



Product Technology Bulletin 414

Spring Set Completes 6 Years of Service

In January 2009, an original field service trial Kelso JS75S valve (304 stainless steel construction, installed in 2002) came into a repair shop on a tank car brought in for routine maintenance. The valve was on tank car built by Union Tank Car and was in Ammonium Nitrate service. The field service trial valve was replaced with an updated JS75S and returned to Kelso for evaluation as a long service valve.

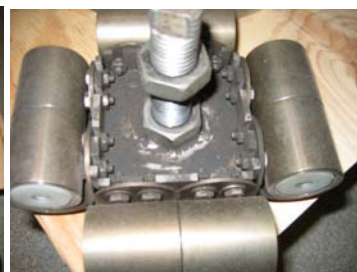
Shown here are pictures of the valve and spring package in the as-received condition. There was minor surface dirt present but there was no indication of abnormal component wear or physical spring degradation. The springs were subjected to factory tension testing in the as-received condition and the readings showed values were within the design limits of new springs.



Side View – As Received
Dome Cover Removed



Top View – As Received



Spring Block Set

All other valve components were in excellent condition and showed no adverse effects from seven years of exposure to the rigors of the life of a tank car.

If you would like more information on the above or on the Kelso Pressure Relief Valves, please contact Kelso.

Neil Gambow
847-323-2878
Gambow@Kelsotech.com

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