

VALVE SOLUTIONS

PULP & PAPER

PBM PROVIDES THE VALVE PRODUCTS AND SERVICES NEEDED TO TAKE RELIABLE SAMPLES, MINIMIZE LEAKAGE AND PLUG FORMATION, REDUCE DOWNTIME, AND PRODUCE A SUPERIOR PAPER PRODUCT.

TRANSMITTER ISOLATION VALVES WITH CLEAN-IN-PLACE

Valves in vapor recovery tanks allow the transmitter to read the level of black liquor. However, vapor can coat the higher of the two transmitters and its isolation valve. This coating solidifies and prevents the transmitter from getting an accurate differential pressure reading.

The PBM Transmitter Isolation Valve has a purge port and two milled flats on the ball facing the tank. Water or other fluid can be injected into the valve through the purge port and flow between the body cavity and the milled flats toward the



tank. This spraying action prevents the liquor from coating and solidifying on the valve. There is no process interruption during the procedure and the transmitter can obtain reliable readings.

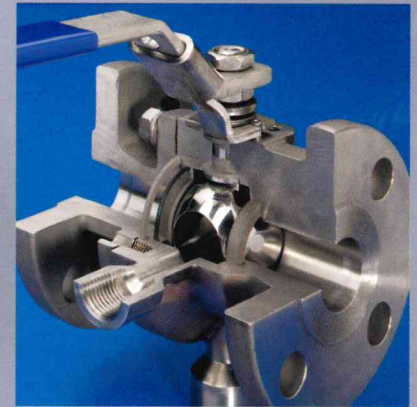
A standard port permits calibration with the ball valve in the closed position.

ANSI VALVES WITH CLEAN-IN-PLACE

Clogged valves can be commonplace in pulp stock or liquor lines. Pulp stock dewater and hardens, creating plugs, and liquor coats the valve and solidifies. Eventually, these conditions can cause a valve to become inoperable.

In addition, on the liquor lines, seats often become damaged. When the valve is closed, the liquor coats the ball and hardens. When the valve is opened, the solidified liquor scrapes against and damages the seats.

PBM's ANSI CIP valve prevents coating and plugging. The valve can be cleaned in place,



without process interruption, using purge ports and either one or three specially milled ball flats. A large flat allows cleaning of the ball's crown. Two additional flats on the downstream side of the ball allow cleaning of the downstream piping.



SAMPLING VALVES WITH CLEAN-IN-PLACE

Sampling is an important part of monitoring the pulp and paper process. There are two common problems with valves used in sampling. One is that residual stock from previous sampling can contaminate the new sample. The other is that pulp fibers can get trapped in the closed ball port, sample piping, and body cavity. These trapped fibers dewater, solidify, and form a plug that makes the valve inoperable.

PBM solves this problem with Clean-In-Place capability. This distinctive design, with one purge



port and two milled flats, allows quick and easy cleaning of the valve without removing it from the line or interrupting the process. It ensures reliable samples and prevents plugs from forming around the ball and in the ball port.

