

BRIEFING 3

FLUSHMATE®

A DIVISION OF SLOAN VALVE COMPANY

New Las Vegas Attraction a Monument to Plumbing Efficiency



A testament to the current Las Vegas enthusiasm for lavish hotel/entertainment complexes, the 30-story, pyramid-shaped Luxor also stands as a monument to practical choices in plumbing design.

The 2,526-room hotel, one of the 20 largest in the world, includes seven restaurants, the world's largest swimming pool complex, a 100,000 square foot casino and a 110-seat show room. The complex also features three cutting edge entertainment areas: a motion-based ride, a 3D movie theater with a seven-story screen and a 14,000 square foot Sega-sponsored video arcade.

The sheer room volume of the Luxor necessitated some practical thinking when it came to plumbing and plumbing maintenance. That's why the Luxor chose Sloan's *FLUSHMATE*® system for its thousands of water closets. The *FLUSHMATE* system, which works with most well-known water closet brands, uses pressure as its operating force instead of gravity.

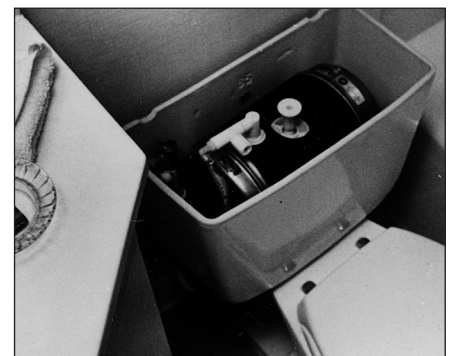
John Place, of P & P Plumbing in Las Vegas, worked with the Luxor because of his previous experience with installations at other hotels that are part of Circus-Circus Properties.

"At one hotel, we installed 300 gravity units, and we were experiencing more than 100

stoppages a day. After just a few weeks, we replaced the water closets there with pressure units and eliminated the problem," said Place. "That's why we specified *FLUSHMATE* for the Luxor."

Unlike a gravity system, which is more prone to flooding and stoppages, the *FLUSHMATE* system features a larger trapway with fewer bends for fewer clogs and a deeper trap seal for greater safety. In addition, the larger water seal surface results in less staining, easing daily housekeeping chores.

Jim Brown, assistant chief engineer at the Luxor, notes that the *FLUSHMATE* system has been extremely reliable, and, in fact, requires less maintenance. "My previous experience was at an operation that had three-gallon gravity units, and we would get as many as 10 calls a shift," he said. "Since the Luxor opened in October, our plumbing calls have been minimal. We're averaging only two to three water closet maintenance calls a shift."



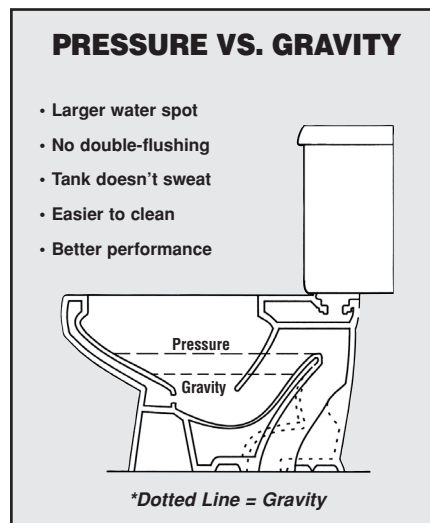
Brown added that initially, the water closets were more costly to purchase, but that the payback, in terms of labor and water savings, would be faster. "We save on repairs, and our staff can concentrate on other tasks."

"That's important in the hotel business," points out Mike "Mac" McNelly, the sales representative from Southwestern Mechanical Sales Co. that worked closely with Brown and Place in bringing *FLUSHMATE*® to the Luxor. "With the Energy Policy kicking in this year, we figure it's going to change a lot of attitudes about plumbing pretty fast. After all, people are used to a certain level of performance in a toilet. The fact is, most people take that performance for granted. The 1.6 rule is going to change all that. People are going to learn quickly that trying to flush a toilet with less than half the water used in a traditional toilet just doesn't cut it - unless it's *FLUSHMATE*. We believe people will simply be unwilling to compromise their performance expectations. Besides, when you think about the savings in maintenance and housekeeping that go along with units with *FLUSHMATE* inside, well, there's just no comparison."

The powerful *FLUSHMATE* system uses just 1.6 gpf (gallons per flush), meeting the Energy Policy Act of 1992 requirement for toilets manufactured after January 1, 1994. And although most water closets now can only use 1.6 gpf, the higher force of the *FLUSHMATE* pressure system (70 gallons per minute [gpm]/265.0 Lpm vs. 25 gpm/95.0 Lpm common with gravity-fed systems) assures the performance levels McNelly was referring to, as well as conserving water by eliminating the double-

flushing and leakage common with gravity systems. In fact, based on independent test reports, gravity units necessitate double-flushing about 40% of the time, compared with the *FLUSHMATE*, which clears bowls after one flush 100% of the time.

"We don't broadcast this, but I've seen tests in the lab where *FLUSHMATE* is manufactured that intentionally plug both gravity and *FLUSHMATE*-equipped toilets with toilet paper," McNelly adds. "The results are amazingly consistent: *FLUSHMATE* will clear the bowl within two flushes, while the gravity-type toilets end up flooding the surrounding area because they fail to clear the bowl even after eight or more flushes."



All *FLUSHMATE*-equipped toilets deliver a flushing action that effectively scrubs the bowl, leaving it cleaner. The Sloan operating system also has a positive seal which eliminates costly and annoying water leaks between flushes. The tank is sweatless, too, because of the double-wall design, eliminating wet floors during humid conditions. *FLUSHMATE*'s larger water spot (10" x 12" compared to gravity's 6" x 8") also helps with

housekeeping chores.

FLUSHMATE complies with nationally recognized Plumbing Codes and Standards, and its performance has been verified by independent testing laboratories. *FLUSHMATE* Operating Systems, which are manufactured by Sloan Valve Company, the world's leading producer of pressurized flushing devices, are currently being incorporated in a wide variety of styles and colors by the leading fixture manufacturers in the world.

FLUSHMATE-equipped pressure-assist toilets are available from leading fixture manufacturers worldwide in a variety of colors and styles.

FLUSHMATE systems are available in 1.6 gpf (6 lpf) or 1.0 gpf (3.8 lpf) models from leading fixture manufacturers worldwide in a variety of styles and colors. For more information on these systems, including *FLUSHMATE*'s automatic sensor flushing systems, please contact us or visit our website: www.flushmate.com.



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