

Maximum Performance (MaP) of Toilet Fixtures Flushometer Valve/Bowl Combinations

Appendix D - Sorted by Manufacturer

IMPORTANT NOTE: The evaluation and MaP measurement of the flushometer bowl/valve combinations shown below was performed using the existing MaP protocol designed for residential applications. A new, more rigorous commercial MaP protocol for non-residential (public restroom) applications is under development. The fixture combinations shown below will likely be re-tested in 2009 or 2010 against the new commercial protocol and it is possible that results will change.

MaP Test Report No. (for internal use only)	KEY:				MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height Bowl	High-Efficiency Toilet (HET)	Rear Discharge (Back Outlet)	Floor-Mounted (F) OR Wall-Mounted (W)
	Flush performance (MaP column & score)									
	250 grams to 475 grams									
	500 grams and more									
	Type of toilet fixture									
Make	Model Name	Bowl Model Number	Valve Model Number	6-L (1.6-gal) Flushometer Bowl & Valve Combination (Commercial applications)						
				4.8-L (1.28-gal) (max) Flushometer Bowl & Valve Combination HET (Commercial applications)						
10-134	American Standard	Afwall FloWise EL	3351.128 (top spud)	Sloan 111-1.2 (1-1/2")	800	E	*	YES	R	W
10-135	American Standard	Afwall EL	3351.160 (top spud)	Toto TET 1 DNCR (1-1/2")	1,000	E	*	NO	R	W
10-135	American Standard	Afwall EL	3352.160 (top spud; w/bedpan lugs)	Toto TET 1 DNCR (1-1/2")	1,000	E	*	NO	R	W
10-134	American Standard	Afwall FloWise EL	3352.128 (top spud; w/bedpan lugs)	Sloan 111-1.2 (1-1/2")	800	E	*	YES	R	W
13-092	American Standard	Priolo EL ADA	3695.128 (top spud)	Sloan 111-1.2 (1-1/2")	1,000	E	*	YES	R	F
13-092	American Standard	Priolo EL ADA	3696.128 (top spud; w/bed pan lugs)	Sloan 111-1.2 (1-1/2")	1,000	E	*	YES	R	F
13-094	American Standard	Priolo EL ADA	3695.016 flushometer bowl (top spud)	Toto TET 1 DNCR (1-1/2")	1,000	E	*	NO	R	F
13-094	American Standard	Priolo EL ADA	3696.016 flushometer bowl (top spud; w/ bed pan lugs)	Toto TET 1 DNCR (1-1/2")	1,000	E	*	NO	R	F
13-094	American Standard	Priolo EL ADA	3697.016 flushometer bowl (back spud)	Toto TET 1 DNCR (1-1/2")	1,000	E	*	NO	R	F
13-094	American Standard	Priolo EL ADA	3698.016 flushometer bowl (back spud; w/ bed pan lugs)	Toto TET 1 DNCR (1-1/2")	1,000	E	*	NO	R	F
13-092	American Standard	Priolo EL ADA	3697.128 flushometer bowl (back spud)	Toto TET 1 DNCR (1-1/2")	1,000	E	*	YES	R	F
13-092	American Standard	Priolo EL ADA	3698.128 flushometer bowl (back spud; w/ bed pan lugs)	Toto TET 1 DNCR (1-1/2")	1,000	E	*	YES	R	F

MaP Test Report No. (for internal use only)	KEY:				MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height Bowl	High-Efficiency Toilet (HET)	Rear Discharge (Back Outlet)	Floor-Mounted (F) OR Wall-Mounted (W)
	Flush performance (MaP column & score)									
	250 grams to 475 grams									
	500 grams and more									
	Type of toilet fixture									
	6-L (1.6-gal) Flushometer Bowl & Valve Combination (Commercial applications)									
4.8-L (1.28-gal) (max) Flushometer Bowl & Valve Combination HET (Commercial applications)										
Make	Model Name	Bowl Model Number	Valve Model Number							
10-129	American Standard	Madera EL (10-inch rough-in)	3451.160 (top spud)	Toto TET 1 DNCR (1-1/2")	1,000	E		NO		F
10-129	American Standard	Madera EL (10-inch rough-in)	3452.160 (top spud; w/bedpan lugs)	Toto TET 1 DNCR (1-1/2")	1,000	E		NO		F
10-130	American Standard	Madera EL (10-inch rough-in)	3453.160 (back spud)	Toto TET 1 DNCR (1-1/2")	1,000	E		NO		F
10-130	American Standard	Madera EL (10-inch rough-in)	3455.160 (back spud; w/bedpan lugs)	Toto TET 1 DNCR (1-1/2")	1,000	E		NO		F
10-131	American Standard	Madera EL ADA (10-inch rough-in)	3461.160 (top spud)	Toto TET 1 DNCR (1-1/2")	1,000	E	*	NO		F
10-131	American Standard	Madera EL ADA (10-inch rough-in)	3462.160 (top spud; w/bedpan lugs)	Toto TET 1 DNCR (1-1/2")	1,000	E	*	NO		F
10-132	American Standard	Madera FloWise EL (10-inch rough-in)	3451.128 (top spud)	Sloan 111-1.2 (1-1/2")	1,000	E		YES		F
10-132	American Standard	Madera FloWise EL (10-inch rough-in)	3452.128 (top spud; w/bedpan lugs)	Sloan 111-1.2 (1-1/2")	1,000	E		YES		F
10-133	American Standard	Madera FloWise EL ADA (10-in rough)	E	Sloan 111-1.2 (1-1/2")	1,000	E	*	YES		F
10-133	American Standard	Madera FloWise EL ADA (10-in rough)	3462.128 (top spud; w/bedpan lugs)	Sloan 111-1.2 (1-1/2")	1,000	E	*	YES		F
16-045	Briggs	Carlton EL	7711 (top spud)	Sloan Royal 111-1.28	800	E		YES		F
16-166	Briggs	Sultan EL ADA	7781 (top spud)	Sloan Royal 111-1.28	800	E	*	YES	R	W
15-105	Contrac	Clark Commercial EL (wall mount-ADA possible)	4762CEX (top spud)	Sloan 111-1.2	800	E	*	YES	R	W
15-107	Contrac	Clay Commercial EL ADA	4762BOX (top spud)	Sloan 111-1.2	800	E	*	YES		F
15-106	Contrac	Colter Commercial EL	4762BEX (top spud)	Sloan 111-1.2	850	E		YES		F
16-137	Contrac	Clark EL (wall mount-ADA possible)	4762CEU (back spud)	Sloan Royal 111-1.2	550	E	*	YES	R	W
16-138	Contrac	Clay EL	4762BOU (back spud)	Sloan Royal 111-1.2	550	E		YES		F
16-139	Contrac	Colter EL	4762BEU (back spud)	Sloan Royal 111-1.2	600	E		YES		F
11-041	Crane	EcoWhirlton EL	3325	Sloan WES 111	800	E		YES		F

MaP Test Report No. (for internal use only)	KEY:				MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height Bowl	High-Efficiency Toilet (HET)	Rear Discharge (Back Outlet)	Floor-Mounted (F) OR Wall-Mounted (W)
	Flush performance (MaP column & score)									
	250 grams to 475 grams									
	500 grams and more									
	Type of toilet fixture									
	6-L (1.6-gal) Flushometer Bowl & Valve Combination (Commercial applications)									
4.8-L (1.28-gal) (max) Flushometer Bowl & Valve Combination HET (Commercial applications)										
Make	Model Name	Bowl Model Number	Valve Model Number							
11-044	Crane	Hymont RF ADA	3H701	Sloan WES 111	350	R	*	NO		F
11-043	Crane	Placidus RF ADA	3446	Sloan WES 111	350	R	*	NO	R	W
11-035	Crane	San Walton EL	3480	Sloan WES 111	800	E		NO		F
11-033	Crane	San Walton EL	3481	Sloan WES 111	500	E		NO		F
11-032	Crane	San Walton EL	3484	Sloan WES 111	500	E		NO		F
11-031	Crane	San Walton EL ADA	31080	Sloan WES 111	600	E	*	NO		F
11-034	Crane	San Walton EL ADA	31082	Sloan WES 111	800	E	*	NO		F
11-036	Crane	San Walton EL ADA	31083	Sloan WES 111	800	E	*	NO		F
11-042	Crane	Whirlton RF	3327	Sloan WES 111	400	R		NO		F
10-143	Kohler	Wellworth EL	K-4406	Kohler K-10956 (piston type)	1,000	E		YES		F
16-007	Kohler	Wellcomme EL	K-4350 (top spud)	Toto TMT 1HNCR (piston type)	800	E		NO		F
16-008	Kohler	Highcliffe EL	K-4368 (top spud)	Toto TMT 1HNCR (piston type)	800	E		NO		F
14-116	Kohler	Kingston EL	K-4325	Kohler K-10956 (piston type)	1,000	E	*	YES	R	W
15-161	Kohler	Kingston EL	K-4323	Kohler K-10956 (piston type)	1,000	E	*	YES	R	W
16-006	Kohler	Kingston EL ADA	K-4330 (top spud)	Toto TMT 1HNCR (piston type)	1,000	E	*	NO	R	W
12-001	Kohler	Highline EL ADA	K-4405 and K-4405L bowls	Kohler K-10956 (piston type)	1,000	E	*	YES		F
15-078	Mansfield	None EL ADA	1319BPL (with bedpan lugs)	American Std 6065.121	1,000	E	*	YES		F
15-079	Mansfield	None EL ADA	1319	American Std 6065.121	1,000	E	*	YES		F
15-080	Mansfield	Erie EL (wall mount-ADA possible)	1301	Zurn ZTS6200EV	1,000	E	*	YES	R	W
15-081	Mansfield	Erie EL (wall mount-ADA possible)	1301BPL (with bedpan lugs)	Zurn ZTS6200EV	1,000	E	*	YES	R	W
16-128	Penguin	None EL ADA	016-1.28 (top spud)	Sloan Royal 111-1.28	1,000	E	*	YES		F

MaP Test Report No. (for internal use only)	KEY:				MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height Bowl	High-Efficiency Toilet (HET)	Rear Discharge (Back Outlet)	Floor-Mounted (F) OR Wall-Mounted (W)
	Flush performance (MaP column & score)									
	250 grams to 475 grams									
	500 grams and more									
	Type of toilet fixture									
	6-L (1.6-gal) Flushometer Bowl & Valve Combination (Commercial applications)									
Make	Model Name	Bowl Model Number	Valve Model Number	4.8-L (1.28-gal) (max) Flushometer Bowl & Valve Combination HET (Commercial applications)						
				16-129	Penguin	None EL ADA	015-1.6 (top spud)	Sloan Royal 111-1.6	1,000	E
13-057	Pro-Flo	None EL	PF1721 (top spud)	Sloan Royal 111-1.2 valve	900	E		YES		F
13-059	Pro-Flo	None EL (wall mount-ADA possible)	PF1731 (top spud)	Sloan Royal 111-1.2 valve	850	E	*	YES	R	W
13-055	Pro-Flo	None EL ADA	PF1723 (top spud)	Sloan Royal 111-1.2 valve	900	E	*	YES		F
16-058	Sloan Valve	Efficiency Series EL	ST2000 (top spud)	Sloan Royal 111-1.28	1,000	E		YES		F
16-059	Sloan Valve	Efficiency Series EL (dual-flush)	ST2002 (top spud)	Sloan Dual Flush WES 111	1,000	E		YES		F
16-060	Sloan Valve	Efficiency Series EL	ST2003A-WC 1.6gpf (top spud) ¹	Sloan Royal 111-1.6 ¹	1,000	E		NO		F
16-061	Sloan Valve	Efficiency Series EL ADA	ST2020A (top spud)	Sloan Royal 111-1.28	1,000	E		YES		F
16-062	Sloan Valve	Efficiency Series EL ADA	ST2022A (top spud)	Uppercut 1.6 / 1.1 dual flush	1,000	E		YES		F
16-063	Sloan Valve	Efficiency Series EL ADA	ST2023A (top spud)	Sloan Royal 111-1.6	1,000	E		NO		F
16-064	Sloan Valve	Efficiency Series EL	ST2050A (top spud) ²	Sloan Royal 111-1.28 ²	1,000	E		YES	R	W
16-065	Sloan Valve	Efficiency Series EL ADA	ST2052ST2052-1.6/1.1 (top spud)	Uppercut 1.6 / 1.1 dual flush	1,000	E		YES	R	W
16-066	Sloan Valve	Efficiency Series EL	ST2053 (top spud)	Sloan Royal 111-1.6 ⁴	1,000	E		NO	R	W
13-042	Toto	None EL ADA	CT708EV (rear spud)	Toto TET 1LN-32 (piston type)	1,000	E	*	YES	R	W
13-039	Toto	None EL	CT705EN (G) (top spud)	Toto TET 1LN-32 (piston type)	1,000	E		YES		F
13-040	Toto	None EL ADA	CT705ELN (G) (top spud)	Toto TET 1LN-32 (piston type)	1,000	E	*	YES		F
13-041	Toto	None EL ADA	CT708E (top spud)	Toto TET 1LN-32 (piston type)	1,000	E	*	YES	R	W
13-056	Tynan Plumbing	None EL	7501 (top spud)	Sloan Royal 111-1.2 valve	900	E		YES		F
13-058	Tynan Plumbing	None EL (wall mount-ADA possible)	7503 (top spud)	Sloan Royal 111-1.2 valve	850	E	*	YES	R	W
13-054	Tynan Plumbing	None EL ADA	7502 (top spud)	Sloan Royal 111-1.2 valve	900	E	*	YES		F
16-026	Vortens	Atenas EL ADA	3108 (top spud)	Toto TMT 1HNCR (piston type)	600	E	*	YES	R	W

MaP Test Report No. (for internal use only)	KEY:				MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height Bowl	High-Efficiency Toilet (HET)	Rear Discharge (Back Outlet)	Floor-Mounted (F) OR Wall-Mounted (W)
	Flush performance (MaP column & score)									
	250 grams to 475 grams									
	500 grams and more									
	Type of toilet fixture									
Make	6-L (1.6-gal) Flushometer Bowl & Valve Combination (Commercial applications)									
	4.8-L (1.28-gal) (max) Flushometer Bowl & Valve Combination HET (Commercial applications)									
	Model Name	Bowl Model Number	Valve Model Number							
16-123	Vortens	Vienna EL Flux	3115-V (top spud)	Toto TMT 1HNCR (piston type)	1,000	E		NO		F
16-122	Vortens	Vienna H Flux EL ADA	3114-V (top spud)	Toto TMT 1HNCR (piston type)	1,000	E	*	NO		F
16-027	Vortens	Atenas EL ADA	3108 (top spud)	Toto TMT 1HNCR (piston type)	1,000	E	*	NO	R	W
12-041	Zurn	None EL	Z5655-BWL HET	Zurn ZTS6200EV	1,000	E		YES		F
12-042	Zurn	None EL ADA	Z5665-BWL HET	Zurn ZTS6200EV	1,000	E	*	YES		F
12-043	Zurn	None EL (wall mount-ADA possible)	Z5615-BWL HET	Zurn ZTS6200EV	800	E	*	YES	R	W

1-Combination of valve and bowl sold as Model WETS 2003.1001-1.6

2-Combination of valve and bowl sold as Model WETS 2050.1001-1.28

3-Combination of valve and bowl sold as Model WETS 2052.1002-1.6/1.1 WES

4-Combination of valve and bowl sold as Model WETS 2053.1001-1.6

Notes: RF – Round-front toilet bowl

EL – Elongated-front toilet bowl

ADA-Meets bowl-height requirements of Americans with Disabilities Act; does NOT imply that fixture meets any other ADA requirements.

G - Gallons per Flush

L - Litres per Flush