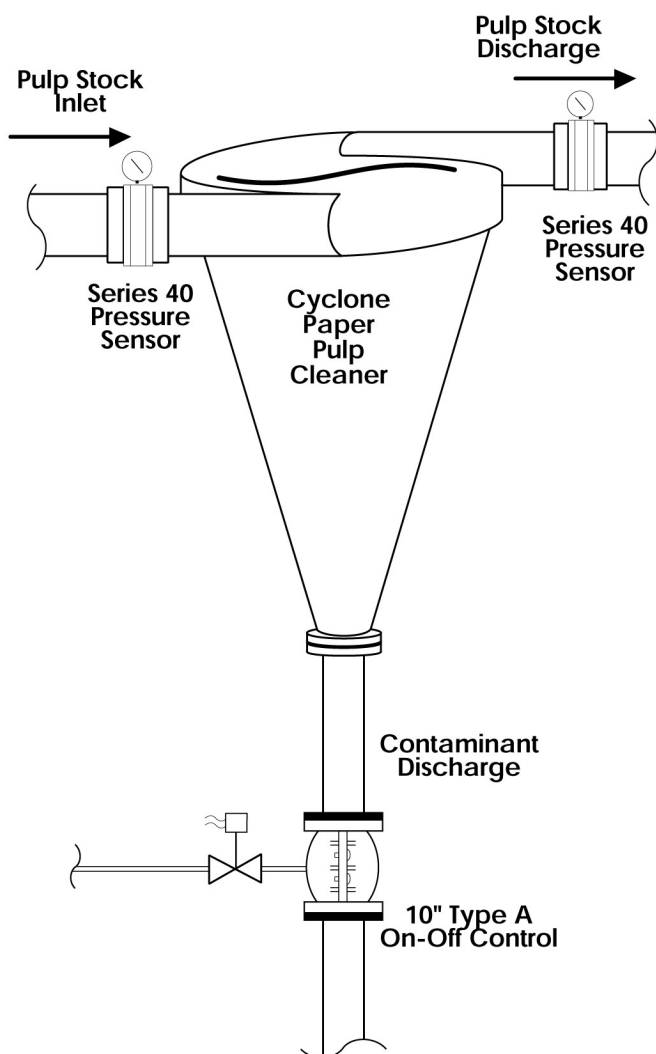


Application Data

Recycled Paper ♦ Cyclone Discharge ♦ Type A/Pressure Sensors



REMOVING CONTAMINANTS FROM PULP USING PRESSURE SENSORS AND TYPE A VALVES



Red Valve Products are the ideal solution for controlling pulp discharge on this cyclone cleaner. Control is vital for keeping the pulp free from contaminants.

The use of cyclone cleaners has become increasingly common in the paper industry because of the large amounts of paper that are being recycled into everything from grocery bags to bathroom tissue. Paper, when collected as scrap from newsprint to cardboard cartons, etc., is baled and shipped back to a recycling paper mill. In shipment, it becomes contaminated with dirt, sand, nails, wood, and a variety of abrasive contaminants. After being returned to a liquified pulp state, these contaminants must be removed before further refining can begin.

In this application, the cyclone is mounted with Red Valve Series 40 Pressure Sensors on the inlet and clean discharge lines of the cyclone cleaner to measure the differential pressure of the pulp stock. This will give an indication of whether the cleaner is working and if the cyclone is full.

In addition to the Series 40 Pressure sensors located at the input level of the cyclone cleaner, a Red Valve Type A Pinch Valve was installed at the waste discharge end of the process. Typically, knife gate valves were used on this type of recycling system, but were found to be ineffective due to the clogging of the gate by staples, rubber bands, nails, sand, paper clips, etc.. The debris causes the seats to recess, making it impossible to achieve complete closure.

Red Valve's Type A Pinch Valves seal drop tight on solids and abrasive materials, eliminating the clogging which often occurs with metal seated valves. A long, maintenance-free service life on tough slurry and abrasive applications is assured with the Type A Pinch valve.

Red Valve's complete product line of Pressure Sensors and Pinch Valves are designed to meet our customer's exact flow requirements and specific applications.

