



PBM Valves in Pulp & Paper Processing

Resilient & Metal Seated Ball Valves

- BLEACHING
- COATINGS
- LIQUORS
- PROCESS SAMPLING
- PROCESS CLEANING
- PULP STOCK
- TRANSMITTER ISOLATION





Valves for Pulp & Paper



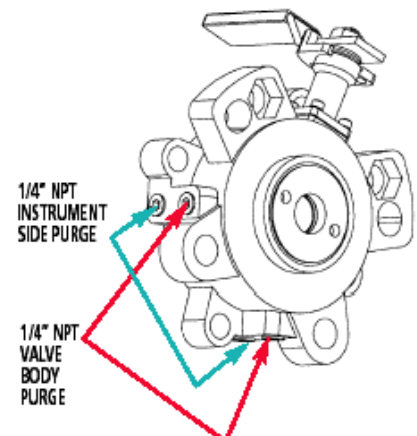
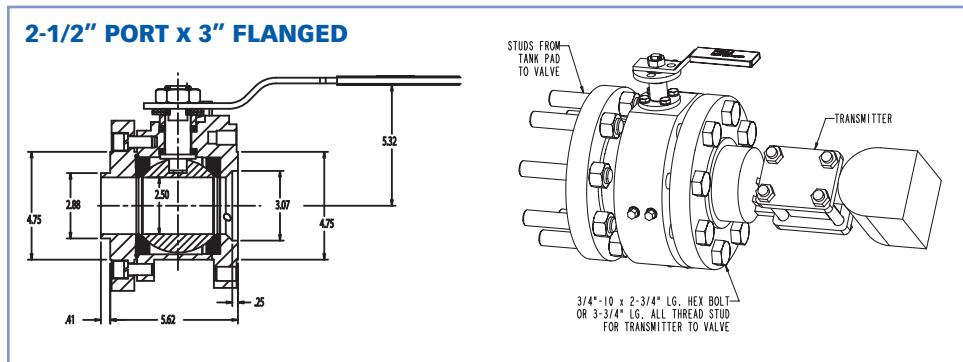
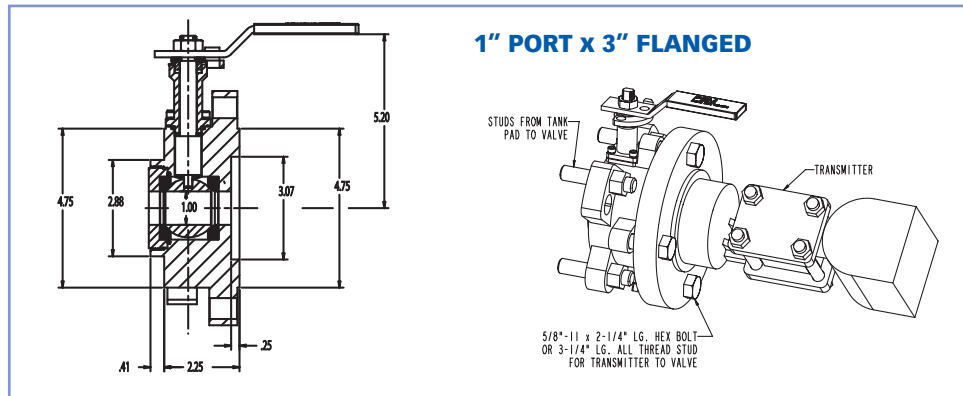
PBM stands out in the pulp and paper processing industry by providing creative solutions for those difficult applications that ordinary valves cannot handle.

A valve engineering and manufacturing company, 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.

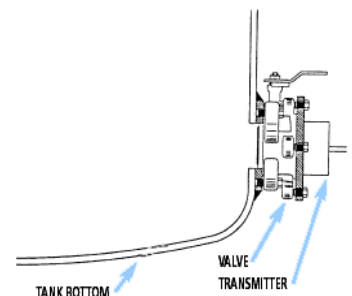
PBM is more than a valve manufacturer. PBM is a solution provider.

Transmitter Isolation Valve (TIV)

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, PBM recommends upgrading the seat and seal material to S-TEF® (316 stainless steel filled Teflon® -150-lb. maximum steam pressure). A simple quarter turn isolation valve replaces a traditional knife gate valve.



PBM's Exclusive TIV purge port design



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



Transmitter Isolation ball valve



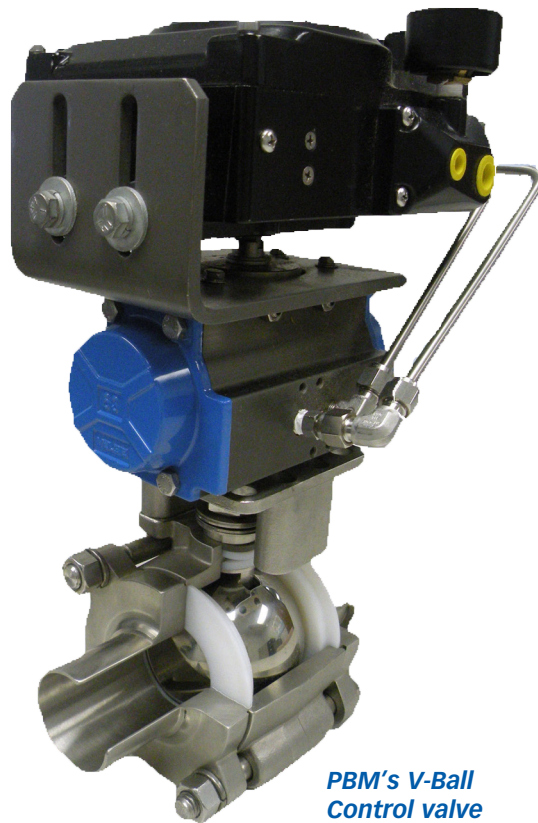
Sampling valves with Clean-in-Place



Automation & Controls



Instrument valve with Compression Fittings



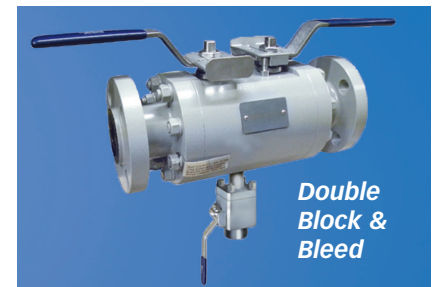
PBM's V-Ball Control valve



PBM's ANSI ball valve with optional purge flush ports



Multi-ported ball valve



Double Block & Bleed



3-piece ball valve

PBM offers a selection of pneumatic and electric actuation packages. PBM can easily mount a 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 an almost limitless range of functions when equipped with optional features and related control equipment
- Pneumatic styles:
Rack & Pinion Double Acting
Rack & Pinion Spring Return
- Solenoid valves (NEMA 4, 7, Intrinsically Safe)
- Position monitors with mechanical or proximity switches
- Pneumatic and Electro-Pneumatic Positioners

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. 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.



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. 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 PBM cavity fillers minimizes the chance of trapped material in the body cavity. Or, as an alternative, purge ports and milled flats can be used to permit Clean-in-Place without process interruption.

MADE IN THE USA

PBM is a company over 110 years old that manufactures valves in our plant located in Irwin, Pennsylvania.



PBM, Inc. • 1070 Sandy Hill Road, Irwin, PA 15642
Phone: 800.967.4PBM • 724.863.0550 • Fax: 724.864.9255
E-mail: info@pbmvalve.com

www.PBMValve.com

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