



Founded in 1953

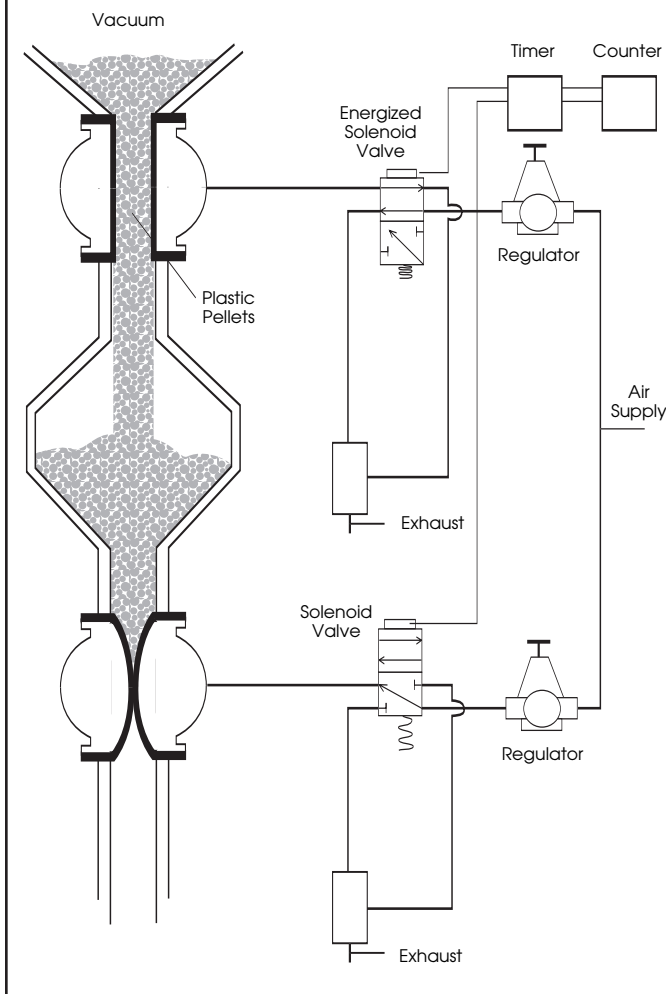
Red Valve Company, Inc.

# Bulk Material *application study*

## Rotary Air Lock • Type A Pinch Valves

Air Operated Valves

### RED VALVES USED AS ROTARY AIR LOCK FEEDERS



Red Valves have been used extensively in lieu of rotary air lock feeders. They overcome several problems of rotary valves and are considerably less expensive, particularly in larger sizes. Large size rotary air locks require huge supports which are costly in themselves. When handling powders, two Red Valves installed as shown overcome problems of extruding. In time, the seats of rotary air lock valves leak. When plastic powder gets in these seats, the powder extrudes. The pressure and heat in the seats of metal valves create plastic curls that are objectionable to customers.

Extruded plastic curls will not disintegrate after forming. Red Valves gently caress the powder. Should powder become trapped in the sleeve, it will not become compressed enough to bind and will quickly fall apart as it bounces down the air stream.

Illustrated are two 6" Red Valve Type A Valves used to discharge plastic powder from a vacuum storage tank. The timer opens the upper valve for several minutes filling the storage chamber between the Red Valves.

A time delay then gives the upper valve a chance to close before the lower valve is opened. The timer then opens the lower valve for a fixed period of time, permitting the plastic powder to discharge from the intermediate chamber. Vacuum is maintained during this entire sequence. The cost of two Red Valves with control equipment is considerably less than other control methods.