Beverage dispense valves
Robust, flexible and compact

Corrosion resistant
Insensitive to calcification
Manifold solutions
Solenoid changeable without tools (Click-on®)
Engineering GREAT Solutions
IMI Precision Engineering is a world-leader in fluid and motion control. Building close, collaborative relationships with our customers, we gain a deep understanding of their engineering needs and then mobilise our resources and expertise to deliver distinctive products and solutions.

Wherever precision, speed and engineering reliability are essential, our global footprint, problem-solving capability and portfolio of high performance products enables us to deliver GREAT solutions which help customers tackle the world’s most demanding engineering challenges.

> **Reliability**
We deliver and support our high quality products through our global service network.

> **High performance products**
Calling on a world-class portfolio of fluid and motion control products including IMI Norgren, IMI Buschjost, IMI FAS, IMI Herion and IMI Maxseal. We can supply these singly, or combined in powerful customised solutions to improve performance and productivity.

> **Partnership & Problem Solving**
We get closer to our customers to understand their exact challenges.
Valves for fully automated coffee machines

The IMI Buschjost compact valve series offers a number of advantages in fully automatic professional coffee machines. They guarantee long-term, high-quality performance with significantly decreased maintenance costs. The solenoid actuated valves comprised of high performance plastics have replaced the metal valves and ensure perfect enjoyment. Permitted according to NSF, FDA and BfR, they reliably control the cold water, hot water, steam and the necessary cleaning processes.

The highlight is their robust design, which maintains a permanently high output under all conditions. The solenoid valves must be resistant to all media. This specifically applies to water - water quality can vary considerably globally. Various degrees of hardness and calcification, and the isolated occurrence of chlorides stress the components. The solenoid valve materials and material combinations are perfectly designed to meet the various requirements and ensure the required corrosion resistance, high reliability and therefore a long service life. In addition, the low-maintenance valve design extends the necessary service intervals to 24 months in order to guarantee flawless function.

Product highlights:

> Reduction in the number of fittings when using valve chains
> Reduction of potential leakage points
> Corrosion resistant & increased service life
> “Plug and use” concept – quick installation of modules (up to 7 valves can be linked)
> Glow wire resistant acc. to IEC/EN 60695
> Use of approved wetted materials in accordance with NSF, FDA, and BfR
> VO (EG) 1935/2004
> UL recognized coils available on request

(Example)

Designation: 3/2-way solenoid valves
Operation: directly operated
Connection: manifold design / Interface
Nominal Diameter: 1.2 ... 4.5 mm
Operating pressure: 16 bar max. (232 psi), concerning on the nominal diameter
Media temperature: 0 ... +125°C (+32 ... +257°F)
Ambient temperature: 0 ... +50°C (+32 ... +122°F)
**Options**

**Solenoids**

- "The Power Pack"
- "The Compact"

**Performance**

- 2/2-way valve
- 3/2-way valve
- Pressure Relief valve

**Execution**

- Single valve
- Interlinkable
- Interface

**Connections**

- Compression fitting
- Tube Push-in fitting
- Hose connectors
- Interface
Robust, flexible and compact

Single or interlinkable plastic valves are used in a fully automatic coffee machine for the multiple applications and according to the various water paths. They also provide for a significantly lower temperature loss of the heating system. From the first touch of a button to the last cup: The coffee is always at the right temperature and delicious.

With interlinkable valves, water distribution takes place via a system that is easy to configure. This reduces the piping expense to an absolute minimum. The space requirement decreases and the construction is more compact. This simultaneously increases flexibility as additional functions are able to be integrated in the coffee machine. The user can also reduce their inventories both in the factory and in service. Interlinking allows inventories of fittings, pipes, sealing material, etc., which would be required for a single valve assembly, to be saved.

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Connection</th>
<th>ND (mm)*</th>
<th>Material</th>
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<td></td>
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<td>Threaded</td>
<td>Compression fitting</td>
<td>Tube Push-in fitting</td>
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<td>2/2-way single valve</td>
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<td>2/2-way single valve (interlinked)</td>
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<td>2/2-way Safety / Relief valve</td>
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<td>Customized solutions</td>
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<td>4-fold manifold</td>
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* NPT/imperial size ports available on request
** With rectifier
Applications

- Soft drinks
- Drinking water
- Steam oven
- Baking oven
- Dishwasher
- Coffee machine
  (Fully automatic & semi automatic)
- Drinking water dispenser
- Vending machines
Beverage dispense valves

- Cold & hot water devices
- Soft drink machines
- Cream- & ice machines

- Coffee
- Tea
- Ice cream
IMI Precision Engineering operates four global centres of technical excellence and a sales and service network in 50 countries, as well as manufacturing capability in the USA, Germany, China, UK, Switzerland, Czech Republic, Mexico and Brazil.

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