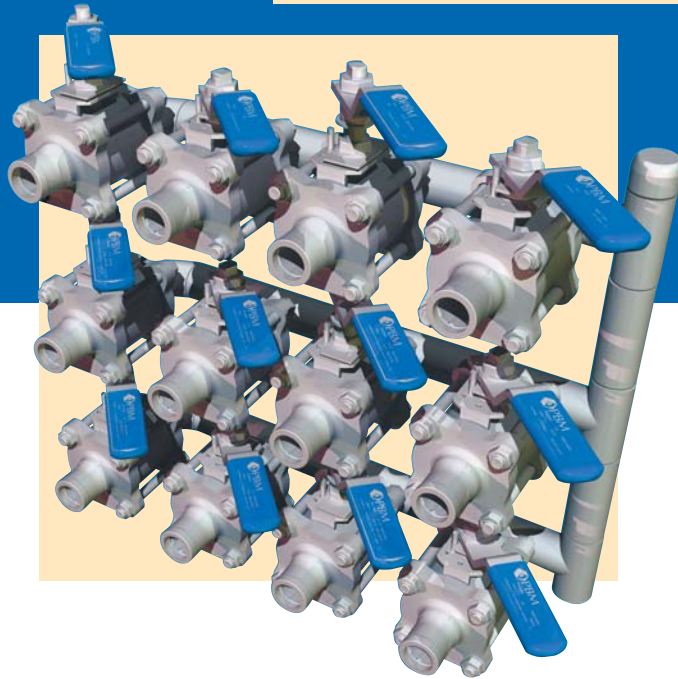


FABFLEX®



VALVE

MANIFOLDS

PBM's Fabflex[®] Valve Manifolds

A valve engineering and manufacturing company, PBM provides the valve products and services required to minimize contamination, comply with sanitary regulations, facilitate clean-in-place, solve clogging problems, reduce downtime, and produce high quality products.

PBM is more than a valve manufacturer.

PBM is a solution provider.

PBM recognizes that many valve applications are unique and often have special problems. PBM combines specific application requirements with innovative engineering and quality manufacturing processes. Add to that a commitment to quality service, and the result is satisfaction.

PBM valves combine the convenience of standard features with the option to customize a valve for a specific application. PBM's unique Adjust-O-Seal[®] design is standard on most valves, and only PBM has the ability to provide Clean-In-Place/Steam-In-Place capability without process interruption.

If you have a special valve requirement, call us.
We may already have the solution.

PBM handles tough valve application problems... just like yours.



Custom Features Make PBM Valves Perform



Adjust-O-Seal®

The exclusive PBM Adjust-O-Seal design allows inline adjustment to compensate for normal wear on seats. This reduces downtime, maintenance, and repair costs by increasing the time between seat replacements.

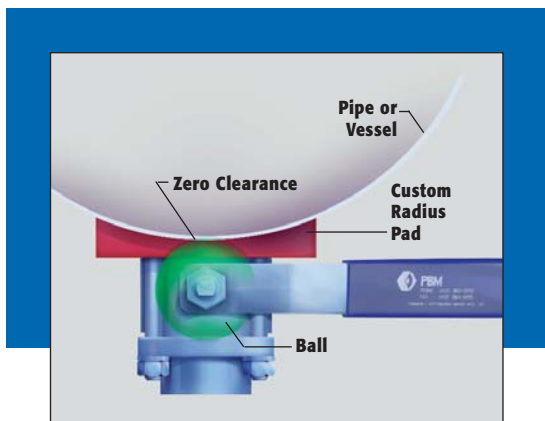
The valve seats are always compressed against the ball. This keeps process media out of the body chamber surrounding the ball.

The Adjust-O-Seal design is a standard feature on most PBM ball valves.

True-Bore®

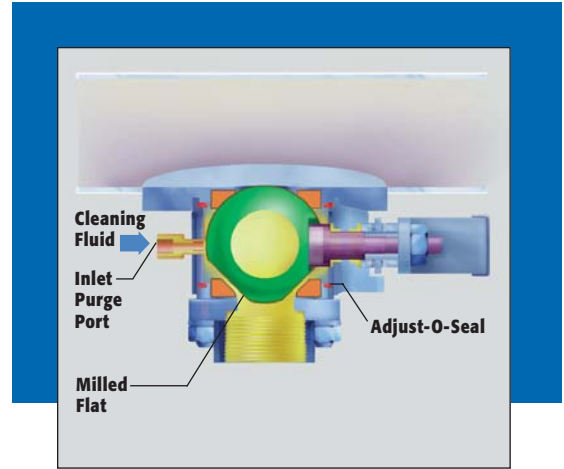
True-Bore means that the I.D. of the ball, seats and end fittings is identical to the I.D. of the tubing. There are no pockets or dead space in the through path, and no temperature fluctuations or pressure drops caused when media flows from tubing through a reduced port ball valve or a full-port ball valve.

True-Bore is standard to all Igenix® Two-Way and Igenix Multi-Port valves, and optional in other PBM valves.



Cylindrical Radius Pads

Cylindrical radius pads are designed to conform to the pipe, tube or tank radius of a specific application. PBM's pad can be welded in such a manner that the I.D. is continuous – with minimal dead space.



Clean-In-Place Capability

Certain PBM valves provide CIP capability in applications where material can become trapped in the body cavity or where it may be necessary to sanitize the valve with steam or a cleaning agent. These valves have a combination of purge ports and milled flats designed to suit specific application needs.

The Adjust-O-Seal feature provides simultaneous upstream and downstream sealing – permitting CIP without process interruption.

CIP is an option on select PBM valves.



Body Cavity Fillers

Body cavity fillers are designed to fill the cavity of the valve between the body and the ball. Cavity fillers minimize problems with trapped fluid in the valve body that can contaminate the process or prevent smooth operation of the valve.

Body Cavity fillers are an option on most PBM valves.

For Your Special Applications

Innovative Solutions

Fabflex valve manifolds are space-saving pipe and valve configurations designed to accommodate special applications in the pharmaceutical, specialty chemical, biotech, semiconductor, cosmetics, and food industries.

Innovative Design

PBM's Fabflex manifolds can be shipped in lengths up to 18' and in a variety of diameters. They can be equipped with multiple valves, all supplied to match each customer's configuration. The valves can then be attached to piping or tubing and used as inlets and outlets in the process. To accommodate process expansion, PBM manifolds can also be provided with blank valve pads welded in place for future connections.

Multiple Valve Options

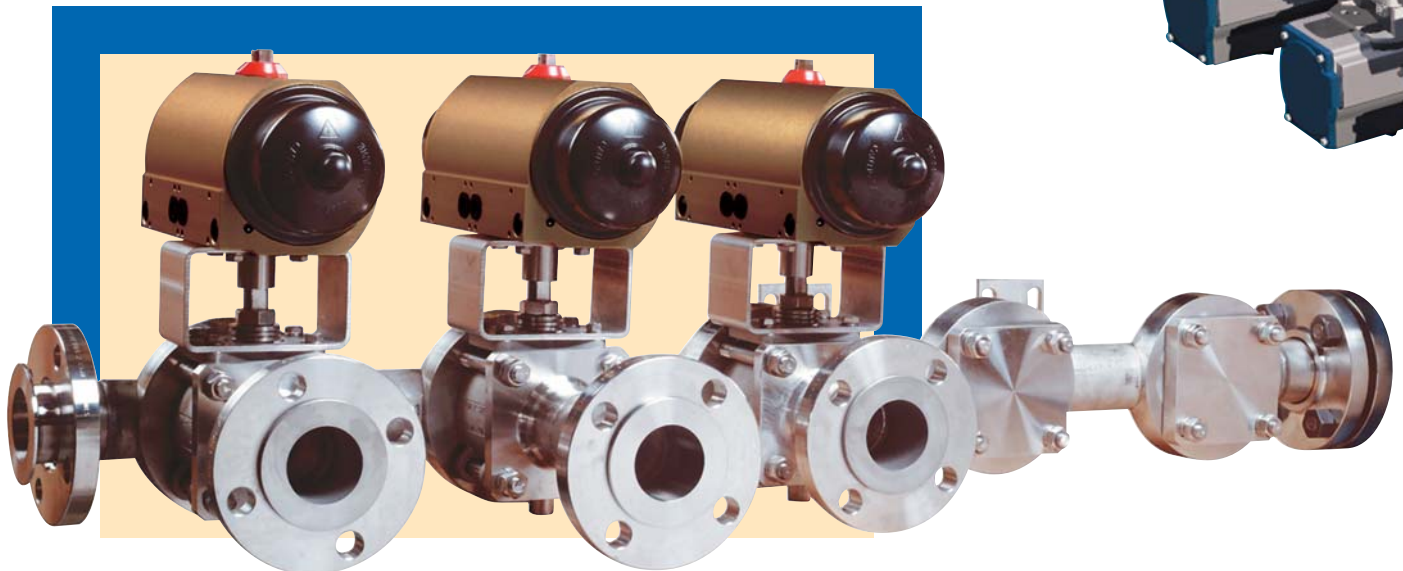
PBM ball valves include industrial, sanitary, steam, or temperature swing options to suit a variety of applications. Manifold valves can be provided as manual or actuated and in an array of materials and sizes. PBM's valve stems accommodate Direct Mount Actuation for accurate actuator to valve alignment and increased cycle life. This engagement between the stem and the ball is well-suited for high torque applications.

Single Unit Delivery

PBM delivers each manifold assembly as a single unit. This minimizes the need for individual onsite valve installation and reduces overall installation time.

100% Tested

Each individual valve, as well as the entire manifold assembly, is completely tested before leaving the factory to ensure adherence to customer specifications and proper performance. This testing reduces the need for time-consuming onsite testing.



Minimized Dead Space

PBM custom fits and welds pads on each manifold to minimize the amount of dead space between the ball and the manifold header. These specially designed pads make PBM manifold assemblies suitable for sanitary applications as well as those applications where process media could become trapped and contaminate the process.

Easy Maintenance

When supplied with PBM's newest Series 5 ball valves, the manifolds offer the benefit of easy maintenance. PBM Series 5 ball valves feature a lift out/swing out design that allows the seats and seals to be replaced quickly and easily inline, reducing overall maintenance time.

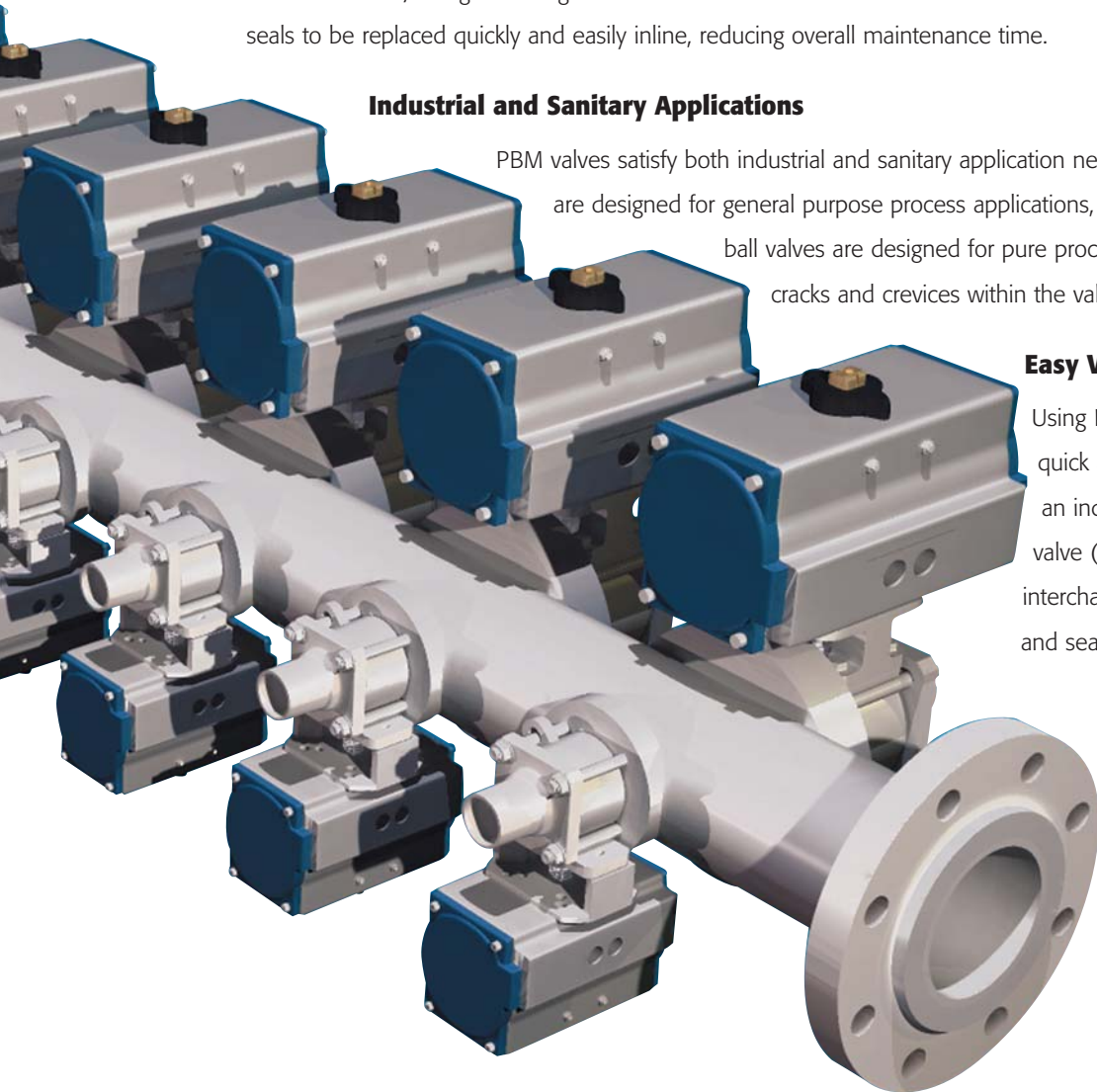


Industrial and Sanitary Applications

PBM valves satisfy both industrial and sanitary application needs. PBM's industrial valves are designed for general purpose process applications, while PBM's Igenix® sanitary ball valves are designed for pure process applications, where cracks and crevices within the valve need to be minimized.

Easy Valve Conversion

Using PBM's Series 5 valves allows quick and easy conversion from an industrial valve to a sanitary valve (and vice versa) using interchangeable end fittings, balls, and seats.



PBM Actuators Complete the Solution

PBM offers a selection of pneumatic and electric actuation packages. Most PBM valves are designed to accept Direct Mount Actuation that utilizes the valve stem as an integral part of the actuator drive. This design provides improved cycling life and performance, while reducing the total package profile. Direct Mount Actuation also eliminates the need for additional brackets or extensions.

PBM Direct Mount Actuation includes a stainless steel bracket and insert as standard. 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 16,500 in.-lb.
- 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, IS)
- Position monitors with mechanical or proximity switches
- Pneumatic and Electro-Pneumatic Positioners



It is our policy to
listen to our customers and focus on their needs,
to **produce** and market high quality products at competitive prices,
to **meet** our customers' delivery requirements
to concentrate on **solving** fluid control and application problems,
and to provide **uncompromising** service.



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