



- Bleaching
- Coatings
- Liquors
- Process Sampling

- Process Cleaning
- Pulp Stock
- Transmitter Isolation





## Valves for Pulp & Paper



IMI PBM

IMI PBM stands out in the Pulp and Paper Processing Industry by providing creative solutions for those difficult applications that ordinary valves cannot handle.

A valve engineering and manufacturing company, IMI PBM provides valve products and services needed to take reliable samples; minimize leakage and plug formation; reduce downtime; and produce a superior paper product. The valves are available in various exotic alloys.

IMI PBM is more than a valve manufacturer. IMI PBM is a solution provider.

### **Transmitter Isolation Valve (TIV)**

IMI PBM's Transmitter Isolation Valve includes (4) 1/4" FNPT purge ports with plugs. Purge media can be water, steam or other media that can safely dissolve and remove build-up that can occur in the valve body or on the face of the transmitter. When purging with steam, IMI PBM recommends upgrading the seat and seal material to S-TEF<sup>®</sup> (316 stainless steel filled Teflon<sup>®</sup> -150lb. maximum steam pressure). A simple quarter turn isolation valve replaces a traditional knife gate valve.



Valves allow isolation of instrument for planned maintenance or in-situ calibration. www.pbmvalve.com

## www.pbmvalve.com







3-PIECE

V-BALL CONTROL VALVE

**BALL VALVE** 



SAMPLING VALVES WITH CLEAN-IN-PLACE



**AUTOMATION & CONTROLS** 



IMI PBM offers a selection of pneumatic and electric actuation packages. IMI PBM can easily mount an IMI PBM valve to any actuator with a female drive and an ISO bolt pattern.

- Electric and Pneumatic
- Direct Mount
- Torque outputs of <14,400 in-lbs/1,627 Nm in Spring Return, <25,470 in lbs/2,877 Nm in Double Acting
- Bi-directional Travel Adjustments
- Electric actuators can perform and almost limitless range of functions when equipped with optional features and related control equipment
- Pneumatic styles:
- Rack & Pinion Double Acting
- Rack & Pinion Spring Return
- Solenioid valves (NEMA 4, 7, Intrinsically Safe)
- Position monitors with mechanical or proximity switches
- Pneumatic and Electro-Pneumatic Positioners



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## **IMI PBM Valves** in Pulp & Paper Applications

#### **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. IMI PBM solves this problem with Clean-in-Place feature. 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.



CAVITY FILLERS

TWO WAY ACTUATED VALVES FOR THE COATING KITCHEN



PULP STOCK SAMPLING VALVE





MULTI-PORTED BALL VALVE WITH PURGES

In the coating kitchen, the flow of pigments, adhesives, plasticizers and dyes is controlled by valves. It is not uncommon for valves

to leak, or for trapped latex or coating solids to render a valve inoperable.

Poor stem to actuator alignment can cause vertically installed valves to leak at the stem packing. IMI PBM prevents this leakage with Direct Mount Actuation and a live-loaded stem design. Direct Mount Actuation improves stem alignment and eliminates side loading of the valve stem.

In addition, using IMI PBM cavity fillers minimizes the chance of trapped material in the body cavity. As an alternative, purge ports and milled flats can also be used to permit Clean-In-Place without process interruption.

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