## PREMIER PLASTICS FLOUT® (3/16" 2" 26" DROP) TEST SUMMARY

**GROUP 1** 

Orifice Size 3/16", 1" laterals, 2" diam. Transport Pipe 26" drop, 3.5 Deg. Slope

3" Flout 144 US Gal Dose Tank Model FLT175

							120 Due	Open
NO. OF ORIFICES	20	40	60	80	100	120	120 Pre- Flooded	Lateral Ends
TOTAL ORIFICE AREA SQ. IN.	0.552	1.105	1.657	2.209	2.762	3.314	3.314	4.713
DURATION OF DISCHARGE MIN/SEC.		8:10	5:45	5:00	4:30	4:20		4:05
AVG. RATE OF DISCHARGE USGPM	13.2	22.5	29.0	33.0	36.0	37.5		41.5
USGPM PER ORIFICE	0.61	0.56	0.483	0.412	0.36	0.312		
RESIDUAL HEAD AT FIELD INS.	35	23	17	13	9	5.5		1.5
SQUIRT HEIGHT INS.	28	18	13	9.5	6.5	4		
SQUIRT HEIGHT ÷ RESIDUAL HEAD	0.80	0.78	0.76	0.73	0.72	0.73		
	Fully	Fully	Fully	Fully	Fully	Fully		Fully
NOTES	Flooded	Flooded	Flooded	Flooded	Flooded	Flooded		Flooded
	Flow	Flow	Flow	Flow	Flow	Flow		Flow

## PREMIER PLASTICS FLOUT (3/16" 3" 26" DROP) TEST SUMMARY

Orifice Size 3/16", 1" laterals, 3" diam. Transport Pipe

3" Flout 144 US Gal Dose

26" drop, 3.5 Deg. Slope

Tank Model FLT175

NO. OF ORIFICES	20	40	60	80	100	120	120 Pre- Flooded	120 VENTED
TOTAL ORIFICE AREA SQ. IN.	0.552	1.105	1.657	2.209	2.762	3.314	3.314	4.713
DURATION OF DISCHARGE MIN/SEC.		7:20	5:30	5:00	4:45	4:35	3:50	4:20
AVG. RATE OF DISCHARGE USGPM		24.5	32	35	36	37	44.0	
USGPM PER ORIFICE		0.613	0.533	0.438	0.360	0.308	0.367	
RESIDUAL HEAD AT FIELD INS.		31	22	13.5	7.5	5.0	7.75	
SQUIRT HEIGHT INS.		26	16.5	9.5	5.25	3.25	6.0 est.	
SQUIRT HEIGHT ÷ RESIDUAL HEAD		0.84	0.75	0.7	0.7	0.65	0.77 est.	
NOTES		fully flooded at 45 secs.	fully flooded at 1:40	air bleeds out over full cycle	air bleeds out after 2:30	stable part channel flow		

## PREMIER PLASTICS FLOUT (3/16" 3" 26" DROP - P) TEST SUMMARY

Orifice Size 3/16", 1" laterals, 3" diam. **PREFLOODED** Transport Pipe

3" Flout 144 US Gal Dose

\_\_26" drop, 3.5 Deg. Slope Tank Model FLT175

							120 Pre-	Open Lateral
NO. OF ORIFICES	20	40	60	80	100	120	Flooded	Ends
TOTAL ORIFICE AREA SQ. IN.	0.552	1.105	1.657	2.209	2.762	3.314		4.713
DURATION OF DISCHARGE MIN/SEC.		7:05	5:20	4:05	4:05	3:50		
AVG. RATE OF DISCHARGE USGPM		25	33	37	41	44		
USGPM PER ORIFICE		0.625	0.55	0.463	0.41	0.367		
RESIDUAL HEAD AT FIELD INS.		29.25	19.5	15	11	7.75 est.		
SQUIRT HEIGHT INS.	34	24	16	11	8.5	6 est.		
SQUIRT HEIGHT ÷ RESIDUAL HEAD		0.81	0.82	0.73	0.77	0.77 est.		
NOTES								