

PREMIER PLASTICS FLOUT® (3/16" 2" 10.5' DROP) TEST SUMMARY

GROUP 6

Orifice Size 3/16", 1" laterals, 3/2" diam. Transport Pipe
10' 6" drop, 20 Deg. Slope

3" Flout 144 US Gal Dose

Tank Model FLT175

NO. OF ORIFICES	20	40	60	80	100	120	120 Pre-Flooded	Open 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.	7:50	4:35	3:15	2:50	2:40	2:40		
AVG. RATE OF DISCHARGE USGPM	24.0	36	51	60	66	68		
USGPM PER ORIFICE	1.20	0.900	0.85	0.750	0.65	0.570		
RESIDUAL HEAD AT FIELD INS.	127	69	60.5	46	33	24.3		
SQUIRT HEIGHT INS.	89	48	44	34	26.5	22		
SQUIRT HEIGHT ÷ RESIDUAL HEAD	0.70	0.70	0.73	0.74	0.80	0.90		
NOTES	flooded stable	air & turbulence	air & turbulence	air & turbulence	air & turbulence air sucked in at tank vent	air & turbulence air sucked in at tank vent		

PREMIER PLASTICS FLOUT® (3/16" 3/2" 10.5' DROP-V) TEST SUMMARY

Orifice Size 3/16", 1" laterals, 3/2" diam. Vented Transport Pipe
10' 6" drop, 20 Deg. Slope

3" Flout 144 US Gal Dose

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.		3:50	3:05	2:40	2:35	2:25		
AVG. RATE OF DISCHARGE USGPM	24.0	43.0	56	66	72	75		
USGPM PER ORIFICE	1.20	1.075	0.930	0.825	0.720	0.625		
RESIDUAL HEAD AT FIELD INS.	126	95	73	53.5	39	28.0		
SQUIRT HEIGHT INS.	79	62	53	42.5	32	25		
SQUIRT HEIGHT ÷ RESIDUAL HEAD	0.63	0.65	0.73	0.8	0.8	0.89		
NOTES								

PREMIER PLASTICS FLOUT® (3/16" 3/2" 10.5' DROP-P) TEST SUMMARY

Orifice Size 3/16", 1" laterals, 3/2" diam. PREFLOODED Transport Pipe
10' 6" drop, 20 Deg. Slope

3" Flout 144 US Gal Dose

Tank Model FLT175

NO. OF ORIFICES	20	40	60	80	100	120	120 Pre-Flooded	Open 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.	6:30	3:45	2:50	2:35	2:30	2:20		
AVG. RATE OF DISCHARGE USGPM	23.0	42	56	67	74	77		
USGPM PER ORIFICE	1.15	1.038	0.93	0.830	0.74	0.640		
RESIDUAL HEAD AT FIELD INS.	127.5	102	75	55	39	27.5		
SQUIRT HEIGHT INS.	89	71	52	42	31	23		
SQUIRT HEIGHT ÷ RESIDUAL HEAD	0.70	0.70	0.69	0.76	0.79	0.84		
NOTES					air drawn in at tank vent	air drawn in at tank vent		