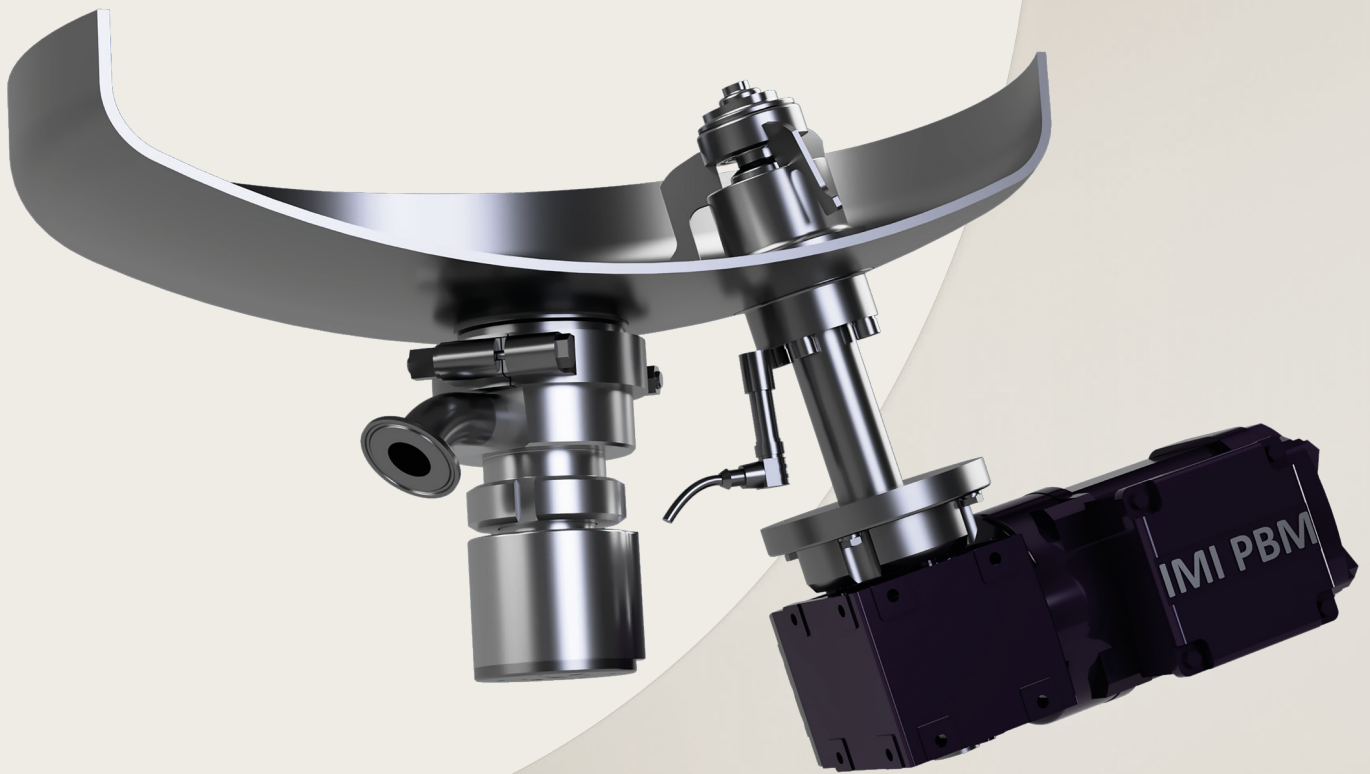


**Process
Automation**

IMI PBM



Igenix® Tank Valve Solutions for Bioreactors



Breakthrough
engineering for
a better world

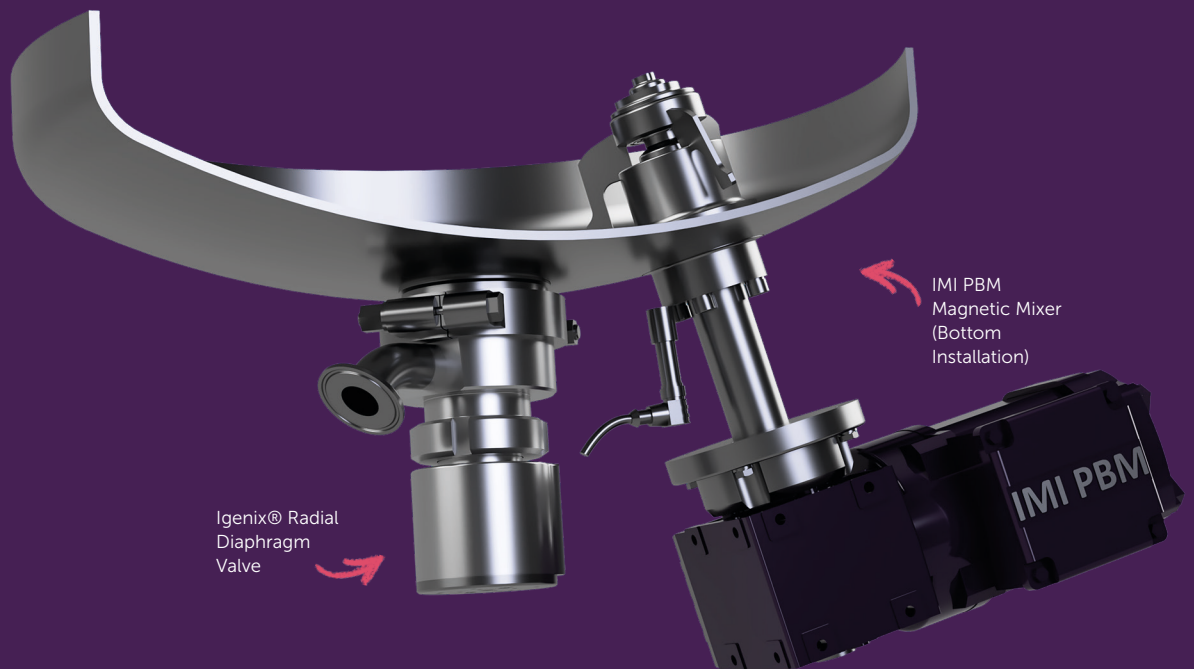
IMI PBM Igenix®

Unique Tank & Vessel Solutions

We Provide the Best of Both Worlds
Clean. Reliable. Simple. Versatile.

With today's demanding process requirements, IMI PBM offers the best of both worlds with outlet and mixing capabilities. This ideal combination offers customers optimal mixing technology to eliminate sheere and improve process yields alongside the Igenix® Radial Diaphragm Valve, focusing on complete drainability.

Using precision and state-of-the-art production methods, you can be assured the mixing of your process and discharge is handled with the utmost sensitivity, complete care and optimal drainability. These solutions also deliver user friendly maintenance reduction.



IMI PBM Magnetic Mixer - *Powered by PRG*

Bottom Installation

Materials

316L (1.4435), EPDM
+ Further materials available on request

Surfaces

Standard $Ra \leq 04 \mu m$ e-polished
+ Higher quality available on request

Sealing System

Hermetically sealed (aseptic flange connection, welded flange, plug-in flange)

Certificates/Conformities

FDA, EC1935, 3.1 GMP-compliant
EHEDG-compliant, weld seam documentation, USP class VI, ASME

Magnetic Mixer Special Features

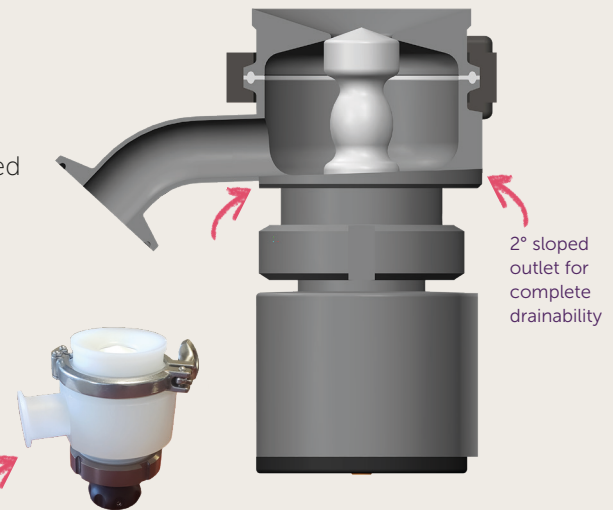
- ✓ No more worries about dry running: Possibility of dry running for up to two hours during draining the tank
- ✓ The magnetic bearing enables a number of special features
- ✓ Easy cleaning: CIP and SIP cleaning possible thanks to the hygienic design
- ✓ Hygienic design: Certified cleanability thanks to riboflavin test conducted by a third party
- ✓ Simplest process integration: There is no need for a supply system
- ✓ Low maintenance and maximum reliability: simple maintenance and long service life due to few wearing parts and a robust design
- ✓ Hermetically closed system

Igenix® Radial Diaphragm Valves

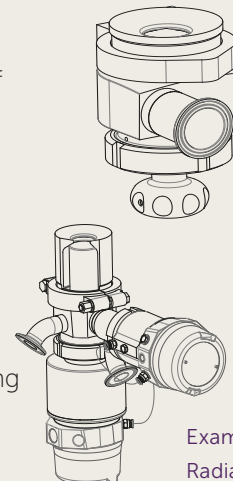
Our separate and unique weld pad is designed and machined for complete proven pad drainability. Detached from the body by a standard hygienic clamp, these weld pads can ship early for faster/easier installation. Our sloped internal body and "fold under" diaphragm facilitates complete drainage. The outlet can be orientated in any position, versus a fixed outlet only option.

The IMI PBM Igenix® Radial Diaphragm Valves have multiple engineered configurations and are built with our tested and proven design - offering customers clean, reliable, simple and versatile solutions.

Polymer Igenix® Radial Diaphragm Valve



- ½" to 4" (DN15 - DN100)
- RDV Polymer 1" to 2" (DN25 - DN 50)
- 45° and 2° sloped outlet, clamp/weld connections for complete drainability
- Pressure rating 175 psi/12 bar
- Standard finish 15 Ra with EP (BPE SF4)
- Optional Satellite Valve, purge port & tank connections available
- Body materials - Stainless Steel 316L, Hastelloy® C-22®, AL6XN™, & others; weld pads - any material
- Platinum cured Silicone or V-TEF™ (4" (DN100) only) diaphragms
- Interchangeable manual and pneumatic actuators
- Full material traceability and documentation package
- Exceeds performance requirements of ASME-BPE testing
- Optional limit switch including AS-Interface, DeviceNet, Foundation Fieldbus and Modbus
- Approved CRN
- Weld pads can ship early, which improves tank fabrication schedule
- Chill Block available to facilitate welding



Examples of Igenix® Radial Diaphragm Configurations

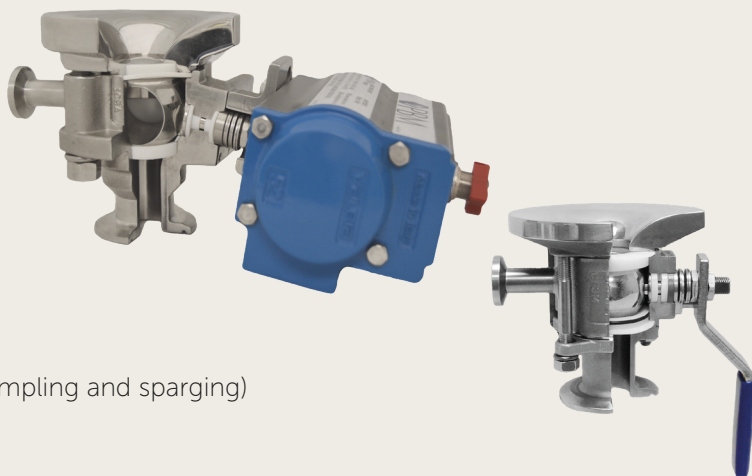
Why Choose IMI PBM?

Drainability. Cleanability. Reliability.

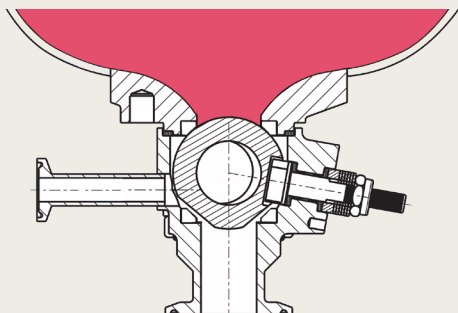
Our Tank Outlet Valves are proven solutions engineered for demanding applications. Our valves eliminate dead leg at the bottom of the tank and have unobstructed flow; emptying the tank quickly. The Adjust-O-Seal® feature provides upstream/downstream sealing to allow the body cavity to drain through purge ports or downstream piping/tubing. Weld pad designs will fit most tank configurations.

High Quality Advantages

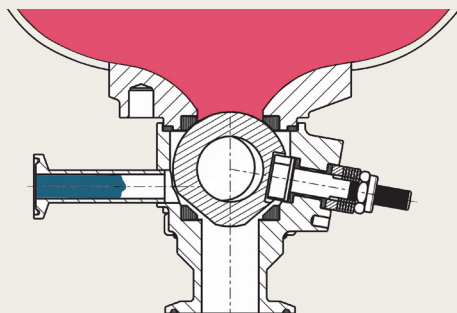
- **Adjustable Sealing Technology - Upstream Sealing**
Ideal for vessels functioning in a wide range of operating pressures; reduces costly maintenance
- **Multiple Cavity Management Options**
Drain, flush or clean the body cavity
- **Fewer Process Interruptions**
Versatile standard and custom pad designs
- **Unique Solutions**
Wide range of customizable designs (ie. spray balls, sampling and sparging)



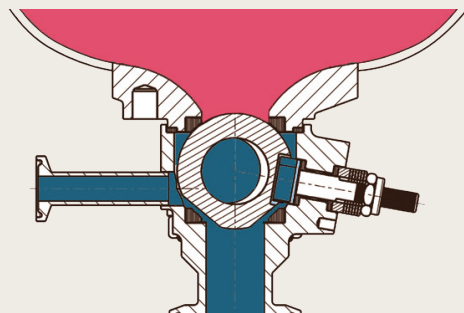
Clean, Purge Valve
- Closed Position



Steam/Cleaning Solution
- Enters Purge Port



Solution enters around body
and down through flats



Flush Tank

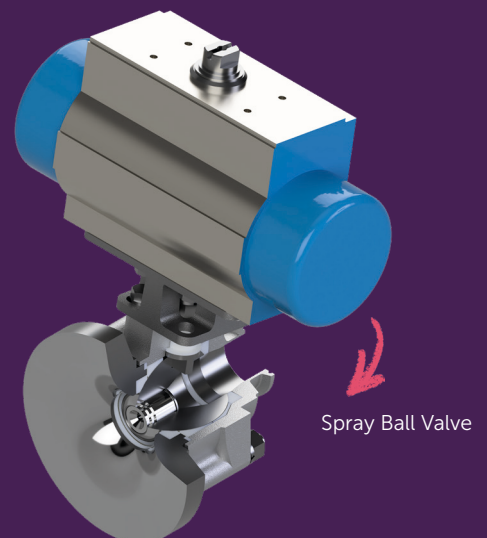
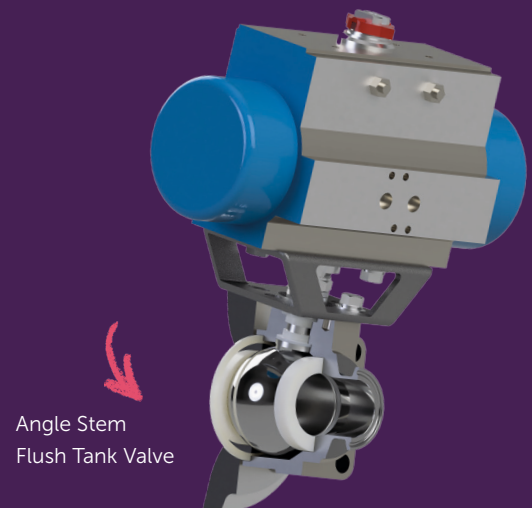
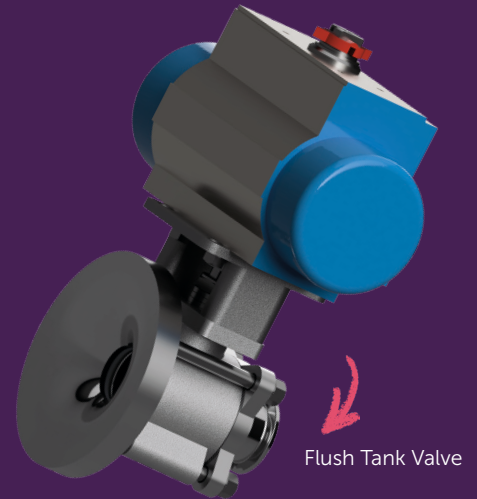
- 3-piece "swing out" body design
- Sanitary and Industrial = True Bore®
- Valves are rated to full vacuum
- Upstream/downstream bubble tight sealing allows valve body cleaning/draining
- Pad radius facilitates efficient drainage and reduces pocket area above ball
- Standard live-loaded stem assembly
- Direct mount actuation available
- API 607 Fire Test Qualified options available
- Accommodate any special vessel configurations: dished, flat, ellipsoidal, jacketed, conical or spherical
- Adapt to competitors weld pads

Angle Stem Flush Tank

- 2-piece design
- Outlet connections in both sanitary and industrial
- Designed for applications where automation may interfere with tank head or jacket
- Pad radius facilitates efficient drainage and reduces pocket area above ball
- Valves are rated to full vacuum
- API 607 Fire Test Qualified options available
- Accommodate any special vessel configurations: dished, flat, ellipsoidal, jacketed, conical or spherical
- Adapt to competitors weld pads

Spray Ball

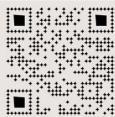
- Assist in cleaning agitator blades or other vessel mixing equipment
- Pads mounted virtually anywhere on vessel using radius pad
- Eliminates dead leg
- Customer selects nozzle spray patterns to fit application
- Reduces cleaning time and consumption of CIP



IMI operates four global centres of technical excellence and a sales and service network in 50 countries, as well as manufacturing capability in Brazil, China, the Czech Republic, Germany, India, Mexico, the UK and the USA.

Supported by distributors worldwide.

For further information, scan this QR code or visit pbmvalve.com or imiplc.com/process-automation



Process Automation

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Due to our policy of continuous development, IMI reserves the right to change specifications without prior notice.

IMI_PBM_IGENIX_TANK_VALVE_SOLUTIONS_RB25

