

# Application Data

Petro-Chemical ♦ Clarifier ♦ Control Valves



Red Valve's Series 5200D-Port Control Pinch Valve was specified for this Texas Washwater Pumping station. The valve is used to maintain a constant pressure in the pump discharge.

One plant water pump normally operates with the second plant water pump in standby. The pumps are rated to produce a maximum flow with a pressure that will provide 85 psi to the surface wash system. At maximum flow conditions with the surface wash operating, the Series 5200D-Port Control Valve is closed. The valve is set at 110 psi. When the surface wash shuts down, the flow demand decreases, and system pressure increases. The Control Valve will try to maintain 110 psi and will begin to open as the pressure rises.

When the Control Valve opens, flow returns to the clear well. Since the line discharges to atmosphere at the clear well, it was decided to install a Series TFO Backflow Preventor to handle the pressure drop and eliminate cavitation at this location. Both the 6" Series 5200D-Port Control Valve and the Series TFO are operating reliably and efficiently.

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

