05	26164010		blue
16/45/1.6	1.5	16	13.8	0.4889	0.4920	9.21	10.79	8.93	11.07	26164516		violet
16/45/2	2.0	16	13.8	0.7119	0.4510	9.13	10.87	8.82	11.18	26164502		green
16/45/4	3.8	16	13.8	1.3089	0.4605	9.15	10.85	8.85	11.15	26164504		white
16/45/10	9.5	16	13.8	2.9919	0.5011	9.22	10.78	8.95	11.05	26164510		blue
20/35/2	2.3	20	17.6	0.6970	0.5180	9.25	10.75	8.99	11.01	26203502		green
20/35/2.5	2.8	20	17.6	0.8430	0.5110	9.24	10.76	8.97	11.03	26203525		yellow
20/35/3	3.2	20	17.6	1.0211	0.5000	9.22	10.78	8.95	11.05	26203503		red
20/35/4	4.7	20	17.6	1.4900	0.4983	9.22	10.78	8.95	11.05	26203504		white
20/40/2	2.2	20	17.6	0.6715	0.5220	9.26	10.74	9.00	11.00	26204002		green
20/40/2.5	2.6	20	17.6	0.7790	0.5180	9.25	10.75	8.99	11.01	26204025		yellow
20/40/3	3.1	20	17.6	0.9790	0.5000	9.22	10.78	8.95	11.05	26204003		red
20/40/4	4.5	20	17.6	1.3120	0.5290	9.27	10.73	9.01	10.99	26204004		white
20/45/2	2.2	20	17.6	0.7031	0.486	9.20	10.80	8.92	11.08	26204502		green
20/45/2.5	# 2.5									26204525		yellow
20/45/3	3.0	20	17.6	0.9797	0.488	9.20	10.80	8.92	11.08	26204503		red
20/45/4	# 4.4									26204504		white

# NOT YET AVAILABLE (The data is not final)

EMITTER TYPE	COLOR CODE	NOMINAL FLOW RATE * (LPH)	Q=AxH^B **		% DH ***	FLOW RATE (LPH) AT PRESSURE				
			A	B		10 m	15 m	20 m	25 m	30 m
"TORNADO"  online dripper	Black	16	6.3360	0.3946	27.3	15.7	18.5	20.7	22.6	24.3
	Blue	18	7.5135	0.3770	28.7	17.9	20.9	23.2	25.3	27.1
	Green	25	10.1941	0.3821	28.3	24.6	28.7	32.0	34.9	37.4
	Red	29	12.3103	0.3738	29.1	29.1	33.9	37.7	41.0	43.9
"TUFTTIF"  online dripper	Black	2	0.6150	0.5390	19.3	2.1	2.6	3.1	3.5	3.8
	Black	4	1.3643	0.4780	22.0	4.1	5.0	5.7	6.4	6.9
	Green	8	2.7257	0.4650	22.7	8.0	9.6	11.0	12.2	13.3
	Red	11	4.3329	0.4146	25.8	11.3	13.3	15.0	16.5	17.8