



APPLICATION STORIES

APPLICATION: TANK TRUCK FILLING / HOSE ABRASION

BLACOH FLUID CONTROL was contacted recently by a large manufacturer of bulk chemicals. They use air operated diaphragm pumps (AODD) to load chemicals into tanker trucks through a 20' flexible 3" reinforced hose that lies on a concrete floor.

PROBLEM:

The pulsation generated by their AODD pumps caused the hose to shake back and forth, scuffing the hose on the concrete floor and causing "hose abrasion". Ultimately, these hoses would fail from abrasion due to the scuffing action. This failure meant considerable downtime, lost product, extensive clean-up, and hose replacement - all of which came with an associated cost.

SOLUTION:

BLACOH FLUID CONTROL installed a SENTRY 5 gallon pulsation dampener at the discharge of each of the 3" AODD pumps. The dampener absorbed the pulses generated by the pump and the flow from the pump is now smooth and steady.



RESULT:

The hose no longer shakes and scuffs on the concrete floor. Since the installation of the BLACOH pulsation dampeners, not a single hose has been replaced due to abrasion failure. The investment in pulsation dampeners has paid for itself several times, in both time and cost savings.

SUBMITTED BY:

Kenneth R. Mink
LIQUID HANDLING EQUIPMENT



BLACOH FLUID CONTROL, INC.

601 Columbia Ave • Bldg D • Riverside, CA • 92507 • USA
Phone: 800.603.7867 • 951.342.3100 • Fax: 951.342.3101
Email: sales@blacoh.com • www.blacoh.com