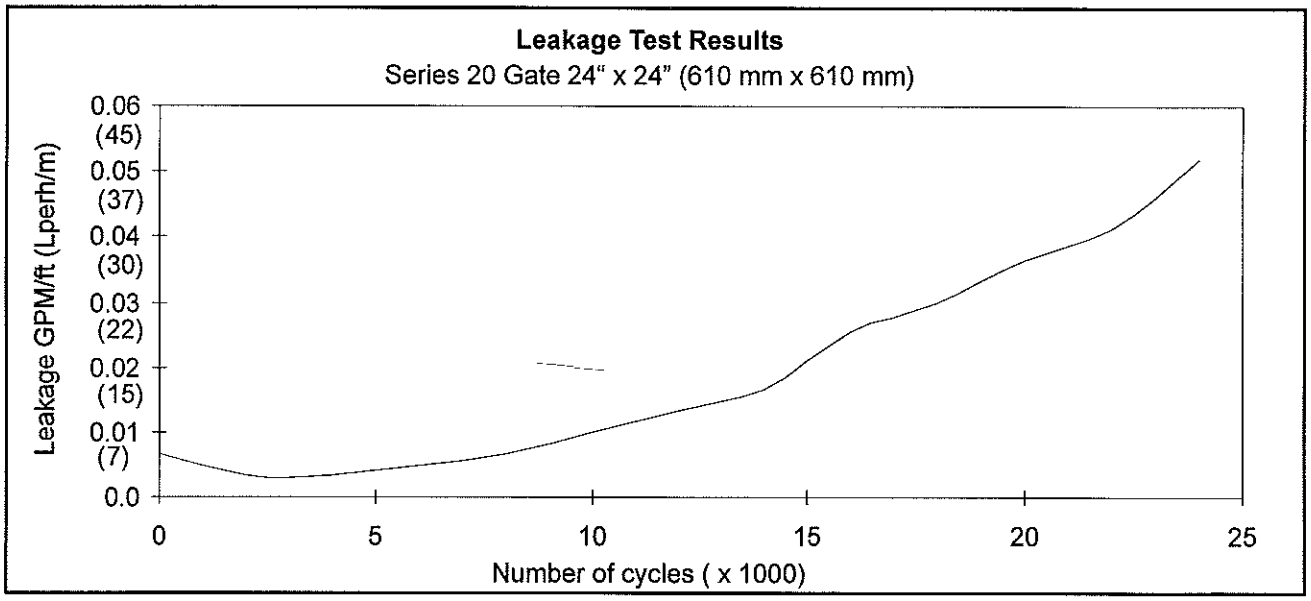
Performances

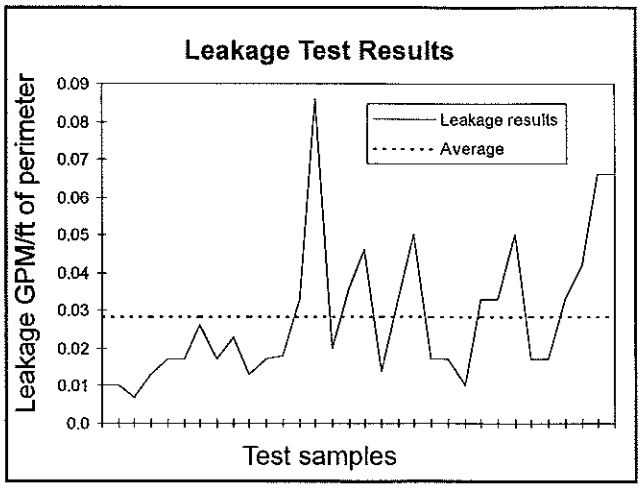
To evaluate and measure the life expectancy and performance of the Series 20 UHMWPE self-adjusting seals, a series of tests have been conducted on a 24" x 24" sluice gate. To simulate the worst conditions, the gate was installed at the exhaust of a sandblast fan. The maximum wear on the seal after 25, 000 cycles was 0.05 inches. The leakage after the equivalent of 68 years with one cycle per day was 0.05 GPM per foot of perimeter at an unseating head of 30 feet. Still the leakage exceeded by 100 % AWWA Standard C501.



Curve of the number of cycles vs leakage rate

Leakage

The following are the results of tests on several 24" x 24" Series 20 gates tested to meet the AWWA C501 leakage (0.2 GPM/ft. of perimeter)standard. The average leakage rate in unseating conditions is located at 0.028 GPM/ft per foot of perimeter. The gates can be adjusted, depending on their use, to a leakage as low as 0.01 GPM/ft. of perimeter. Each Series 20 gate is tested, and then a leakage test report is written. This report can be provided on request.



Graph of leakage tests results on various gates