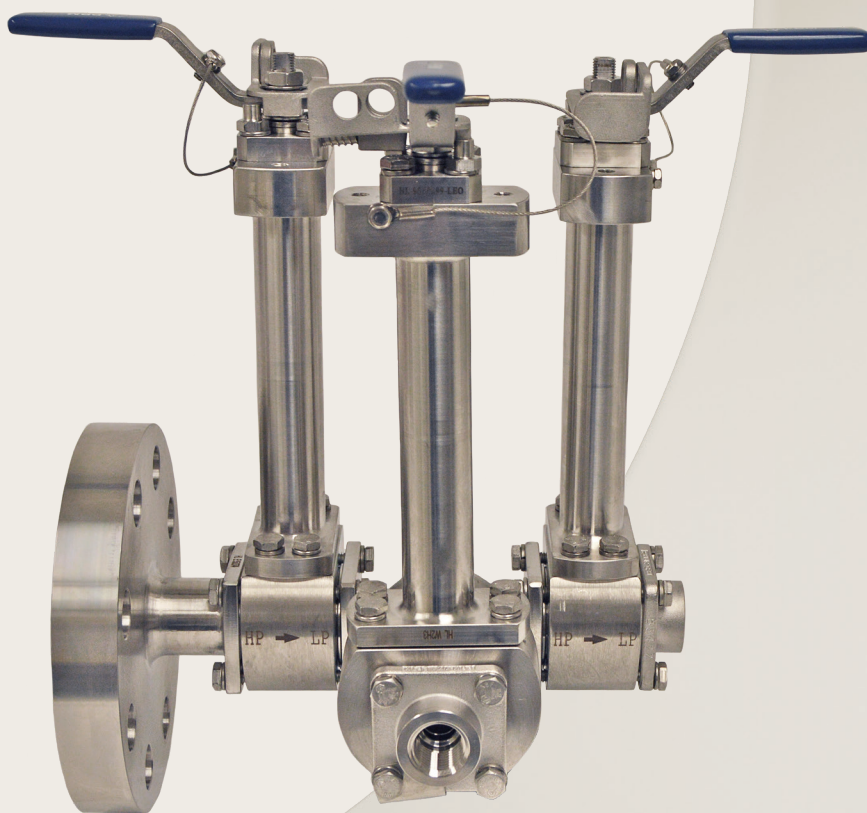


**Process
Automation**

IMI PBM



Cryogenic Valve Solutions

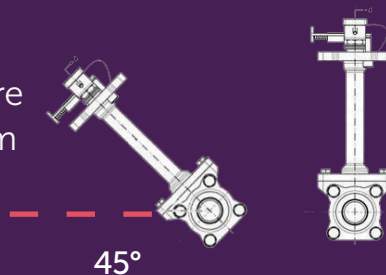


Breakthrough
engineering for
a better world

Specifically Designed for Cryogenic Applications

IMI PBM Cryogenic Valves have a unique design that provides superior performance through cooling and heating cycles. Our valves have been shown to meet leakage criteria per MSS SP-134.

Cryogenic Valves are optimally oriented with the stem 90° from the horizontal plane. Our valves are capable of operating with the stem oriented as low as 45° above the horizontal plane.

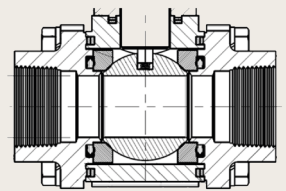


What Makes Our Cryogenic Valves Work?

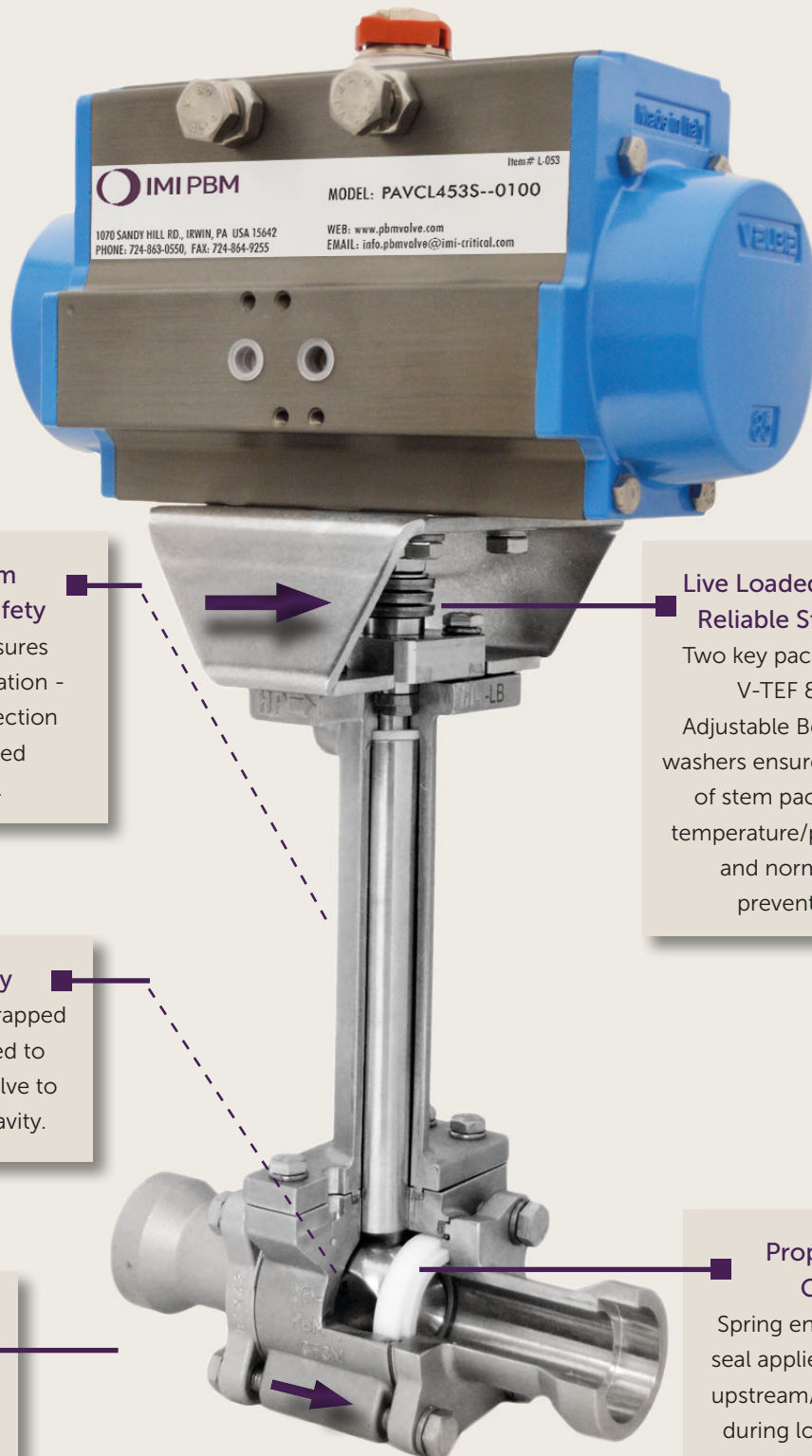


Features

An extended bonnet with an upper set of live loaded stem packings. As metal shrinks it keeps pressure on seals as temperature goes through cooling and heating cycles. The vented ball allows explosive gas expansion to vent upstream.



- 2-Way/3-Way manual and automated valves
- Sizes 1/2" to 6" (DN15 - DN150) - full port
- Temperatures from 400°F (205°C) down to -423°F (-253°C)
- Uni-directional flow and vented ball
- Pneumatic or electric automation available
- Cleaned for oxygen service
- Quarter turn operation
- Fire Tested qualified to API 607 (ISO 10497:2010)
- Designed and tested in accordance with ASME B31.1 and B16.34.
- Materials of construction: Stainless Steel 316/316L, other materials available as Fire Safe design only
- Pressures to 1440 psi CWP / 49.6 bar (ANSI 600# class) (Above 1440 psi / CWP available)
- V-TEF™ seats/Graphite seals, internal and external grounding
- Optional API-622 Low-e Packing (cannot be LOX cleaned)
- Meets European PED and ATEX standards
- Locking lever handle, optional oval locking handwheel, or manual gear operator



Keyed Ball & Stem for Maintenance Safety

Keyed connection ensures proper assembly orientation - ball, stem and flow direction alignment determined by external visual.

Live Loaded Packing for Reliable Stem Sealing

Two key packing materials:
V-TEF & S-TEF™

Adjustable Belleville/Spring washers ensure proper loading of stem packing through temperature/pressure cycles, and normal wear to prevent leakage.

Vented Ball for Safety

Prevents liquid from being trapped inside the cavity; positioned to high pressure side of the valve to equalize pressure in ball cavity.

Extended Socket Weld Ends [Optional]

- Welding without disassembly
- Save fabrication time & money
- Minimize fabrication errors
- Maintain factory warranty

Proprietary Seat Gasketing

Spring energized seat-back seal applies pressure to both upstream/downstream seats during low pressure usage and temperature fluctuations to ensure a tight seal.



Testing & Documentation

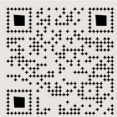
AVAILABLE UPON REQUEST

- PMI (Positive Material Identification)
- LP (Liquid Penetrant)
- Magnetic Particle Examination
- Radiographic Examination
- Ultrasonic Examination
- Standard LOX Assembly

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.

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