



Senninger Irrigation
Clermont, FL
EEUU

Dealer : Tecno Riego
Juan J Paso 380

Customer : El Rincon
Equipo 22

Printout No: TR-5673-Senn



** Specify Senninger UP3 Nozzles when ordering **

Senninger Irrigation Inc

16220 E Hwy 50

Clermont. FL

Tecno Riego sa

Juan Jose Paso 380

Va Dolores Cba Argentina

Tel : +5403544426446

E-mail:tecnoriego.valley@gmail.com

Date: 16/03/2013

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Dealer:

Customer:

Comments:

Tecno Riego
Juan J Paso 380
5870
Villa Dolores
Cordoba
www.thirrigacion.com.ar

El Rincon
Equipo 22

Machine

Mfg: Valley
Flow: 500.00 m³/h
Pivot Pressure: 53.82 psi
Base Press: 58.38 psi
End Pressure: 16.00 psi
Spacing: Span dependent
Length: 808.13 m
m³h / Hect: 2.43 m³/h
Average Drop: 3.0 m
End Gun: No

Pipes

C Factor: 140
Pipe 1: 673.2 m, 213.36 mm ID
Pipe 2: 109.8 m, 162.81 mm ID
Pipe 3: 25.1 m, 152.40 mm ID

Elevation

Difference above(+) pivot 2.00
Difference below(-) pivot 3.00
Elevation Rise included in calculations

Sprinklers

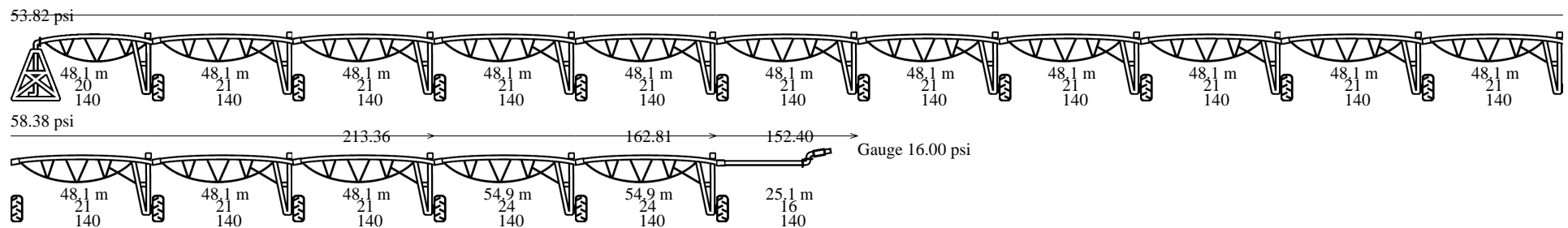
357 IWeb UP3
(357)Std 9 Grv



Regs

Position : Bottom
357 PSR-10

Spans # 16



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WARRANTY

WATER APPLICATION UNIFORMITY OBTAINED WITH THIS SYSTEM CAN BE ADVERSELY AFFECTED BY MANY VARIABLES INCLUDING THE IMPROPER MAKEUP OR INSTALLATION OF THE SPRINKLER OR SPRAY NOZZLE PACKAGE, OBSTRUCTED NOZZLES, MAINTAINING INCORRECT PIVOT PRESSURE, UNFAVORABLE CLIMATE CONDITIONS, TIGHT AND/OR SLOPING SOILS, IMPROPER END GUN ARC SETTINGS, ERRATIC AND IMPROPER OPERATING SPEED OF THE SYSTEM, AND AS WELL AS INHERENT VARIABLES IN THE MANY COMPONENTS COMPRISING THE SYSTEM. THEREFORE, SENNINGER IRRIGATION INC. MAKES NO WARRANTY AS TO THE UNIFORMITY OF COVERAGE OBTAINED FROM THIS WATER APPLICATION PRINTOUT OTHER THAN ITS MATHEMATICAL ACCURACY.

PRODUCTS MANUFACTURED BY SENNINGER IRRIGATION INC. THAT ARE SPECIFIED ON THIS SYSTEM ARE COVERED UNDER THE PRINTED "LIMITED WARRANTY" OF EACH INDIVIDUAL ITEM.

IT IS THE RESPONSIBILITY OF THE END USER TO DETERMINE IF ANY INCOMPATIBILITY EXISTS BETWEEN THE WATER DISTRIBUTION DEVICES AND THE CROP, THE SOIL, AND THE PHYSICAL STRUCTURE OF THE MECHANICAL MOVE SYSTEM. SENNINGER IRRIGATION THEREFORE DISCLAIMS ANY LIABILITY FOR DAMAGES DUE TO FAILURE OF THE SYSTEM TO PERFORM AS CONTEMPLATED.

ALL FIGURES PRESENTED ON THIS COMPUTER PRINTOUT ARE BASED ON THE FOLLOWING...

1. INFORMATION PROVIDED TO SENNINGER IRRIGATION, INC. CONCERNING PIPE LENGTH, DIAMETER, SURFACE FINISH AND OUTLET SPACINGS, PLUS WATER FLOW AND PRESSURE, PLUS ALL OTHER APPLICABLE DATA IS CORRECT.
2. THERE IS 100% WATER APPLICATION EFFICIENCY (ZERO WIND VELOCITY & NO EVAPORATION)
3. ALL BOW STRING AND WARREN TRUSS TYPE SPANS (EXCEPT THE LAST) ARE CONSIDERED TO END AT THE CENTER OF THE FLEXIBLE COUPLING. THE LAST SPAN IS CONSIDERED TO END AFTER THE "TOWER TOP" OR "END BOOM TRANSITION PIECE" FLANGE. CABLE SUPPORTED SPANS ARE CONSIDERED TO END AT THE CENTER OF THE TOWER.
4. PIVOT PRESSURE IS MEASURED UP ON THE MAIN HORIZONTAL DISTRIBUTION PIPE JUST AFTER THE LAST ELBOW.
5. PIVOT PRESSURE HAS BEEN DETERMINED IN CONSIDERATION OF A MAXIMUM FIELD ELEVATION RISE AND FALL FROM THE PIVOT POINT AS SHOWN ON PAGE ONE, WITH THESE ELEVATIONS OCCURING AT THE END OF THE SYSTEM.
6. SPRINKLER OR SPRAY NOZZLE BASE PRESSURE MAY BE LESS THAN MAIN LINE PIPE PRESSURE DUE TO THE USE OF PRESSURE REGULATORS, WITH FLOW VS. FRICTION LOSS THROUGH EACH REGULATOR CONSIDERED. WHERE DROP PIPES ARE USED THE STATIC HEAD IS ADDED TO THE MAIN PIPE PRESSURE TO DETEREMINE SPRAY NOZZLE INLET PRESSURE.

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CAUTIONS

This package was plugged with the recommended minimum ground clearance and above the crop canopy.
Due to elevations in this design the flow variation is more than 5% hence pressure regulators are recommended.

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5870
Villa Dolores
Cordoba
www.thirrigacion.com.ar

El Rincon
Equipo 22

Precipitation

Delivered Flow:	502.18 m3/h
Length:	808.13 m
Area:	205.69 ha
Distance to last tower:	783.05 m
Speed of last tower:	4.06 m
m3h / Hect: (360)	2.43 m3/h
Time for coverage:	20.21Hrs
Tire Size	14.9 x 24
Motor loaded speed (RPM)	3600
Center gear box reduction (RATIO)	52:1
Wheel gear box reduction (RATIO)	52:1

Circle Degree 360

<u>Depth</u>	<u>Timer</u>	<u>Rotation</u>
4.92 mm	100.00%	20.2hrs
5.08 mm	96.84%	20.9hrs
7.62 mm	64.56%	31.3hrs
10.16 mm	48.42%	41.7hrs
12.70 mm	38.74%	52.2hrs
15.24 mm	32.28%	62.6hrs
17.78 mm	27.67%	73.1hrs
20.32 mm	24.21%	83.5hrs
22.86 mm	21.52%	93.9hrs
25.40 mm	19.37%	104.4hrs
31.75 mm	15.49%	130.4hrs
38.10 mm	12.91%	156.5hrs
50.80 mm	9.68%	208.7hrs
63.50 mm	7.75%	260.9hrs

Caution**This chart is an estimate of the performance for your irrigation system. Tire inflation, tire slippage, soil conditions, flow fluctuations and other conditions can cause application and time deviations. The info above should be used as a guide and used with caution.

SENNINGER IRRIGATION

Date: 16/03/2013

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LOCATION				HYDRAULICS DATA					HARDWARE DESCRIPTION				Goose Neck
OUTLET COUNT	DISTANCE FROM LAST OUTLET (M)	DISTANCE FROM LAST TOWER (M)	PIVOT POINT (M)	OUTLET FLOW NEEDED (M3/H)	ACTUAL OUTLET FLOW (M3/H)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (cm)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#	
Pivot - Gauge													
1-Plg			1.4										
2		3.72	3.7	0.01	0.19	53.52	11.42	280	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	1 G	
3	2.29	6.00	6.0	0.02	0.19	53.34	11.42	287	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	2 G	
4	2.27	8.28	8.3	0.03	0.19	53.16	11.42	297	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	3 G	
5	2.29	10.56	10.6	0.04	0.19	52.97	11.42	305	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	4 G	
6	2.29	12.85	12.9	0.04	0.19	52.79	11.42	310	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	5 G	
7	2.27	15.12	15.1	0.05	0.19	52.61	11.42	318	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	6 G	
8	2.29	17.41	17.4	0.06	0.19	52.42	11.42	320	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	7 G	
9	2.29	19.70	19.7	0.07	0.19	52.24	11.42	325	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	8 G	
10	2.27	21.97	22.0	0.08	0.19	52.06	11.42	328	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	9 G	
11	2.29	24.26	24.3	0.08	0.19	51.87	11.42	328	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	10 G	
12	2.29	26.54	26.5	0.09	0.19	51.69	11.42	325	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	11 G	
13	2.27	28.82	28.8	0.10	0.19	51.51	11.42	325	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	12 G	
14	2.29	31.10	31.1	0.11	0.19	51.33	11.42	320	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	13 G	
15	2.29	33.39	33.4	0.12	0.19	51.14	11.42	315	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	14 G	
16	2.27	35.66	35.7	0.12	0.19	50.96	11.42	310	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	15 G	
17	2.29	37.95	37.9	0.13	0.19	50.78	11.41	302	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	16 G	
18	2.29	40.23	40.2	0.14	0.19	50.60	11.41	295	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	17 G	
19	2.29	42.53	42.5	0.15	0.19	50.42	11.41	287	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	18 G	
20	2.29	44.81	44.8	0.16	0.19	50.23	11.41	277	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	19 G	
21	2.29	47.10	47.1	0.17	0.19	50.05	11.41	267	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	20 G	
Tower 1													
	48.07		48.30										
22	2.40	1.20	49.5	0.18	0.19	49.86	11.41	269	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	21 G	
23	2.29	3.49	51.8	0.18	0.19	49.68	11.41	277	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	22 G	
24	2.29	5.78	54.1	0.19	0.19	49.50	11.41	287	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	23 G	
25	2.27	8.05	56.3	0.20	0.19	49.32	11.41	295	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	24 G	
26	2.29	10.34	58.6	0.20	0.19	49.14	11.41	302	PSR-10	IWob UP3 Std 9 Grv	6-GOLD	25 G	
27	2.29	12.62	60.9	0.21	0.23	48.96	11.41	310	PSR-10	IWob UP3 Std 9 Grv	6.5-GLD/*	26 G	
28	2.27	14.90	63.2	0.22	0.23	48.78	11.41	315	PSR-10	IWob UP3 Std 9 Grv	6.5-GLD/*	27 G	
29	2.29	17.18	65.5	0.23	0.23	48.60	11.41	320	PSR-10	IWob UP3 Std 9 Grv	6.5-GLD/*	28 G	
30	2.29	19.47	67.8	0.24	0.23	48.41	11.40	325	PSR-10	IWob UP3 Std 9 Grv	6.5-GLD/*	29 G	
31	2.27	21.74	70.0	0.24	0.23	48.24	11.40	328	PSR-10	IWob UP3 Std 9 Grv	6.5-GLD/*	30 G	
32	2.29	24.03	72.3	0.25	0.26	48.06	11.40	328	PSR-10	IWob UP3 Std 9 Grv	7-LIME	31 G	
33	2.29	26.31	74.6	0.26	0.26	47.87	11.40	328	PSR-10	IWob UP3 Std 9 Grv	7-LIME	32 G	
34	2.27	28.59	76.9	0.27	0.26	47.70	11.40	325	PSR-10	IWob UP3 Std 9 Grv	7-LIME	33 G	
35	2.29	30.87	79.2	0.28	0.26	47.52	11.40	320	PSR-10	IWob UP3 Std 9 Grv	7-LIME	34 G	
36	2.29	33.16	81.5	0.28	0.30	47.34	11.40	315	PSR-10	IWob UP3 Std 9 Grv	7.5-LIM/*	35 G	
37	2.27	35.43	83.7	0.29	0.30	47.16	11.40	310	PSR-10	IWob UP3 Std 9 Grv	7.5-LIM/*	36 G	
38	2.29	37.72	86.0	0.30	0.30	46.98	11.40	302	PSR-10	IWob UP3 Std 9 Grv	7.5-LIM/*	37 G	
39	2.29	40.01	88.3	0.31	0.30	46.80	11.40	295	PSR-10	IWob UP3 Std 9 Grv	7.5-LIM/*	38 G	
40	2.29	42.30	90.6	0.32	0.30	46.62	11.39	287	PSR-10	IWob UP3 Std 9 Grv	7.5-LIM/*	39 G	

SENNINGER IRRIGATION

Date: 16/03/2013

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LOCATION				HYDRAULICS DATA				HARDWARE DESCRIPTION				Goose Neck
OUTLET COUNT	DISTANCE FROM		PIVOT POINT (M)	OUTLET FLOW NEEDED (M3/H)	ACTUAL OUTLET FLOW (M3/H)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (cm)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#
	LAST OUTLET (M)	LAST TOWER (M)										
41	2.29	44.58	92.9	0.32	0.30	46.44	11.39	277	PSR-10	IWob UP3 Std 9 Grv	7.5-LIM/*	40 G
42	2.29	46.87	95.2	0.34	0.35	46.26	11.39	269	PSR-10	IWob UP3 Std 9 Grv	8-LAVENDER	41 G
Tower 2		48.07	96.37									
43	2.40	1.20	97.6	0.35	0.35	46.08	11.39	269	PSR-10	IWob UP3 Std 9 Grv	8-LAVENDER	42 G
44	2.29	3.49	99.9	0.35	0.35	45.90	11.39	277	PSR-10	IWob UP3 Std 9 Grv	8-LAVENDER	43 G
45	2.29	5.78	102.1	0.36	0.35	45.72	11.39	287	PSR-10	IWob UP3 Std 9 Grv	8-LAVENDER	44 G
46	2.27	8.05	104.4	0.36	0.35	45.54	11.39	295	PSR-10	IWob UP3 Std 9 Grv	8-LAVENDER	45 G
47	2.29	10.34	106.7	0.37	0.39	45.37	11.39	302	PSR-10	IWob UP3 Std 9 Grv	8.5-LAV/*	46 G
48	2.29	12.62	109.0	0.38	0.39	45.19	11.38	310	PSR-10	IWob UP3 Std 9 Grv	8.5-LAV/*	47 G
49	2.27	14.90	111.3	0.39	0.39	45.01	11.38	315	PSR-10	IWob UP3 Std 9 Grv	8.5-LAV/*	48 G
50	2.29	17.18	113.6	0.40	0.39	44.84	11.38	320	PSR-10	IWob UP3 Std 9 Grv	8.5-LAV/*	49 G
51	2.29	19.47	115.8	0.40	0.39	44.66	11.38	325	PSR-10	IWob UP3 Std 9 Grv	8.5-LAV/*	50 G
52	2.27	21.74	118.1	0.41	0.39	44.49	11.38	328	PSR-10	IWob UP3 Std 9 Grv	8.5-LAV/*	51 G
53	2.29	24.03	120.4	0.42	0.44	44.31	11.38	328	PSR-10	IWob UP3 Std 9 Grv	9-GREY	52 G
54	2.29	26.31	122.7	0.43	0.44	44.13	11.38	328	PSR-10	IWob UP3 Std 9 Grv	9-GREY	53 G
55	2.27	28.59	125.0	0.44	0.44	43.96	11.37	325	PSR-10	IWob UP3 Std 9 Grv	9-GREY	54 G
56	2.29	30.87	127.2	0.44	0.44	43.78	11.37	320	PSR-10	IWob UP3 Std 9 Grv	9-GREY	55 G
57	2.29	33.16	129.5	0.45	0.44	43.61	11.37	315	PSR-10	IWob UP3 Std 9 Grv	9-GREY	56 G
58	2.27	35.43	131.8	0.46	0.44	43.44	11.37	310	PSR-10	IWob UP3 Std 9 Grv	9-GREY	57 G
59	2.29	37.72	134.1	0.47	0.49	43.26	11.37	302	PSR-10	IWob UP3 Std 9 Grv	9.5-GRY/*	58 G
60	2.29	40.01	136.4	0.48	0.49	43.09	11.37	295	PSR-10	IWob UP3 Std 9 Grv	9.5-GRY/*	59 G
61	2.29	42.30	138.7	0.49	0.49	42.91	11.36	287	PSR-10	IWob UP3 Std 9 Grv	9.5-GRY/*	60 G
62	2.29	44.58	141.0	0.49	0.49	42.74	11.36	277	PSR-10	IWob UP3 Std 9 Grv	9.5-GRY/*	61 G
63	2.29	46.87	143.2	0.51	0.49	42.57	11.36	269	PSR-10	IWob UP3 Std 9 Grv	9.5-GRY/*	62 G
Tower 3		48.07	144.44									
64	2.40	1.20	145.6	0.52	0.54	42.39	11.36	269	PSR-10	IWob UP3 Std 9 Grv	10-TURQUOISE	63 G
65	2.29	3.49	147.9	0.52	0.54	42.21	11.36	277	PSR-10	IWob UP3 Std 9 Grv	10-TURQUOISE	64 G
66	2.29	5.78	150.2	0.52	0.54	42.04	11.36	287	PSR-10	IWob UP3 Std 9 Grv	10-TURQUOISE	65 G
67	2.27	8.05	152.5	0.53	0.54	41.87	11.35	295	PSR-10	IWob UP3 Std 9 Grv	10-TURQUOISE	66 G
68	2.29	10.34	154.8	0.54	0.54	41.70	11.35	302	PSR-10	IWob UP3 Std 9 Grv	10-TURQUOISE	67 G
69	2.29	12.62	157.1	0.55	0.54	41.53	11.35	310	PSR-10	IWob UP3 Std 9 Grv	10-TURQUOISE	68 G
70	2.27	14.90	159.3	0.56	0.54	41.36	11.35	315	PSR-10	IWob UP3 Std 9 Grv	10-TURQUOISE	69 G
71	2.29	17.18	161.6	0.56	0.54	41.19	11.35	320	PSR-10	IWob UP3 Std 9 Grv	10-TURQUOISE	70 G
72	2.29	19.47	163.9	0.57	0.60	41.02	11.35	325	PSR-10	IWob UP3 Std 9 Grv	10.5-TUR/*	71 G
73	2.27	21.74	166.2	0.58	0.60	40.85	11.34	328	PSR-10	IWob UP3 Std 9 Grv	10.5-TUR/*	72 G
74	2.29	24.03	168.5	0.59	0.60	40.68	11.34	328	PSR-10	IWob UP3 Std 9 Grv	10.5-TUR/*	73 G
75	2.29	26.31	170.8	0.60	0.60	40.51	11.34	328	PSR-10	IWob UP3 Std 9 Grv	10.5-TUR/*	74 G
76	2.27	28.59	173.0	0.60	0.60	40.35	11.34	325	PSR-10	IWob UP3 Std 9 Grv	10.5-TUR/*	75 G
77	2.29	30.87	175.3	0.61	0.60	40.18	11.34	320	PSR-10	IWob UP3 Std 9 Grv	10.5-TUR/*	76 G
78	2.29	33.16	177.6	0.62	0.60	40.01	11.33	315	PSR-10	IWob UP3 Std 9 Grv	10.5-TUR/*	77 G
79	2.27	35.43	179.9	0.63	0.66	39.84	11.33	310	PSR-10	IWob UP3 Std 9 Grv	11-YELLOW	78 G
80	2.29	37.72	182.2	0.64	0.66	39.68	11.33	302	PSR-10	IWob UP3 Std 9 Grv	11-YELLOW	79 G

SENNINGER IRRIGATION

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LOCATION				HYDRAULICS DATA				HARDWARE DESCRIPTION				Goose Neck
OUTLET COUNT	DISTANCE FROM		PIVOT POINT (M)	OUTLET FLOW NEEDED (M3/H)	ACTUAL OUTLET FLOW (M3/H)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (cm)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#
	LAST OUTLET (M)	LAST TOWER (M)										
81	2.29	40.01	184.4	0.65	0.66	39.51	11.33	295	PSR-10	IWob UP3 Std 9 Grv	11-YELLOW	80 G
82	2.29	42.30	186.7	0.65	0.66	39.34	11.33	287	PSR-10	IWob UP3 Std 9 Grv	11-YELLOW	81 G
83	2.29	44.58	189.0	0.66	0.66	39.18	11.32	277	PSR-10	IWob UP3 Std 9 Grv	11-YELLOW	82 G
84	2.29	46.87	191.3	0.69	0.66	39.01	11.32	269	PSR-10	IWob UP3 Std 9 Grv	11-YELLOW	83 G
Tower 4		48.07	192.51									
85	2.40	1.20	193.7	0.69	0.72	38.84	11.31	269	PSR-10	IWob UP3 Std 9 Grv	11.5-YEL/*	84 G
86	2.29	3.49	196.0	0.68	0.66	38.68	11.32	277	PSR-10	IWob UP3 Std 9 Grv	11-YELLOW	85 G
87	2.29	5.78	198.3	0.69	0.72	38.51	11.32	287	PSR-10	IWob UP3 Std 9 Grv	11.5-YEL/*	86 G
88	2.27	8.05	200.6	0.70	0.72	38.35	11.31	295	PSR-10	IWob UP3 Std 9 Grv	11.5-YEL/*	87 G
89	2.29	10.34	202.8	0.71	0.72	38.19	11.31	302	PSR-10	IWob UP3 Std 9 Grv	11.5-YEL/*	88 G
90	2.29	12.62	205.1	0.71	0.72	38.02	11.31	310	PSR-10	IWob UP3 Std 9 Grv	11.5-YEL/*	89 G
91	2.27	14.90	207.4	0.72	0.72	37.86	11.31	315	PSR-10	IWob UP3 Std 9 Grv	11.5-YEL/*	90 G
92	2.29	17.18	209.7	0.73	0.72	37.70	11.30	320	PSR-10	IWob UP3 Std 9 Grv	11.5-YEL/*	91 G
93	2.29	19.47	212.0	0.74	0.72	37.54	11.30	325	PSR-10	IWob UP3 Std 9 Grv	11.5-YEL/*	92 G
94	2.27	21.74	214.3	0.75	0.72	37.38	11.30	328	PSR-10	IWob UP3 Std 9 Grv	11.5-YEL/*	93 G
95	2.29	24.03	216.5	0.76	0.78	37.22	11.30	328	PSR-10	IWob UP3 Std 9 Grv	12-RED	94 G
96	2.29	26.31	218.8	0.76	0.78	37.06	11.30	328	PSR-10	IWob UP3 Std 9 Grv	12-RED	95 G
97	2.27	28.59	221.1	0.77	0.78	36.90	11.29	325	PSR-10	IWob UP3 Std 9 Grv	12-RED	96 G
98	2.29	30.87	223.4	0.78	0.78	36.74	11.29	320	PSR-10	IWob UP3 Std 9 Grv	12-RED	97 G
99	2.29	33.16	225.7	0.79	0.78	36.58	11.29	315	PSR-10	IWob UP3 Std 9 Grv	12-RED	98 G
100	2.27	35.43	227.9	0.79	0.78	36.43	11.29	310	PSR-10	IWob UP3 Std 9 Grv	12-RED	99 G
101	2.29	37.72	230.2	0.80	0.78	36.27	11.28	302	PSR-10	IWob UP3 Std 9 Grv	12-RED	100 G
102	2.29	40.01	232.5	0.81	0.78	36.11	11.28	295	PSR-10	IWob UP3 Std 9 Grv	12-RED	101 G
103	2.29	42.30	234.8	0.82	0.85	35.95	11.28	287	PSR-10	IWob UP3 Std 9 Grv	12.5-RED/*	102 G
104	2.29	44.58	237.1	0.83	0.85	35.80	11.28	277	PSR-10	IWob UP3 Std 9 Grv	12.5-RED/*	103 G
105	2.29	46.87	239.4	0.86	0.85	35.64	11.27	269	PSR-10	IWob UP3 Std 9 Grv	12.5-RED/*	104 G
Tower 5		48.07	240.58									
106	2.40	1.20	241.8	0.87	0.85	35.48	11.26	269	PSR-10	IWob UP3 Std 9 Grv	12.5-RED/*	105 G
107	2.29	3.49	244.1	0.85	0.85	35.32	11.27	277	PSR-10	IWob UP3 Std 9 Grv	12.5-RED/*	106 G
108	2.29	5.78	246.4	0.86	0.85	35.17	11.27	287	PSR-10	IWob UP3 Std 9 Grv	12.5-RED/*	107 G
109	2.27	8.05	248.6	0.87	0.85	35.02	11.26	295	PSR-10	IWob UP3 Std 9 Grv	12.5-RED/*	108 G
110	2.29	10.34	250.9	0.88	0.85	34.86	11.26	302	PSR-10	IWob UP3 Std 9 Grv	12.5-RED/*	109 G
111	2.29	12.62	253.2	0.88	0.92	34.71	11.26	310	PSR-10	IWob UP3 Std 9 Grv	13-WHITE	110 G
112	2.27	14.90	255.5	0.89	0.92	34.56	11.26	315	PSR-10	IWob UP3 Std 9 Grv	13-WHITE	111 G
113	2.29	17.18	257.8	0.90	0.92	34.41	11.25	320	PSR-10	IWob UP3 Std 9 Grv	13-WHITE	112 G
114	2.29	19.47	260.0	0.91	0.92	34.26	11.25	325	PSR-10	IWob UP3 Std 9 Grv	13-WHITE	113 G
115	2.27	21.74	262.3	0.91	0.92	34.11	11.25	328	PSR-10	IWob UP3 Std 9 Grv	13-WHITE	114 G
116	2.29	24.03	264.6	0.92	0.92	33.96	11.24	328	PSR-10	IWob UP3 Std 9 Grv	13-WHITE	115 G
117	2.29	26.31	266.9	0.93	0.92	33.81	11.24	328	PSR-10	IWob UP3 Std 9 Grv	13-WHITE	116 G
118	2.27	28.59	269.2	0.94	0.92	33.66	11.24	325	PSR-10	IWob UP3 Std 9 Grv	13-WHITE	117 G
119	2.29	30.87	271.5	0.95	0.92	33.51	11.24	320	PSR-10	IWob UP3 Std 9 Grv	13-WHITE	118 G
120	2.29	33.16	273.7	0.95	0.99	33.36	11.23	315	PSR-10	IWob UP3 Std 9 Grv	13.5-WHT/*	119 G

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LOCATION				HYDRAULICS DATA				HARDWARE DESCRIPTION				Goose Neck
OUTLET COUNT	DISTANCE FROM		PIVOT POINT (M)	OUTLET FLOW NEEDED (M3/H)	ACTUAL FLOW (M3/H)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (cm)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#
	LAST OUTLET (M)	LAST TOWER (M)										
121	2.27	35.43	276.0	0.96	0.99	33.22	11.23	310	PSR-10	IWob UP3 Std 9 Grv	13.5-WHT/*	120 G
122	2.29	37.72	278.3	0.97	0.99	33.07	11.23	302	PSR-10	IWob UP3 Std 9 Grv	13.5-WHT/*	121 G
123	2.29	40.01	280.6	0.98	0.99	32.93	11.22	295	PSR-10	IWob UP3 Std 9 Grv	13.5-WHT/*	122 G
124	2.29	42.30	282.9	0.99	0.99	32.78	11.22	287	PSR-10	IWob UP3 Std 9 Grv	13.5-WHT/*	123 G
125	2.29	44.58	285.2	1.00	0.99	32.64	11.22	277	PSR-10	IWob UP3 Std 9 Grv	13.5-WHT/*	124 G
126	2.29	46.87	287.4	1.03	1.06	32.49	11.21	269	PSR-10	IWob UP3 Std 9 Grv	14-BLUE	125 G
Tower 6		48.07	288.65									
127	2.40	1.20	289.9	1.04	1.06	32.34	11.20	269	PSR-10	IWob UP3 Std 9 Grv	14-BLUE	126 G
128	2.29	3.49	292.1	1.02	0.99	32.20	11.21	277	PSR-10	IWob UP3 Std 9 Grv	13.5-WHT/*	127 G
129	2.29	5.78	294.4	1.03	1.06	32.05	11.21	287	PSR-10	IWob UP3 Std 9 Grv	14-BLUE	128 G
130	2.27	8.05	296.7	1.03	1.06	31.91	11.20	295	PSR-10	IWob UP3 Std 9 Grv	14-BLUE	129 G
131	2.29	10.34	299.0	1.04	1.06	31.77	11.20	302	PSR-10	IWob UP3 Std 9 Grv	14-BLUE	130 G
132	2.29	12.62	301.3	1.05	1.06	31.63	11.20	310	PSR-10	IWob UP3 Std 9 Grv	14-BLUE	131 G
133	2.27	14.90	303.5	1.06	1.06	31.49	11.20	315	PSR-10	IWob UP3 Std 9 Grv	14-BLUE	132 G
134	2.29	17.18	305.8	1.07	1.06	31.35	11.19	320	PSR-10	IWob UP3 Std 9 Grv	14-BLUE	133 G
135	2.29	19.47	308.1	1.07	1.06	31.21	11.19	325	PSR-10	IWob UP3 Std 9 Grv	14-BLUE	134 G
136	2.27	21.74	310.4	1.08	1.06	31.08	11.19	328	PSR-10	IWob UP3 Std 9 Grv	14-BLUE	135 G
137	2.29	24.03	312.7	1.09	1.06	30.94	11.18	328	PSR-10	IWob UP3 Std 9 Grv	14-BLUE	136 G
138	2.29	26.31	315.0	1.10	1.06	30.80	11.18	328	PSR-10	IWob UP3 Std 9 Grv	14-BLUE	137 G
139	2.27	28.59	317.2	1.11	1.14	30.67	11.18	325	PSR-10	IWob UP3 Std 9 Grv	14.5-BLU/*	138 G
140	2.29	30.87	319.5	1.12	1.14	30.53	11.17	320	PSR-10	IWob UP3 Std 9 Grv	14.5-BLU/*	139 G
141	2.29	33.16	321.8	1.12	1.14	30.40	11.17	315	PSR-10	IWob UP3 Std 9 Grv	14.5-BLU/*	140 G
142	2.27	35.43	324.1	1.13	1.14	30.26	11.17	310	PSR-10	IWob UP3 Std 9 Grv	14.5-BLU/*	141 G
143	2.29	37.72	326.4	1.14	1.14	30.13	11.16	302	PSR-10	IWob UP3 Std 9 Grv	14.5-BLU/*	142 G
144	2.29	40.01	328.7	1.15	1.14	29.99	11.16	295	PSR-10	IWob UP3 Std 9 Grv	14.5-BLU/*	143 G
145	2.29	42.30	330.9	1.16	1.14	29.86	11.16	287	PSR-10	IWob UP3 Std 9 Grv	14.5-BLU/*	144 G
146	2.29	44.58	333.2	1.16	1.14	29.73	11.15	277	PSR-10	IWob UP3 Std 9 Grv	14.5-BLU/*	145 G
147	2.29	46.87	335.5	1.20	1.22	29.60	11.14	269	PSR-10	IWob UP3 Std 9 Grv	15-DK BROWN	146 G
Tower 7		48.07	336.72									
148	2.40	1.20	337.9	1.21	1.22	29.46	11.13	269	PSR-10	IWob UP3 Std 9 Grv	15-DK BROWN	147 G
149	2.29	3.49	340.2	1.19	1.22	29.33	11.14	277	PSR-10	IWob UP3 Std 9 Grv	15-DK BROWN	148 G
150	2.29	5.78	342.5	1.19	1.22	29.20	11.14	287	PSR-10	IWob UP3 Std 9 Grv	15-DK BROWN	149 G
151	2.27	8.05	344.8	1.20	1.22	29.07	11.14	295	PSR-10	IWob UP3 Std 9 Grv	15-DK BROWN	150 G
152	2.29	10.34	347.1	1.21	1.22	28.95	11.13	302	PSR-10	IWob UP3 Std 9 Grv	15-DK BROWN	151 G
153	2.29	12.62	349.3	1.22	1.22	28.82	11.13	310	PSR-10	IWob UP3 Std 9 Grv	15-DK BROWN	152 G
154	2.27	14.90	351.6	1.23	1.22	28.69	11.13	315	PSR-10	IWob UP3 Std 9 Grv	15-DK BROWN	153 G
155	2.29	17.18	353.9	1.24	1.22	28.57	11.12	320	PSR-10	IWob UP3 Std 9 Grv	15-DK BROWN	154 G
156	2.29	19.47	356.2	1.24	1.22	28.44	11.12	325	PSR-10	IWob UP3 Std 9 Grv	15-DK BROWN	155 G
157	2.27	21.74	358.5	1.25	1.21	28.32	11.12	328	PSR-10	IWob UP3 Std 9 Grv	15-DK BROWN	156 G
158	2.29	24.03	360.7	1.26	1.30	28.19	11.11	328	PSR-10	IWob UP3 Std 9 Grv	15.5-DBN/*	157 G
159	2.29	26.31	363.0	1.27	1.30	28.07	11.11	328	PSR-10	IWob UP3 Std 9 Grv	15.5-DBN/*	158 G
160	2.27	28.59	365.3	1.27	1.30	27.95	11.11	325	PSR-10	IWob UP3 Std 9 Grv	15.5-DBN/*	159 G

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LOCATION				HYDRAULICS DATA					HARDWARE DESCRIPTION				Goose Neck	
OUTLET COUNT	DISTANCE FROM		PIVOT POINT (M)	OUTLET FLOW NEEDED (M3/H)	ACTUAL OUTLET FLOW (M3/H)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (cm)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#		
	LAST OUTLET (M)	LAST TOWER (M)												
161	2.29	30.87	367.6	1.28	1.30	27.83	11.10	320	PSR-10	IWob UP3 Std 9 Grv	15.5-DBN/*	160	G	
162	2.29	33.16	369.9	1.29	1.30	27.70	11.10	315	PSR-10	IWob UP3 Std 9 Grv	15.5-DBN/*	161	G	
163	2.27	35.43	372.2	1.30	1.30	27.58	11.10	310	PSR-10	IWob UP3 Std 9 Grv	15.5-DBN/*	162	G	
164	2.29	37.72	374.4	1.31	1.30	27.46	11.09	302	PSR-10	IWob UP3 Std 9 Grv	15.5-DBN/*	163	G	
165	2.29	40.01	376.7	1.32	1.30	27.35	11.09	295	PSR-10	IWob UP3 Std 9 Grv	15.5-DBN/*	164	G	
166	2.29	42.30	379.0	1.33	1.30	27.23	11.08	287	PSR-10	IWob UP3 Std 9 Grv	15.5-DBN/*	165	G	
167	2.29	44.58	381.3	1.33	1.30	27.11	11.08	277	PSR-10	IWob UP3 Std 9 Grv	15.5-DBN/*	166	G	
168	2.29	46.87	383.6	1.38	1.38	26.99	11.06	269	PSR-10	IWob UP3 Std 9 Grv	16-ORANGE	167	G	
Tower 8		48.07	384.79											
169	2.40	1.20	386.0	1.38	1.38	26.87	11.06	269	PSR-10	IWob UP3 Std 9 Grv	16-ORANGE	168	G	
170	2.29	3.49	388.3	1.36	1.38	26.75	11.07	277	PSR-10	IWob UP3 Std 9 Grv	16-ORANGE	169	G	
171	2.29	5.78	390.6	1.36	1.38	26.64	11.07	287	PSR-10	IWob UP3 Std 9 Grv	16-ORANGE	170	G	
172	2.27	8.05	392.8	1.37	1.38	26.53	11.06	295	PSR-10	IWob UP3 Std 9 Grv	16-ORANGE	171	G	
173	2.29	10.34	395.1	1.38	1.38	26.41	11.06	302	PSR-10	IWob UP3 Std 9 Grv	16-ORANGE	172	G	
174	2.29	12.62	397.4	1.38	1.38	26.30	11.06	310	PSR-10	IWob UP3 Std 9 Grv	16-ORANGE	173	G	
175	2.27	14.90	399.7	1.39	1.38	26.19	11.05	315	PSR-10	IWob UP3 Std 9 Grv	16-ORANGE	174	G	
176	2.29	17.18	402.0	1.40	1.38	26.08	11.05	320	PSR-10	IWob UP3 Std 9 Grv	16-ORANGE	175	G	
177	2.29	19.47	404.3	1.41	1.38	25.97	11.04	325	PSR-10	IWob UP3 Std 9 Grv	16-ORANGE	176	G	
178	2.27	21.74	406.5	1.42	1.38	25.86	11.04	328	PSR-10	IWob UP3 Std 9 Grv	16-ORANGE	177	G	
179	2.29	24.03	408.8	1.43	1.47	25.75	11.03	328	PSR-10	IWob UP3 Std 9 Grv	16.5-ORN/*	178	G	
180	2.29	26.31	411.1	1.43	1.47	25.64	11.03	328	PSR-10	IWob UP3 Std 9 Grv	16.5-ORN/*	179	G	
181	2.27	28.59	413.4	1.44	1.47	25.53	11.03	325	PSR-10	IWob UP3 Std 9 Grv	16.5-ORN/*	180	G	
182	2.29	30.87	415.7	1.45	1.47	25.42	11.02	320	PSR-10	IWob UP3 Std 9 Grv	16.5-ORN/*	181	G	
183	2.29	33.16	417.9	1.46	1.47	25.32	11.02	315	PSR-10	IWob UP3 Std 9 Grv	16.5-ORN/*	182	G	
184	2.27	35.43	420.2	1.46	1.46	25.21	11.02	310	PSR-10	IWob UP3 Std 9 Grv	16.5-ORN/*	183	G	
185	2.29	37.72	422.5	1.48	1.46	25.11	11.01	302	PSR-10	IWob UP3 Std 9 Grv	16.5-ORN/*	184	G	
186	2.29	40.01	424.8	1.49	1.46	25.00	11.01	295	PSR-10	IWob UP3 Std 9 Grv	16.5-ORN/*	185	G	
187	2.29	42.30	427.1	1.49	1.46	24.90	11.00	287	PSR-10	IWob UP3 Std 9 Grv	16.5-ORN/*	186	G	
188	2.29	44.58	429.4	1.50	1.46	24.80	11.00	277	PSR-10	IWob UP3 Std 9 Grv	16.5-ORN/*	187	G	
189	2.29	46.87	431.7	1.55	1.55	24.69	10.97	269	PSR-10	IWob UP3 Std 9 Grv	17-DK GREEN	188	G	
Tower 9		48.07	432.86											
190	2.40	1.20	434.1	1.56	1.55	24.59	10.97	269	PSR-10	IWob UP3 Std 9 Grv	17-DK GREEN	189	G	
191	2.29	3.49	436.3	1.52	1.55	24.49	10.99	277	PSR-10	IWob UP3 Std 9 Grv	17-DK GREEN	190	G	
192	2.29	5.78	438.6	1.53	1.55	24.39	10.98	287	PSR-10	IWob UP3 Std 9 Grv	17-DK GREEN	191	G	
193	2.27	8.05	440.9	1.54	1.55	24.29	10.98	295	PSR-10	IWob UP3 Std 9 Grv	17-DK GREEN	192	G	
194	2.29	10.34	443.2	1.55	1.55	24.19	10.97	302	PSR-10	IWob UP3 Std 9 Grv	17-DK GREEN	193	G	
195	2.29	12.62	445.5	1.55	1.55	24.09	10.97	310	PSR-10	IWob UP3 Std 9 Grv	17-DK GREEN	194	G	
196	2.27	14.90	447.8	1.56	1.55	24.00	10.97	315	PSR-10	IWob UP3 Std 9 Grv	17-DK GREEN	195	G	
197	2.29	17.18	450.0	1.57	1.55	23.90	10.96	320	PSR-10	IWob UP3 Std 9 Grv	17-DK GREEN	196	G	
198	2.29	19.47	452.3	1.58	1.55	23.81	10.96	325	PSR-10	IWob UP3 Std 9 Grv	17-DK GREEN	197	G	
199	2.27	21.74	454.6	1.58	1.55	23.71	10.96	328	PSR-10	IWob UP3 Std 9 Grv	17-DK GREEN	198	G	
200	2.29	24.03	456.9	1.60	1.64	23.62	10.95	328	PSR-10	IWob UP3 Std 9 Grv	17.5-DGN/*	199	G	

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LOCATION				HYDRAULICS DATA				HARDWARE DESCRIPTION				Goose Neck
OUTLET COUNT	DISTANCE FROM		PIVOT POINT (M)	OUTLET FLOW NEEDED (M3/H)	ACTUAL OUTLET FLOW (M3/H)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (cm)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#
	LAST OUTLET (M)	LAST TOWER (M)										
201	2.29	26.31	459.2	1.60	1.64	23.52	10.95	328	PSR-10	IWob UP3 Std 9 Grv	17.5-DGN/*	200 G
202	2.27	28.59	461.4	1.61	1.64	23.43	10.94	325	PSR-10	IWob UP3 Std 9 Grv	17.5-DGN/*	201 G
203	2.29	30.87	463.7	1.62	1.64	23.34	10.94	320	PSR-10	IWob UP3 Std 9 Grv	17.5-DGN/*	202 G
204	2.29	33.16	466.0	1.62	1.64	23.25	10.93	315	PSR-10	IWob UP3 Std 9 Grv	17.5-DGN/*	203 G
205	2.27	35.43	468.3	1.63	1.64	23.16	10.93	310	PSR-10	IWob UP3 Std 9 Grv	17.5-DGN/*	204 G
206	2.29	37.72	470.6	1.64	1.64	23.07	10.92	302	PSR-10	IWob UP3 Std 9 Grv	17.5-DGN/*	205 G
207	2.29	40.01	472.9	1.65	1.64	22.98	10.92	295	PSR-10	IWob UP3 Std 9 Grv	17.5-DGN/*	206 G
208	2.29	42.30	475.2	1.66	1.64	22.89	10.91	287	PSR-10	IWob UP3 Std 9 Grv	17.5-DGN/*	207 G
209	2.29	44.58	477.4	1.67	1.64	22.81	10.91	277	PSR-10	IWob UP3 Std 9 Grv	17.5-DGN/*	208 G
210	2.29	46.87	479.7	1.72	1.73	22.72	10.88	269	PSR-10	IWob UP3 Std 9 Grv	18-PURPLE	209 G
Tower 10		48.07	480.93									
211	2.40	1.20	482.1	1.73	1.73	22.63	10.88	269	PSR-10	IWob UP3 Std 9 Grv	18-PURPLE	210 G
212	2.29	3.49	484.4	1.69	1.73	22.55	10.90	277	PSR-10	IWob UP3 Std 9 Grv	18-PURPLE	211 G
213	2.29	5.78	486.7	1.70	1.73	22.46	10.89	287	PSR-10	IWob UP3 Std 9 Grv	18-PURPLE	212 G
214	2.27	8.05	489.0	1.70	1.73	22.38	10.89	295	PSR-10	IWob UP3 Std 9 Grv	18-PURPLE	213 G
215	2.29	10.34	491.3	1.72	1.73	22.30	10.88	302	PSR-10	IWob UP3 Std 9 Grv	18-PURPLE	214 G
216	2.29	12.62	493.6	1.72	1.73	22.22	10.88	310	PSR-10	IWob UP3 Std 9 Grv	18-PURPLE	215 G
217	2.27	14.90	495.8	1.73	1.73	22.13	10.88	315	PSR-10	IWob UP3 Std 9 Grv	18-PURPLE	216 G
218	2.29	17.18	498.1	1.74	1.73	22.05	10.87	320	PSR-10	IWob UP3 Std 9 Grv	18-PURPLE	217 G
219	2.29	19.47	500.4	1.74	1.73	21.98	10.87	325	PSR-10	IWob UP3 Std 9 Grv	18-PURPLE	218 G
220	2.27	21.74	502.7	1.75	1.73	21.90	10.86	328	PSR-10	IWob UP3 Std 9 Grv	18-PURPLE	219 G
221	2.29	24.03	505.0	1.76	1.73	21.82	10.86	328	PSR-10	IWob UP3 Std 9 Grv	18-PURPLE	220 G
222	2.29	26.31	507.2	1.77	1.73	21.74	10.85	328	PSR-10	IWob UP3 Std 9 Grv	18-PURPLE	221 G
223	2.27	28.59	509.5	1.78	1.73	21.67	10.85	325	PSR-10	IWob UP3 Std 9 Grv	18-PURPLE	222 G
224	2.29	30.87	511.8	1.79	1.83	21.59	10.84	320	PSR-10	IWob UP3 Std 9 Grv	18.5-PUR/*	223 G
225	2.29	33.16	514.1	1.79	1.83	21.51	10.84	315	PSR-10	IWob UP3 Std 9 Grv	18.5-PUR/*	224 G
226	2.27	35.43	516.4	1.80	1.83	21.44	10.84	310	PSR-10	IWob UP3 Std 9 Grv	18.5-PUR/*	225 G
227	2.29	37.72	518.6	1.81	1.83	21.37	10.83	302	PSR-10	IWob UP3 Std 9 Grv	18.5-PUR/*	226 G
228	2.29	40.01	520.9	1.82	1.83	21.29	10.82	295	PSR-10	IWob UP3 Std 9 Grv	18.5-PUR/*	227 G
229	2.29	42.30	523.2	1.83	1.82	21.22	10.82	287	PSR-10	IWob UP3 Std 9 Grv	18.5-PUR/*	228 G
230	2.29	44.58	525.5	1.84	1.82	21.15	10.81	277	PSR-10	IWob UP3 Std 9 Grv	18.5-PUR/*	229 G
231	2.29	46.87	527.8	1.89	1.92	21.08	10.78	269	PSR-10	IWob UP3 Std 9 Grv	19-BLACK	230 G
Tower 11		48.07	529.00									
232	2.40	1.20	530.2	1.90	1.92	21.01	10.77	269	PSR-10	IWob UP3 Std 9 Grv	19-BLACK	231 G
233	2.29	3.49	532.5	1.86	1.82	20.94	10.80	277	PSR-10	IWob UP3 Std 9 Grv	18.5-PUR/*	232 G
234	2.29	5.78	534.8	1.86	1.82	20.87	10.80	287	PSR-10	IWob UP3 Std 9 Grv	18.5-PUR/*	233 G
235	2.27	8.05	537.0	1.87	1.82	20.80	10.79	295	PSR-10	IWob UP3 Std 9 Grv	18.5-PUR/*	234 G
236	2.29	10.34	539.3	1.88	1.92	20.74	10.78	302	PSR-10	IWob UP3 Std 9 Grv	19-BLACK	235 G
237	2.29	12.62	541.6	1.89	1.92	20.67	10.78	310	PSR-10	IWob UP3 Std 9 Grv	19-BLACK	236 G
238	2.27	14.90	543.9	1.90	1.92	20.61	10.78	315	PSR-10	IWob UP3 Std 9 Grv	19-BLACK	237 G
239	2.29	17.18	546.2	1.91	1.92	20.54	10.77	320	PSR-10	IWob UP3 Std 9 Grv	19-BLACK	238 G
240	2.29	19.47	548.5	1.91	1.92	20.48	10.77	325	PSR-10	IWob UP3 Std 9 Grv	19-BLACK	239 G

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LOCATION				HYDRAULICS DATA					HARDWARE DESCRIPTION				Goose Neck
OUTLET COUNT	DISTANCE FROM		PIVOT POINT (M)	OUTLET FLOW NEEDED (M3/H)	ACTUAL FLOW (M3/H)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (cm)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#	
	LAST OUTLET (M)	LAST TOWER (M)											
241	2.27	21.74	550.7	1.92	1.92	20.41	10.76	328	PSR-10	IWob UP3 Std 9 Grv	19-BLACK	240	G
242	2.29	24.03	553.0	1.93	1.92	20.35	10.76	328	PSR-10	IWob UP3 Std 9 Grv	19-BLACK	241	G
243	2.29	26.31	555.3	1.94	1.92	20.29	10.75	328	PSR-10	IWob UP3 Std 9 Grv	19-BLACK	242	G
244	2.27	28.59	557.6	1.94	1.92	20.23	10.75	325	PSR-10	IWob UP3 Std 9 Grv	19-BLACK	243	G
245	2.29	30.87	559.9	1.96	1.92	20.17	10.74	320	PSR-10	IWob UP3 Std 9 Grv	19-BLACK	244	G
246	2.29	33.16	562.2	1.96	1.92	20.11	10.74	315	PSR-10	IWob UP3 Std 9 Grv	19-BLACK	245	G
247	2.27	35.43	564.4	1.97	1.92	20.05	10.73	310	PSR-10	IWob UP3 Std 9 Grv	19-BLACK	246	G
248	2.29	37.72	566.7	1.98	2.02	19.99	10.73	302	PSR-10	IWob UP3 Std 9 Grv	19.5-BLK/*	247	G
249	2.29	40.01	569.0	1.99	2.02	19.94	10.72	295	PSR-10	IWob UP3 Std 9 Grv	19.5-BLK/*	248	G
250	2.29	42.30	571.3	2.00	2.02	19.88	10.71	287	PSR-10	IWob UP3 Std 9 Grv	19.5-BLK/*	249	G
251	2.29	44.58	573.6	2.00	2.02	19.82	10.71	277	PSR-10	IWob UP3 Std 9 Grv	19.5-BLK/*	250	G
252	2.29	46.87	575.9	2.06	2.12	19.77	10.67	269	PSR-10	IWob UP3 Std 9 Grv	20-TURQ	251	G
Tower 12		48.07	577.07										
253	2.40	1.20	578.3	2.07	2.12	19.71	10.67	269	PSR-10	IWob UP3 Std 9 Grv	20-TURQ	252	G
254	2.29	3.49	580.6	2.03	2.01	19.66	10.69	277	PSR-10	IWob UP3 Std 9 Grv	19.5-BLK/*	253	G
255	2.29	5.78	582.8	2.03	2.01	19.60	10.69	287	PSR-10	IWob UP3 Std 9 Grv	19.5-BLK/*	254	G
256	2.27	8.05	585.1	2.04	2.01	19.55	10.69	295	PSR-10	IWob UP3 Std 9 Grv	19.5-BLK/*	255	G
257	2.29	10.34	587.4	2.05	2.01	19.50	10.68	302	PSR-10	IWob UP3 Std 9 Grv	19.5-BLK/*	256	G
258	2.29	12.62	589.7	2.05	2.01	19.45	10.68	310	PSR-10	IWob UP3 Std 9 Grv	19.5-BLK/*	257	G
259	2.27	14.90	592.0	2.06	2.01	19.40	10.67	315	PSR-10	IWob UP3 Std 9 Grv	19.5-BLK/*	258	G
260	2.29	17.18	594.3	2.08	2.12	19.35	10.66	320	PSR-10	IWob UP3 Std 9 Grv	20-TURQ	259	G
261	2.29	19.47	596.5	2.08	2.12	19.30	10.66	325	PSR-10	IWob UP3 Std 9 Grv	20-TURQ	260	G
262	2.27	21.74	598.8	2.09	2.11	19.25	10.66	328	PSR-10	IWob UP3 Std 9 Grv	20-TURQ	261	G
263	2.29	24.03	601.1	2.10	2.11	19.21	10.65	328	PSR-10	IWob UP3 Std 9 Grv	20-TURQ	262	G
264	2.29	26.31	603.4	2.10	2.11	19.16	10.65	328	PSR-10	IWob UP3 Std 9 Grv	20-TURQ	263	G
265	2.27	28.59	605.7	2.11	2.11	19.11	10.64	325	PSR-10	IWob UP3 Std 9 Grv	20-TURQ	264	G
266	2.29	30.87	607.9	2.12	2.11	19.07	10.63	320	PSR-10	IWob UP3 Std 9 Grv	20-TURQ	265	G
267	2.29	33.16	610.2	2.13	2.11	19.02	10.63	315	PSR-10	IWob UP3 Std 9 Grv	20-TURQ	266	G
268	2.27	35.43	612.5	2.13	2.11	18.98	10.62	310	PSR-10	IWob UP3 Std 9 Grv	20-TURQ	267	G
269	2.29	37.72	614.8	2.15	2.11	18.94	10.62	302	PSR-10	IWob UP3 Std 9 Grv	20-TURQ	268	G
270	2.29	40.01	617.1	2.16	2.11	18.89	10.61	295	PSR-10	IWob UP3 Std 9 Grv	20-TURQ	269	G
271	2.29	42.30	619.4	2.17	2.21	18.85	10.60	287	PSR-10	IWob UP3 Std 9 Grv	20.5-DTQ/*	270	G
272	2.29	44.58	621.7	2.17	2.21	18.81	10.60	277	PSR-10	IWob UP3 Std 9 Grv	20.5-DTQ/*	271	G
273	2.29	46.87	623.9	2.24	2.21	18.77	10.55	269	PSR-10	IWob UP3 Std 9 Grv	20.5-DTQ/*	272	G
Tower 13		48.07	625.14										
274	2.40	1.20	626.3	2.25	2.21	18.73	10.55	269	PSR-10	IWob UP3 Std 9 Grv	20.5-DTQ/*	273	G
275	2.29	3.49	628.6	2.20	2.21	18.69	10.58	277	PSR-10	IWob UP3 Std 9 Grv	20.5-DTQ/*	274	G
276	2.29	5.78	630.9	2.20	2.21	18.65	10.58	287	PSR-10	IWob UP3 Std 9 Grv	20.5-DTQ/*	275	G
277	2.27	8.05	633.2	2.21	2.21	18.61	10.58	295	PSR-10	IWob UP3 Std 9 Grv	20.5-DTQ/*	276	G
278	2.29	10.34	635.5	2.22	2.21	18.57	10.57	302	PSR-10	IWob UP3 Std 9 Grv	20.5-DTQ/*	277	G
279	2.29	12.62	637.8	2.22	2.21	18.54	10.56	310	PSR-10	IWob UP3 Std 9 Grv	20.5-DTQ/*	278	G
280	2.27	14.90	640.0	2.23	2.21	18.50	10.56	315	PSR-10	IWob UP3 Std 9 Grv	20.5-DTQ/*	279	G

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LOCATION				HYDRAULICS DATA					HARDWARE DESCRIPTION				Goose Neck
OUTLET COUNT	DISTANCE FROM		PIVOT POINT (M)	OUTLET FLOW NEEDED (M3/H)	ACTUAL OUTLET FLOW (M3/H)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (cm)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#	
	LAST OUTLET (M)	LAST TOWER (M)											
281	2.29	17.18	642.3	2.24	2.21	18.47	10.55	320	PSR-10	IWob UP3 Std 9 Grv	20.5-DTQ/*	280	G
282	2.29	19.47	644.6	2.25	2.21	18.43	10.55	325	PSR-10	IWob UP3 Std 9 Grv	20.5-DTQ/*	281	G
283	2.27	21.74	646.9	2.25	2.21	18.40	10.54	328	PSR-10	IWob UP3 Std 9 Grv	20.5-DTQ/*	282	G
284	2.29	24.03	649.2	2.27	2.31	18.36	10.53	328	PSR-10	IWob UP3 Std 9 Grv	21-MUSTARD	283	G
285	2.29	26.31	651.5	2.27	2.31	18.33	10.53	328	PSR-10	IWob UP3 Std 9 Grv	21-MUSTARD	284	G
286	2.27	28.59	653.7	2.28	2.31	18.30	10.53	325	PSR-10	IWob UP3 Std 9 Grv	21-MUSTARD	285	G
287	2.29	30.87	656.0	2.29	2.31	18.27	10.52	320	PSR-10	IWob UP3 Std 9 Grv	21-MUSTARD	286	G
288	2.29	33.16	658.3	2.29	2.31	18.23	10.51	315	PSR-10	IWob UP3 Std 9 Grv	21-MUSTARD	287	G
289	2.27	35.43	660.6	2.30	2.31	18.20	10.51	310	PSR-10	IWob UP3 Std 9 Grv	21-MUSTARD	288	G
290	2.29	37.72	662.9	2.32	2.31	18.17	10.50	302	PSR-10	IWob UP3 Std 9 Grv	21-MUSTARD	289	G
291	2.29	40.01	665.1	2.33	2.31	18.14	10.49	295	PSR-10	IWob UP3 Std 9 Grv	21-MUSTARD	290	G
292	2.29	42.30	667.4	2.34	2.31	18.11	10.49	287	PSR-10	IWob UP3 Std 9 Grv	21-MUSTARD	291	G
293	2.29	44.58	669.7	2.34	2.31	18.09	10.48	277	PSR-10	IWob UP3 Std 9 Grv	21-MUSTARD	292	G
294	2.29	46.87	672.0	2.41	2.41	18.06	10.43	269	PSR-10	IWob UP3 Std 9 Grv	21.5-MUS/*	293	G
Tower 14		48.07	673.21										
PIPE I.D. CHANGE AT 673.21 m FROM 213.360 mm TO 162.814 mm													
295	2.40	1.20	674.4	2.42	2.41	17.97	10.43	269	PSR-10	IWob UP3 Std 9 Grv	21.5-MUS/*	294	G
296	2.29	3.49	676.7	2.36	2.42	17.90	10.46	282	PSR-10	IWob UP3 Std 9 Grv	21.5-MUS/*	295	G
297	2.29	5.78	679.0	2.37	2.42	17.82	10.46	292	PSR-10	IWob UP3 Std 9 Grv	21.5-MUS/*	296	G
298	2.27	8.05	681.3	2.37	2.41	17.75	10.46	305	PSR-10	IWob UP3 Std 9 Grv	21.5-MUS/*	297	G
299	2.29	10.34	683.5	2.39	2.41	17.68	10.45	315	PSR-10	IWob UP3 Std 9 Grv	21.5-MUS/*	298	G
300	2.29	12.62	685.8	2.39	2.41	17.61	10.45	325	PSR-10	IWob UP3 Std 9 Grv	21.5-MUS/*	299	G
301	2.27	14.90	688.1	2.40	2.41	17.54	10.44	333	PSR-10	IWob UP3 Std 9 Grv	21.5-MUS/*	300	G
302	2.29	17.18	690.4	2.41	2.41	17.47	10.43	341	PSR-10	IWob UP3 Std 9 Grv	21.5-MUS/*	301	G
303	2.29	19.47	692.7	2.41	2.41	17.41	10.43	346	PSR-10	IWob UP3 Std 9 Grv	21.5-MUS/*	302	G
304	2.27	21.74	695.0	2.42	2.41	17.35	10.42	351	PSR-10	IWob UP3 Std 9 Grv	21.5-MUS/*	303	G
305	2.29	24.03	697.2	2.44	2.41	17.29	10.41	353	PSR-10	IWob UP3 Std 9 Grv	21.5-MUS/*	304	G
306	2.29	26.31	699.5	2.44	2.41	17.23	10.41	356	PSR-10	IWob UP3 Std 9 Grv	21.5-MUS/*	305	G
307	2.27	28.59	701.8	2.45	2.41	17.17	10.40	356	PSR-10	IWob UP3 Std 9 Grv	21.5-MUS/*	306	G
308	2.29	30.87	704.1	2.46	2.41	17.12	10.39	353	PSR-10	IWob UP3 Std 9 Grv	21.5-MUS/*	307	G
309	2.29	33.16	706.4	2.46	2.41	17.06	10.39	351	PSR-10	IWob UP3 Std 9 Grv	21.5-MUS/*	308	G
310	2.27	35.43	708.6	2.47	2.52	17.01	10.39	346	PSR-10	IWob UP3 Std 9 Grv	22-MAROON	309	G
311	2.29	37.72	710.9	2.48	2.52	16.96	10.38	341	PSR-10	IWob UP3 Std 9 Grv	22-MAROON	310	G
312	2.29	40.01	713.2	2.49	2.52	16.91	10.37	333	PSR-10	IWob UP3 Std 9 Grv	22-MAROON	311	G
313	2.27	42.28	715.5	2.49	2.52	16.87	10.37	325	PSR-10	IWob UP3 Std 9 Grv	22-MAROON	312	G
314	2.29	44.56	717.8	2.51	2.51	16.82	10.36	315	PSR-10	IWob UP3 Std 9 Grv	22-MAROON	313	G
315	2.29	46.85	720.1	2.51	2.51	16.78	10.36	305	PSR-10	IWob UP3 Std 9 Grv	22-MAROON	314	G
316	2.27	49.12	722.3	2.52	2.51	16.74	10.35	295	PSR-10	IWob UP3 Std 9 Grv	22-MAROON	315	G
317	2.29	51.41	724.6	2.53	2.51	16.70	10.34	282	PSR-10	IWob UP3 Std 9 Grv	22-MAROON	316	G
318	2.29	53.70	726.9	2.62	2.62	16.66	10.27	269	PSR-10	IWob UP3 Std 9 Grv	22.5-MRN/*	317	G
Tower 15		54.92	728.13										
319	2.43	1.20	729.3	2.63	2.61	16.62	10.27	269	PSR-10	IWob UP3 Std 9 Grv	22.5-MRN/*	318	G

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LOCATION				HYDRAULICS DATA					HARDWARE DESCRIPTION				Goose Neck	
OUTLET COUNT	DISTANCE FROM		PIVOT POINT (M)	OUTLET FLOW NEEDED (M3/H)	ACTUAL OUTLET FLOW (M3/H)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (cm)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	Goose Neck		
	LAST OUTLET (M)	LAST TOWER (M)										G=180°Sg Sg=125°Sg Db=125°Db NOZZ#		
359	1.52	11.49	794.5	2.31	2.31	16.05	10.50	264	PSR-10	IWob UP3 Std 9 Grv	21-MUSTARD	349	G	
360-Plg			795.3											
361-Plg			796.1											
362	2.29	13.78	796.8	2.78	2.83	16.04	10.14	264	PSR-10	IWob UP3 Std 9 Grv	23.5-CRM/*	350	G	
363-Plg			797.6											
364-Plg			798.3											
365	2.29	16.06	799.1	2.32	2.31	16.03	10.50	264	PSR-10	IWob UP3 Std 9 Grv	21-MUSTARD	351	G	
366-Plg			799.5											
367-Plg			799.9											
368	1.51	17.58	800.6	1.86	1.82	16.02	10.80	264	PSR-10	IWob UP3 Std 9 Grv	18.5-PUR/*	352	G	
369-Plg			801.4											
370	1.52	19.10	802.1	1.87	1.82	16.02	10.79	264	PSR-10	IWob UP3 Std 9 Grv	18.5-PUR/*	353	G	
371-Plg			802.9											
372	1.52	20.63	803.7	1.87	1.92	16.01	10.79	264	PSR-10	IWob UP3 Std 9 Grv	19-BLACK	354	G	
373-Plg			804.4											
374	1.52	22.15	805.2	1.88	1.92	16.01	10.79	264	PSR-10	IWob UP3 Std 9 Grv	19-BLACK	355	G	
375-Plg			806.0											
376	1.52	23.67	806.7	1.81	1.83	16.00	10.83	264	PSR-10	IWob UP3 Std 9 Grv	18.5-PUR/*	356	G	
377-Plg			807.5											
378	1.42	25.09	808.1	1.75	1.73	16.00	10.86	264	PSR-10	IWob UP3 Std 9 Grv	18-PURPLE	357	G	

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MATERIALS

IWob UP3

Qty	Pad	Size	----- Positions -----									
25	Std 9 Grv	6	1	2	3	4	5	6	7	8	9	10
			11	12	13	14	15	16	17	18	19	20-T
			T-21	22	23	24	25					
5	Std 9 Grv	6.5	26	27	28	29	30					
4	Std 9 Grv	7	31	32	33	34						
6	Std 9 Grv	7.5	35	36	37	38	39	40				
5	Std 9 Grv	8	41-T	T-42	43	44	45					
6	Std 9 Grv	8.5	46	47	48	49	50	51				
6	Std 9 Grv	9	52	53	54	55	56	57				
5	Std 9 Grv	9.5	58	59	60	61	62-T					
8	Std 9 Grv	10	T-63	64	65	66	67	68	69	70		
7	Std 9 Grv	10.5	71	72	73	74	75	76	77			
7	Std 9 Grv	11	78	79	80	81	82	83-T	85			
9	Std 9 Grv	11.5	T-84	86	87	88	89	90	91	92	93	
8	Std 9 Grv	12	94	95	96	97	98	99	100	101		
8	Std 9 Grv	12.5	102	103	104-T	T-105	106	107	108	109		
9	Std 9 Grv	13	110	111	112	113	114	115	116	117	118	

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MATERIALS		IWob UP3	
Qty	Pad	Size	----- Positions -----
7	Std 9 Grv	13.5	119 120 121 122 123 124 127
12	Std 9 Grv	14	125-T T-126 128 129 130 131 132 133 134 135 136 137
8	Std 9 Grv	14.5	138 139 140 141 142 143 144 145
11	Std 9 Grv	15	146-T T-147 148 149 150 151 152 153 154 155 156
10	Std 9 Grv	15.5	157 158 159 160 161 162 163 164 165 166
11	Std 9 Grv	16	167-T T-168 169 170 171 172 173 174 175 176 177
10	Std 9 Grv	16.5	178 179 180 181 182 183 184 185 186 187
11	Std 9 Grv	17	188-T T-189 190 191 192 193 194 195 196 197 198
11	Std 9 Grv	17.5	199 200 201 202 203 204 205 206 207 208 T-342
15	Std 9 Grv	18	209-T T-210 211 212 213 214 215 216 217 218 219 220 221 222 357-T

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MATERIALS

IWob UP3

Qty	Pad	Size	----- Positions -----
7	Std 9 Grv	23	334 335 336 337 338 339 340
1	Std 9 Grv	23.5	350
357	Total		

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QUANTITIES

Qty	Item	Description
357	IWob UP3	(357)Std 9 Grv
357	PSR-10	
21	Plugs	
	(cm)	(cm) (cm)
16 x	266 Drop	1 x 299 Drop 4 x 335 Drop
1 x	269 Drop	27 x 304 Drop 4 x 342 Drop
30 x	271 Drop	5 x 307 Drop 4 x 347 Drop
27 x	279 Drop	28 x 312 Drop 4 x 352 Drop
1 x	281 Drop	31 x 317 Drop 4 x 355 Drop
4 x	284 Drop	1 x 319 Drop 4 x 357 Drop
28 x	289 Drop	28 x 322 Drop
2 x	294 Drop	33 x 327 Drop
29 x	296 Drop	41 x 329 Drop
	1094.41m	TOTAL DROP LENGTH

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Drop lengths are based on the following values.

Span	Tower height	Crown height	Ground Clearance m
1,2,3,4,5,6,7,8,9,10,11,12,13,14			
	4.06	4.70	
15,16	4.06	4.97	

Ground Clearance : General

1.40

These dimensions must be confirmed
prior to manufacturing the drop components

DEVIATION SUMMARY

Nozzle Discharge Uniformity Coefficient = 98.5 %

Span number	Area	Required flow	Actual flow	% Deviation	m3/h/ha
1	0.73	1.78	3.85	116.78	5.25
2	2.19	5.31	5.34	0.45	2.44
3	3.64	8.85	8.81	-0.36	2.42
4	5.09	12.38	12.46	0.69	2.45
5	6.55	15.91	15.91	-0.03	2.43
6	8.00	19.44	19.47	0.14	2.43
7	9.45	22.97	22.98	0.00	2.43
8	10.90	26.51	26.50	-0.02	2.43
9	12.36	30.04	30.00	-0.14	2.43
10	13.81	33.57	33.67	0.30	2.44
11	15.26	37.10	37.22	0.32	2.44
12	16.72	40.63	40.60	-0.08	2.43
13	18.17	44.17	44.08	-0.21	2.43
14	19.62	47.70	47.63	-0.14	2.43
15	24.20	58.81	58.90	0.16	2.43
16	26.09	62.74	62.69	-0.08	2.40
17	12.55	32.08	32.06	-0.08	2.55

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BILL of MATERIALS - Hydraulic Components

Qty	PartNumber	Cost	----- Description -----
357	IWOB00B3-UP3		UP3 I-Wob Standard Angle 9 Groove (Black
21	FTP3		3/4" Plugs
25	UP3NZ06		# 6 UP3 Nozzle (gold)
5	UP3NZ065		# 6.5 UP3 Nozzle (gold) notched
4	UP3NZ07		# 7 UP3 Nozzle (lime)
6	UP3NZ075		# 7.5 UP3 Nozzle (lime) notched
5	UP3NZ08		# 8 UP3 Nozzle (lavender)
6	UP3NZ085		# 8.5 UP3 Nozzle (lavender) notched
6	UP3NZ09		# 9 UP3 Nozzle (grey)
5	UP3NZ095		# 9.5 UP3 Nozzle (grey) notched
8	UP3NZ10		#10 UP3 Nozzle (turquoise)
7	UP3NZ105		#10.5 UP3 Nozzle (turquoise) notched
7	UP3NZ11		#11 UP3 Nozzle (yellow)
9	UP3NZ115		#11.5 UP3 Nozzle (yellow) notched
8	UP3NZ12		#12 UP3 Nozzle (red)
8	UP3NZ125		#12.5 UP3 Nozzle (red) notched
9	UP3NZ13		#13 UP3 Nozzle (white)
7	UP3NZ135		#13.5 UP3 Nozzle (white) notched
12	UP3NZ14		#14 UP3 Nozzle (blue)
8	UP3NZ145		#14.5 UP3 Nozzle (blue) notched
11	UP3NZ15		#15 UP3 Nozzle (brown)
10	UP3NZ155		#15.5 UP3 Nozzle (brown) notched
11	UP3NZ16		#16 UP3 Nozzle (orange)
10	UP3NZ165		#16.5 UP3 Nozzle (orange) notched
11	UP3NZ17		#17 UP3 Nozzle (dark green)
11	UP3NZ175		#17.5 UP3 Nozzle (dark green) notched
15	UP3NZ18		#18 UP3 Nozzle (purple)
17	UP3NZ185		#18.5 UP3 Nozzle (purple) notched
16	UP3NZ19		#19 UP3 Nozzle (black)

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BILL of MATERIALS - Hydraulic Components

Qty	PartNumber	Cost	----- Description -----
10	UP3NZ195		#19.5 UP3 Nozzle (black) notched
14	UP3NZ20		#20 UP3 Nozzle (dark turquoise)
13	UP3NZ205		#20.5 UP3 Nozzle (dark turquoise) notched
14	UP3NZ21		#21 UP3 Nozzle (mustard)
16	UP3NZ215		#21.5 UP3 Nozzle (mustard) notched
11	UP3NZ22		#22 UP3 Nozzle (maroon)
14	UP3NZ225		#22.5 UP3 Nozzle (maroon) notched
7	UP3NZ23		#23 UP3 Nozzle (cream)
1	UP3NZ235		#23.5 UP3 Nozzle (cream) notched
357	PSR10-3F3F		REGULATOR, SENN, PSR, 10 PSI
1092	Total		

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BILL of MATERIALS - Drop Components

Qty	PartNumber	Cost	----- Description -----

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Customer :

El Rincon

Equipo 22

Printout No:

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INSTALLATION

Len	Noz	Reg	Len	Noz	Reg	Len	Noz	Reg	Len	Noz	Reg	Len	Noz	Reg						
Out#	Pos		Out#	Pos		Out#	Pos		Out#	Pos		Out#	Pos							
-- Drop Summary --			9	325	197	17	PSR-10	-- Drop Summary --			9	325	260	20	PSR-10	-- Drop Summary --				
269x2	277x2	287x2	10	328	198	17	PSR-10	269x2	277x2	287x2	10	328	261	20	PSR-10	269x2	277x2	287x2		
295x2	302x2	310x2	11	328	199	17.5	PSR-10	295x2	302x2	310x2	11	328	262	20	PSR-10	295x2	302x2	310x2		
315x2	320x2	325x2	12	328	200	17.5	PSR-10	315x2	320x2	325x2	12	328	263	20	PSR-10	315x2	320x2	325x2		
328x3			13	325	201	17.5	PSR-10	328x3			13	325	264	20	PSR-10	328x3				
Tower No. 8			14	320	202	17.5	PSR-10	Tower No. 11			14	320	265	20	PSR-10	Tower No. 14				
1	269	168	16	PSR-10	15	315	203	17.5	PSR-10	1	269	231	19	PSR-10	1	269	294	21.5	PSR-10	
2	277	169	16	PSR-10	16	310	204	17.5	PSR-10	2	277	232	18.5	PSR-10	2	282	295	21.5	PSR-10	
3	287	170	16	PSR-10	17	302	205	17.5	PSR-10	3	287	233	18.5	PSR-10	3	292	296	21.5	PSR-10	
4	295	171	16	PSR-10	18	295	206	17.5	PSR-10	4	295	234	18.5	PSR-10	4	305	297	21.5	PSR-10	
5	302	172	16	PSR-10	19	287	207	17.5	PSR-10	5	302	235	19	PSR-10	5	315	298	21.5	PSR-10	
6	310	173	16	PSR-10	20	277	208	17.5	PSR-10	6	310	236	19	PSR-10	6	325	299	21.5	PSR-10	
7	315	174	16	PSR-10	21	269	209	18	PSR-10	7	315	237	19	PSR-10	7	333	300	21.5	PSR-10	
8	320	175	16	PSR-10	-- Drop Summary --			8	320	238	19	PSR-10	8	341	301	21.5	PSR-10			
9	325	176	16	PSR-10	269x2	277x2	287x2	9	325	239	19	PSR-10	9	346	302	21.5	PSR-10			
10	328	177	16	PSR-10	295x2	302x2	310x2	10	328	240	19	PSR-10	10	351	303	21.5	PSR-10			
11	328	178	16.5	PSR-10	315x2	320x2	325x2	11	328	241	19	PSR-10	11	353	304	21.5	PSR-10			
12	328	179	16.5	PSR-10	328x3			12	328	242	19	PSR-10	12	356	305	21.5	PSR-10			
13	325	180	16.5	PSR-10	Tower No. 10			13	325	243	19	PSR-10	13	356	306	21.5	PSR-10			
14	320	181	16.5	PSR-10	1	269	210	18	PSR-10	14	320	244	19	PSR-10	14	353	307	21.5	PSR-10	
15	315	182	16.5	PSR-10	2	277	211	18	PSR-10	15	315	245	19	PSR-10	15	351	308	21.5	PSR-10	
16	310	183	16.5	PSR-10	3	287	212	18	PSR-10	16	310	246	19	PSR-10	16	346	309	22	PSR-10	
17	302	184	16.5	PSR-10	4	295	213	18	PSR-10	17	302	247	19.5	PSR-10	17	341	310	22	PSR-10	
18	295	185	16.5	PSR-10	5	302	214	18	PSR-10	18	295	248	19.5	PSR-10	18	333	311	22	PSR-10	
19	287	186	16.5	PSR-10	6	310	215	18	PSR-10	19	287	249	19.5	PSR-10	19	325	312	22	PSR-10	
20	277	187	16.5	PSR-10	7	315	216	18	PSR-10	20	277	250	19.5	PSR-10	20	315	313	22	PSR-10	
21	269	188	17	PSR-10	8	320	217	18	PSR-10	21	269	251	20	PSR-10	21	305	314	22	PSR-10	
-- Drop Summary --			9	325	218	18	PSR-10	-- Drop Summary --			9	325	281	20.5	PSR-10	22	295	315	22	PSR-10
269x2	277x2	287x2	10	328	219	18	PSR-10	269x2	277x2	287x2	10	328	282	20.5	PSR-10	23	282	316	22	PSR-10
295x2	302x2	310x2	11	328	220	18	PSR-10	295x2	302x2	310x2	11	328	283	21	PSR-10	24	269	317	22.5	PSR-10
315x2	320x2	325x2	12	328	221	18	PSR-10	315x2	320x2	325x2	12	328	284	21	PSR-10	-- Drop Summary --				
328x3			13	325	222	18	PSR-10	328x3			13	325	285	21	PSR-10	269x2	282x2	292x1		
Tower No. 9			14	320	223	18.5	PSR-10	Tower No. 12			14	320	286	21	PSR-10	295x1	305x2	315x2		
1	269	189	17	PSR-10	15	315	224	18.5	PSR-10	1	269	252	20	PSR-10	325x2	333x2	341x2			
2	277	190	17	PSR-10	16	310	225	18.5	PSR-10	2	277	253	19.5	PSR-10	346x2	351x2	353x2			
3	287	191	17	PSR-10	17	302	226	18.5	PSR-10	3	287	254	19.5	PSR-10	356x2					
4	295	192	17	PSR-10	18	295	227	18.5	PSR-10	4	295	255	19.5	PSR-10						
5	302	193	17	PSR-10	19	287	228	18.5	PSR-10	5	302	256	19.5	PSR-10						
6	310	194	17	PSR-10	20	277	229	18.5	PSR-10	6	310	257	19.5	PSR-10						
7	315	195	17	PSR-10	21	269	230	19	PSR-10	7	315	258	19.5	PSR-10						
8	320	196	17	PSR-10				8	320	259	20	PSR-10								

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INSTALLATION

Len				Noz				Len				Noz			
Out#	Pos	Reg		Out#	Pos	Reg		Out#	Pos	Reg		Out#	Pos	Reg	
Tower No. 15				12											
1	269	318	22.5	13	264	347	18.5								
2	282	319	22	14											
3	292	320	22	15	264	348	18.5								
4	305	321	22	16											
5	315	322	22.5	17	264	349	21								
6	325	323	22.5	18											
7	333	324	22.5	19											
8	341	325	22.5	20	264	350	23.5								
9	346	326	22.5	21											
10	351	327	22.5	22											
11	353	328	22.5	23	264	351	21								
12	356	329	22.5	24											
13	356	330	22.5	25											
14	353	331	22.5	26	264	352	18.5								
15	351	332	22.5	27											
16	346	333	22.5	28	264	353	18.5								
17	341	334	23	29											
18	333	335	23	30	264	354	19								
19	325	336	23	31											
20	315	337	23	32	264	355	19								
21	305	338	23	33											
22	295	339	23	34	264	356	18.5								
23	282	340	23	35											
24	269	341	20	36	264	357	18								
-- Drop Summary --				Overhang				-- Drop Summary --							
269x2	282x2	292x1		264x16											
295x1	305x2	315x2		---				---							
325x2	333x2	341x2		264x16	267x1	269x30		277x27	280x1	282x4		287x28	292x2	295x29	
346x2	351x2	353x2		297x1	302x27	305x5		310x28	315x31	318x1		320x28	325x33	328x41	
356x2				333x4	341x4	346x4		333x4	341x4	346x4		351x4	353x4	356x4	
Tower No. 16															
1	264	342	17.5												
2															
3	264	343	18.5												
4															
5	264	344	21												
6															
7															
8	264	345	21												
9															
10	264	346	18.5												
11															