

UPDATED 8/5/09

TECHNICAL DATA FOR PLASTRO EMITTERS

Update: 1/1/02

INTEGRAL DRIPLINE

	FLOW	DIA. NOM.	DIA. INT.	DRIP. COEF.	DRIP EXP.	KD	DH=7.5%		DH=10%		WCADI CAT.	Min. Pressure	Max. Pressure	% FLOW TO BE	color
							Pmin	Pmax	Pmin	Pmax					
														ADDED	
HYDRO P.C.															
16-/35/40/45	1.20	16	13.8	1.2	0	0.85					26621612	6.0		5.0%	
	1.60	16	13.8	1.6	0	0.85					26621616	7.5		5.0%	
	2.20	16	13.8	2.2	0	0.85					26621622	7.5		5.0%	
	3.00	16	13.8	3.0	0	0.85					26621630	7.5		5.0%	
	3.60	16	13.8	3.6	0	0.85					26621636	7.5		5.0%	
17-/35/40/45	1.20	17.8	15.3	1.2	0	0.6					26621712	6.0		5.0%	
	1.60	17.8	15.3	1.6	0	0.6					26621716	7.5		5.0%	
	2.20	17.8	15.3	2.2	0	0.6					26621722	7.5		5.0%	
	3.00	17.8	15.3	3.0	0	0.6					26621703	7.5		5.0%	
	3.60	17.8	15.3	3.6	0	0.6					26621736	7.5		5.0%	
20-/35/40/45	1.20	20	17.6	1.2	0	0.45					26622012	7.5		5.0%	
	1.60	20	17.6	1.6	0	0.45					26622016	7.5		5.0%	
	2.20	20	17.6	2.3	0	0.45					26622022	7.5		5.0%	
	3.00	20	17.6	3.0	0	0.45					26622003	7.5		5.0%	
	3.60	20	17.6	3.4	0	0.45					26622036	7.5		5.0%	
HYDRO P.C. N.D.															
16-/35/40/45	1.35	16	13.8	1.35	0	0.85					26631612	6		5.0%	
	1.75	16	13.8	1.75	0	0.85					26631616	7.5		5.0%	
	2.35	16	13.8	2.35	0	0.85					26631622	7.5		5.0%	
	3.75	16	13.8	3.75	0	0.85					26631636	7.5		5.0%	
17-/35/40/45	1.35	17.8	15.3	1.35	0	0.6					26631712	6.0		5.0%	
	1.75	17.8	15.3	1.75	0	0.6					26631716	7.5		5.0%	
	2.35	17.8	15.3	2.35	0	0.6					26631722	7.5		5.0%	
	3.15	17.8	15.3	3.15	0	0.6					26631703	7.5		5.0%	
	3.75	17.8	15.3	3.75	0	0.6					26631736	7.5		5.0%	
20-/35/40/45	1.35	20	17.6	1.35	0	0.450					26632012	7.5		5.0%	
	1.75	20	17.6	1.75	0	0.450					26632016	7.5		5.0%	
	2.35	20	17.6	2.35	0	0.450					26632022	7.5		5.0%	
	3.15	20	17.6	3.15	0	0.45					26632003	7.5		5.0%	
	3.60	20	17.6	3.60	0	0.450					26632036	7.5		5.0%	
	regular and no drain			kd equation { .0267d^2-0.9436d+8.7868 }											

UPDATED 8/5/09

	FLOW	DIA. NOM.	DIA. INT.	DRIP. COEF.	DRIP EXP.	KD	DH=7.5%		DH=10%		WCADI CAT.	Min. Pressure	Max. Pressure	% FLOW TO BE ADDED	color
							Pmin	Pmax	Pmin	Pmax					
HYDRODRIPIII															
16/18/1.8	1.74	16	15.2	0.5653	0.4888	0.150	9.2	10.8	8.9	11.1	27161818		15		Green
16/25/1.8	1.83	16	15.2	0.5701	0.5078	0.150	9.2	10.8	9.0	11.0	27162518		25		Green
16/35/1.8	1.88	16	15.2	0.5951	0.4998	0.150	9.2	10.8	8.9	11.1	27163518		30		Green
16/45/1.8	1.88	16	15.2	0.5951	0.4998	0.150	9.2	10.8	8.9	11.1	27164518		35		Green
16/18/2	1.96	16	15.2	0.6275	0.4942	0.150	9.2	10.8	8.9	11.1	27161820		15		Green
16/25/2	2.04	16	15.2	0.6381	0.5057	0.150	9.2	10.8	9.0	11.0	27162520		25		Green
16/35/2	2.08	16	15.2	0.6638	0.4980	0.150	9.2	10.8	8.9	11.1	27163520		30		Green
16/45/2	2.08	16	15.2	0.6638	0.4980	0.150	9.2	10.8	8.9	11.1	27164520		35		Green
16/18/2.3	2.33	16	15.2	0.7620	0.4867	0.150	9.2	10.8	8.9	11.1	27161823		15		Yellow
16/25/2.3	2.42	16	15.2	0.7747	0.4970	0.150	9.2	10.8	8.9	11.1	27162520		25		Yellow
16/35/2.3	2.59	16	15.2	0.8228	0.4993	0.150	9.2	10.8	8.9	11.1	27163520		30		Yellow
16/45/2.3	2.59	16	15.2	0.8228	0.4993	0.150	9.2	10.8	8.9	11.1	27164520		35		Yellow
16/18/3.6	3.67	16	15.2	1.2155	0.4809	0.150	9.2	10.8	8.9	11.1	27161836		15		White
16/25/3.6	3.75	16	15.2	1.1972	0.4956	0.150	9.2	10.8	8.9	11.1	27163536		25		White
16/35/3.6	3.82	16	15.2	1.2543	0.4858	0.150	9.2	10.8	8.9	11.1	27163536		30		White
16/45/3.6	3.82	16	15.2	1.2543	0.4858	0.150	9.2	10.8	8.9	11.1	27164536		35		White
20/18/1.8	1.72	20	17.6	0.5415	0.4993	0.100	9.2	10.8	8.9	11.1	27201818		15		Green
20/25/1.8	1.96	20	17.6	0.5889	0.5221	0.100	9.3	10.7	9.0	11.0	27202518		25		Green
20/35/1.8	1.93	20	17.6	0.5850	0.5191	0.100	9.3	10.7	9.0	11.0	27203518		30		Green
20/45/1.8	1.93	20	17.6	0.5850	0.5191	0.100	9.3	10.7	9.0	11.0	27204518		35		Green
20/18/2	1.94	20	17.6	0.6174	0.4952	0.100	9.2	10.8	8.9	11.1	27201820		15		Green
20/25/2	2.16	20	17.6	0.6653	0.5114	0.100	9.2	10.8	9.0	11.0	27202520		25		Green
20/35/2	2.13	20	17.6	0.6640	0.5044	0.100	9.2	10.8	9.0	11.0	27203520		30		Green
20/45/2	2.13	20	17.6	0.6640	0.5044	0.100	9.2	10.8	9.0	11.0	27204520		35		Green
20/18/2.3	2.31	20	17.6	0.7708	0.4787	0.100	9.2	10.8	8.9	11.1	27201823		15		Yellow
20/25/2.3	2.7	20	17.6	0.7797	0.5280	0.100	9.3	10.7	9.0	11.0	27202523		25		Yellow
20/35/2.3	2.66	20	17.6	0.8119	0.5140	0.100	9.2	10.8	9.0	11.0	27203523		30		Yellow
20/45/2.3	2.66	20	17.6	0.8119	0.5140	0.100	9.2	10.8	9.0	11.0	27204523		35		Yellow
20/18/3.6	3.6	20	17.6	1.1546	0.4929	0.100	9.2	10.8	8.9	11.1	27201836		15		White
20/25/3.6	3.98	20	17.6	1.2074	0.5187	0.100	9.3	10.7	9.0	11.0	27202536		25		White
20/35/3.6	4.07	20	17.6	1.2363	0.5168	0.100	9.2	10.8	9.0	11.0	27203536		30		White
20/45/3.6	4.07	20	17.6	1.2363	0.5168	0.100	9.2	10.8	9.0	11.0	27204536		35		White
25/18/1.8	1.74	25	22.2	0.5653	0.4888	0.075	9.2	10.8	8.9	11.1	27251818		12		Green
25/35/1.8	1.77	25	22.2	0.5330	0.5219	0.075	9.3	10.7	9.0	11.0	27253518		25		Green
25/18/2	1.96	25	22.2	0.6275	0.4942	0.075	9.2	10.8	8.9	11.1	27251820		12		Green
25/35/2	1.84	25	22.2	0.5797	0.4993	0.075	9.2	10.8	8.9	11.1	27253520		25		Green
25/18/2.3	2.33	25	22.2	0.7620	0.4867	0.075	9.2	10.8	8.9	11.1	27251823		12		Yellow
25/35/2.3	2.35	25	22.2	0.7388	0.5033	0.075	9.2	10.8	9.0	11.0	27253523		25		Yellow
25/18/3.6	3.67	25	22.2	1.2155	0.4809	0.075	9.2	10.8	8.9	11.1	27251836		12		White
25/35/3.6	3.53	25	22.2	1.0972	0.5064	0.075	9.2	10.8	9.0	11.0	27253536		25		White
kd equation (0.004d ² -0.1628d+1.7051)															
HYDRO LITE															
16/0.6	0.52	16/8	16.0	0.1580	0.5200	0.065	9.3	10.7	9.0	11.0	26640006		12		
16/1	0.85	16/8	16.0	0.2634	0.5050	0.065	9.2	10.8	9.0	11.0	26640010		12		

UPDATED 8/5/09

	FLOW	DIA.	DIA.	DRIP.	DRIP.	KD	DH=7.5%		DH=10%		WCADI	Min.			color	
		NOM.	INT.	COEF.	EXP.		Pmin	Pmax	Pmin	Pmax	CAT.	Pressure				
HYDROGOL																
12/25/1	1.0	12	10.4	0.3297	0.4728	0.850	9.2	10.8	8.9	11.1	26122501					grey
12/25/2	2.2	12	10.4	0.7430	0.4711	0.850	9.2	10.8	8.9	11.1	26122502					green
12/25/3	3.0	12	10.4	1.0504	0.4581	0.850	9.1	10.9	8.8	11.2	26122503					red
12/35/1	0.9	12	10.4	0.3016	0.4909	0.850	9.2	10.8	8.9	11.1	26123501					grey
12/35/2	2.2	12	10.4	0.7134	0.4799	0.850	9.2	10.8	8.9	11.1	26123502					green
12/35/3	2.9	12	10.4	0.9550	0.4862	0.850	9.2	10.8	8.9	11.1	26123503					red
12/40/1	0.9	12	10.4	0.2830	0.5020	0.850	9.2	10.8	9.0	11.0	26124001					grey
12/40/2	2.1	12	10.4	0.6680	0.4910	0.850	9.2	10.8	8.9	11.1	26124002					green
12/40/3	2.8	12	10.4	0.9190	0.4880	0.850	9.2	10.8	8.9	11.1	26124003					red
16/25/1	1.2	16	13.8	0.3936	0.4911	0.450	9.2	10.8	8.9	11.1	26162501					grey
16/25/1.6	1.9	16	13.8	0.6382	0.4737	0.450	9.2	10.8	8.9	11.1	26162516					violet
16/25/2	2.2	16	13.8	0.7181	0.4944	0.450	9.2	10.8	8.9	11.1	26162502					green
16/25/4	4.4	16	13.8	1.4289	0.4880	0.450	9.2	10.8	8.9	11.1	26162504					white
16/35/1	1.1	16	13.8	0.3511	0.4824	0.450	9.2	10.8	8.9	11.1	26163501					grey
16/35/1.6	1.8	16	13.8	0.5696	0.4944	0.450	9.2	10.8	8.9	11.1	26163516					violet
16/35/2	2.2	16	13.8	0.6782	0.5098	0.450	9.2	10.8	9.0	11.0	26163502					green
16/35/4	4.1	16	13.8	1.2990	0.4990	0.450	9.2	10.8	8.9	11.1	26163504					white
16/35/10	10.7	16	13.8	3.3238	0.5080	0.450	9.2	10.8	9.0	11.0	26163510					blue
16/40/1	1.0	16	13.8	0.3296	0.4841	0.450	9.2	10.8	8.9	11.1	26164001					grey
16/40/1.6	1.6	16	13.8	0.5199	0.4890	0.450	9.2	10.8	8.9	11.1	26164016					violet
16/40/2	2.1	16	13.8	0.6725	0.4864	0.450	9.2	10.8	8.9	11.1	26164002					green
16/40/4	3.9	16	13.8	1.2821	0.4840	0.450	9.2	10.8	8.9	11.1	26164004					white
16/40/10	10.5	16	13.8	3.3567	0.4929	0.450	9.2	10.8	8.9	11.1	26164010					blue
16/45/1	1.0	16	13.8	0.3180	0.4920	0.450	9.2	10.8	8.9	11.1	26164501					grey
16/45/1.6	1.5	16	13.8	0.4982	0.4838	0.450	9.2	10.8	8.9	11.1	26164516					violet
16/45/2	2.0	16	13.8	0.6950	0.4611	0.450	9.2	10.8	8.9	11.1	26164502					green
16/45/4	3.8	16	13.8	1.3040	0.4623	0.450	9.2	10.8	8.9	11.1	26164504					white
16/45/10	9.5	16	13.8	2.9723	0.5040	0.450	9.2	10.8	9.0	11.0	26164510					blue
20/35/2	2.3	20	17.6	0.7039	0.5142	0.250	9.2	10.8	9.0	11.0	26203502					green
20/35/2.5	2.8	20	17.6	0.8475	0.5097	0.250	9.2	10.8	9.0	11.0	26203525					yellow
20/35/3	3.2	20	17.6	1.0266	0.4979	0.250	9.2	10.8	8.9	11.1	26203503					red
20/35/4	4.7	20	17.6	1.4760	0.5028	0.250	9.2	10.8	9.0	11.0	26203504					white
20/40/2	2.2	20	17.6	0.6881	0.5118	0.250	9.2	10.8	9.0	11.0	26204002					green
20/40/2.5	2.6	20	17.6	0.7972	0.5093	0.250	9.2	10.8	9.0	11.0	26204025					yellow
20/40/3	3.1	20	17.6	0.9938	0.4950	0.250	9.2	10.8	8.9	11.1	26204003					red
20/40/4	4.5	20	17.6	1.3492	0.5175	0.250	9.3	10.7	9.0	11.0	26204004					white
20/40/8	8										26204008					blue
20/45/2	2.2	20	17.6	0.6953	0.4906	0.250	9.2	10.8	8.9	11.1	26204502					green
20/45/2.5	2.5										26204525					yellow
20/45/3	3.0	20	17.6	0.9718	0.4911	0.250	9.2	10.8	8.9	11.1	26204503					red
20/45/4	4.4										26204504					white

kd equation 197.7*d^-2.3241
 NOT YET AVAILABLE (The data is not final)

UPDATED 8/5/09

ON LINE DRIPPERS

	FLOW	DRIP. COEF.	DRIP EXP.	DH=7.5%		DH=10%		WCADI CAT.	Nominal Pressure	color
				Pmin	Pmax	Pmin	Pmax			
Min. Pressure										
SUPERTIF										
2	2.2		2.2	0				32400002	6	
4	3.85		3.85	0				32400004	6	
8	7.8		7.8	0				32400008	6	
12	12		12	0				32400012	6	

kd equation 25.08*2.72^(-.2817*id)

SUPERTIF N.D.										
2	2.2		2.2	0				32430002	6	
4	3.85		3.85	0				32430004	6	
8	7.8		7.8	0				32430008	6	
12	12		12	0				32430012	6	

SUPERTIF N.D.H										
3	3.1		3.1	0				32450002	9	
5	5.1		5.1	0				32450005	9	
8	8		8	0				32450008	9	
12	11		11	0				32450012	9	

TUFFTIF											
2	2.1		0.615	0.539	9.3	10.7	9.0	11.0	32100002	10	brown
4	4.1		1.364	0.478	9.2	10.8	8.9	11.1	32100004	10	black
8	8.0		2.726	0.465	9.2	10.8	8.9	11.1	32100008	10	green
12	11.3		4.333	0.415	9.0	11.0	8.7	11.3	32100012	10	red

kd equation 25.08*2.72^(-.2817*id)

O-TIF											
2	2		0.634	0.484	9.2	10.8	8.9	11.1	32400002	10	brown
4	4		1.394	0.460	9.1	10.9	8.8	11.2	32400004	10	black
8	7.7		2.530	0.480	9.2	10.8	8.9	11.1	32400008	10	green
16	16.7		5.100	0.514	9.2	10.8	9.0	11.0	32400016	10	violet

kd equation 25.08*2.72^(-.2817*id)

TORNADO DRIPPER											
16	15.7		6.336	0.395	9.0	11.0	8.6	11.4	34200202	10	black
18	17.9		7.514	0.377	8.9	11.1	8.6	11.4	34200204	10	blue
25	24.6		10.194	0.382	9.0	11.0	8.6	11.4	34200207	10	green
29	29.1		12.310	0.374	8.9	11.1	8.5	11.5	34200209	10	red

kd equation 363.6*id^(-2.3)

UPDATED 8/5/09

STATIC MINI SPRAYERS

	FLOW	DRIP. COEF.	DRIP EXP.	DH=7.5%		DH=10%		WCADI CAT.	Nominal Pressure	color
				Pmin	Pmax	Pmin	Pmax			

TORNADO RAY JET

BLACK .9	30	6.506	0.505	18.5	21.5	17.9	22.1		20
BLUE 1.3	40	7.417	0.561	18.6	21.4	18.1	21.9		20
GREEN 1.7	65	14.408	0.499	18.4	21.6	17.9	22.1		20
RED 2.0	80	22.739	0.417	18.1	21.9	17.4	22.6		20

JET+

L. BLUE (0.6)	30	6.26	0.5209	18.5	21.5	18.0	22.0		20
BLACK 0.8	40	11.16	0.4132	18.1	21.9	17.4	22.6		20
BLUE 1.0	51	12.786	0.458	18.3	21.7	17.7	22.3		20
DARK BLUE 1.1	63	14.347	0.492	18.4	21.6	17.9	22.1		20
GREEN 1.2	74	15.755	0.5157	18.5	21.5	18.0	22.0		20
RED 1.4	104	24.256	0.4845	18.4	21.6	17.8	22.2		20

J.L.F JET LOW FLOW

JLF	12.5	3.685	0.464	13.7	16.3	13.3	16.7		15
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J.F.R

COLOR (mm)										
BLACK (0.8)	20	20	0						36400020	15
BLUE (1.0)	30	30	0						36400030	15
DARK BL.(1.1)	41	41	0						36400041	15
GREEN (1.2)	53	53	0						36500053	15
RED (1.4)	70	70	0						36500070	15
WHITE (1.6)	95	95	0						36500095	15

MIST SPRAYERS

TORNADO

BLACK	22	3.645	0.524	27.8	32.2	27.0	33.0		30
BLUE	25	4.766	0.504	27.7	32.3	26.9	33.1		30
GREEN	38	6.477	0.521	27.8	32.2	27.0	33.0		30
RED	45	8.913	0.477	27.5	32.5	26.7	33.3		30

RONDO

	47	11.18	0.4132	27.1	32.9	26.1	33.9		30
	61	12.786	0.4587	27.4	32.6	26.5	33.5		30
	91	15.7554	0.5157	27.7	32.3	27.0	33.0		30

FLF

4x5/h	20	5.316	0.393	27.0	33.0	25.9	34.1		30
4x10/h	40	10.632	0.393	27.0	33.0	25.9	34.1		30

UPDATED 8/5/09

MINI SPRINKLERS

TORNADO											
BLACK .9	34		8.6	0.458		18.3	21.7	17.7	22.3		20
BLUE 1.3	43		11.027	0.456		18.3	21.7	17.7	22.3		20
GREEN 1.7	76		20.304	0.442		18.2	21.8	17.6	22.4		20
RED 2.0	100		21.2	0.517		18.5	21.5	18.0	22.0		20
WHITE 2.2	115		26.017	0.495		18.4	21.6	17.9	22.1		20

RONDO MINI SPRINKLER AND ULTRA TYPE

COLOR (mm)												
L. BLUE (0.6)	30		6.024	0.5317		18.5	21.5	18.0	22.0	36500030	20	ULTRA
BLACK (0.8)	39		7.952	0.5281		18.5	21.5	18.0	22.0	36500039	20	MINI SPRIN. AND ULTRA
BLUE (1.0)	51		10.453	0.5286		18.5	21.5	18.0	22.0	36500051	20	MINI SPRIN. AND ULTRA
DARK BL.(1.1)	64		14.21	0.5024		18.5	21.5	17.9	22.1	36500064	20	MINI SPRIN. AND ULTRA
GREEN (1.2)	75		15.985	0.5145		18.5	21.5	18.0	22.0	36500075	20	MINI SPRIN. AND ULTRA
RED (1.4)	102		22.038	0.5108		18.5	21.5	17.9	22.1	36500102	20	MINI SPRIN. AND ULTRA
WHITE (1.6)	132		28.572	0.5112		18.5	21.5	18.0	22.0	36500132	20	MINI SPRIN. AND ULTRA
VIOLET (1.8)	173.9		39.191	0.4982		18.4	21.6	17.9	22.1	36500174	20	MINI SPRIN. AND ULTRA
YELLOW (2.0)	206		43.436	0.524		18.5	21.5	18.0	22.0	36500206	20	MINI SPRIN. AND ULTRA
BROWN (2.2)	254		56.196	0.5039		18.5	21.5	17.9	22.1	36000254	20	MINI SPRINKLER
ORANGE (2.4)	298		65.505	0.5056		18.5	21.5	17.9	22.1	36000298	20	MINI SPRINKLER

RFR

COLOR (mm)												
BLACK (0.8)	20		20	0						36400020	15	
BLUE (1.0)	30		30	0						36400030	15	
DARK BL.(1.1)	41		41	0						36400041	15	
GREEN (1.2)	53		53	0						36500053	15	
RED (1.4)	70		70	0						36500070	15	
WHITE (1.6)	95		95	0						36500095	15	

RONDO XL

COLOR (mm)												
WHITE (1.6)	134		30.8589	0.4918		18.4	21.6	17.9	22.1	37000135	20	
VIOLET (1.8)	171		41.202	0.477		18.4	21.6	17.8	22.2	37000170	20	
YELLOW(2.0)	212		50.1894	0.4807		18.4	21.6	17.8	22.2	37000210	20	
BROWN (2.2)	259		63.5234	0.4712		18.3	21.7	17.8	22.2	37000260	20	
ORANGE(2.4)	305		73.3716	0.4768		18.4	21.6	17.8	22.2	37000305	20	
GREY (2.6)	367		82.5585	0.4977		18.4	21.6	17.9	22.1	37000367	20	