



# Fluid Control

Our product brands:

IMI Buschjost

IMI FAS

IMI Herion

**PET**

**Solutions for linear and rotary  
bottling equipment**

Breakthrough  
engineering for  
a better world



Contents	Introduction	2
	PET bottling	3
	Blowing blocks	4
	Air supply units & air recovery systems	5
	Precision equipment components for every need — our portfolio of products	6
	Standard product range	10

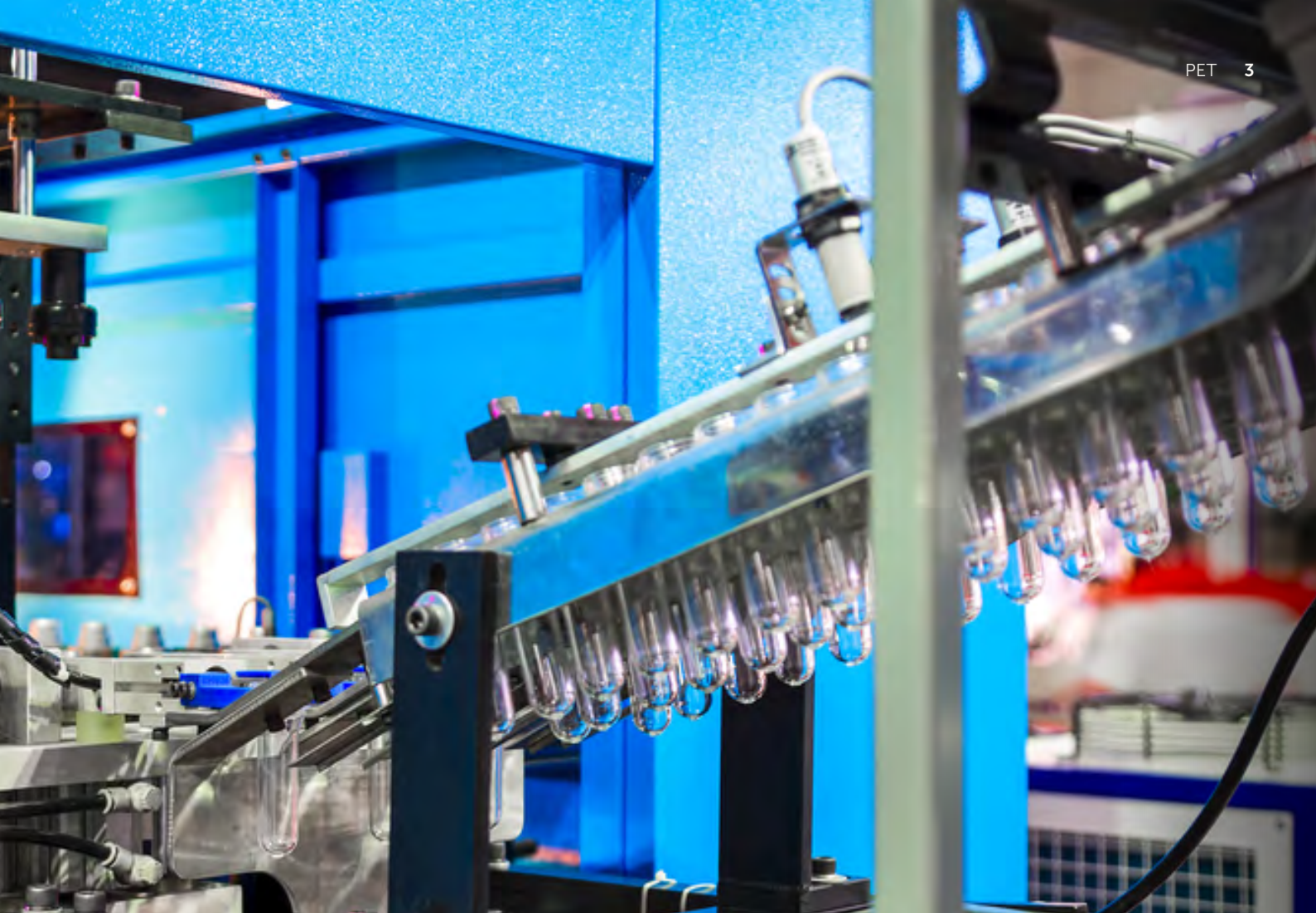
# Breakthrough engineering for a better world

We create breakthrough solutions which accelerate the safety, reliability and performance of everyday processes. Our valves and complete system solutions control liquids and gases, enabling machine builders to improve design functionality and keep safety and sustainability at the forefront of innovation.

For over 80 years, we have helped our customers improve the reliability and efficiency of their machines for diverse end markets. Working in close customer partnership, we continuously push the boundaries of technology, offering a wide selection of components and tailored solutions. Meeting equipment manufacturers' needs includes everything from helping provide traceability for consumers, to reducing waste in critical resources and delivering a premium cup of coffee.

Through flexible, scalable and agile innovation, we help our customers solve their current challenges and create competitive advantage for the future.

Breakthrough engineering you can count on.



# PET bottling

Building on three decades of PET engineering excellence, we remain a pioneering force in this sector, constantly driving performance and reliability improvements. Our patented plastic piston technology and experience in valve positioning allows us to reduce dead space volume and increase productivity.

We deliver PET expertise through our global design centres, demonstrating our commitment to research, design innovation and high quality manufacturing. We are continuously engaged in the development of new products – demonstrated by our unique patented piston technology and forthcoming developments in blowing solutions.

We also have a global manufacturing footprint, meaning we're able to deliver on even the most demanding of international projects (and we have the global customers to prove it).

We have the products, the experience and the expertise. And it's all available to you.

Find out more  
[www.imiplc.com](http://www.imiplc.com)

# Blowing blocks: improving efficiency and flow performance

Our patented plastic piston technology and experience in valve positioning allows us to reduce dead space volume and increase productivity (we are currently pushing the production boundaries beyond 2,200 bottles per hour per cavity on some machines).

Our innovation and design excellence gives us the edge, and also gives our customers the edge too.

## Giving you competitive advantage

- Productivity – our pioneering technologies help maximise flow performance and bottle output
- Cost savings – we're setting the standard for air recycling and minimising dead space volume, and that means maximising efficiencies for you
- Control – integrated functions – including P1, P2, Exh, air recovery, compensation valves, capping cylinder and valves – all provide greater operational versatility



# Air supply units & air recovery systems: large flows, precision accuracy and machine reliability

IMI offers the whole 'air' package, from 7 bar standard pneumatics and 20 bar pre-blowing lines (P1), through to a comprehensive suite of 40 bar lines (P2). It is in P1 and P2 that we have particular expertise, ensuring proven reliability – whatever your requirements in terms of size, capacity or flow. Our unique modular approach means many of these technologies are available as 'plug & play', resulting in fast and cost-effective modifications.

Our aim is to meet and exceed your high standards and expectations.

## Giving you competitive advantage

- Cost savings – full air recovery to your 7 and 20 bar lines helps generate efficiencies
- Full compliance – our technology delivers exceptional regulation accuracy
- Flexibility – compact and highly versatile 'plug & play' systems for every need
- Increased output – we are able to deliver a high flow to increase your maximum bottle output
- Electronic proportional options – this technology allows you to change pressures quickly and remotely



# Precision equipment components for every need

Our product inventory gives you access to a world-class range of high-quality, precision engineered blowing blocks and air preparation products. Covering everything from standard pneumatics and components to 40 bar check valves and silencers, these are all available with a quick turnaround, and come with exceptional technical back-up and support. All products are delivered ready assembled.

●● We'll help keep your production line moving, and improving. ●●

## Our portfolio of products includes:



### TRI-Blow Block AVSP-L-3V\*\*

- **Medium:** Compressed air (purity class 3.4.3 acc. to ISO 8573-1:2010)
- **Medium temperature:** +5 ... +35°C
- **Ambient temperature:** +10 ... +50°C
- **Operating pressure:** 2 ... 40 bar
- **Pilot air pressure:** 6 ... 7 bar
- **Operating voltage:** 24 V d.c.
- **Power consumption:** 2W
- **Electric connection:**  
AMP 2P 9.4 mm (C-industrial)



### Four Block Valves AVSP-L-4V\*\*

- **Medium:** Compressed air (purity class 3.4.3 acc. to ISO 8573-1:2010)
- **Medium temperature:** +5°C ... +35°C
- **Ambient temperature:** +10°C ... +50°C
- **Operating pressure:** 2 ... 40 bar
- **Pilot air pressure:** 6 ... 7 bar
- **Operating voltage:** 24 V d.c.
- **Power consumption:** 2W
- **Electrical connection:**  
AMP 2P 9.4 mm (C-industrial)



### Five Block Valves SPCH/170096

- **Medium:** Compressed air (purity class 3.4.3 acc. to ISO 8573-1:2010)
- **Medium temperature:** +5°C ... +35°C
- **Ambient temperature:** +10°C ... +50°C
- **Operating pressure:** 1 ... 40 bar
- **Pilot air pressure:** 5 ... 7 bar
- **Operating voltage:** 24 V d.c.
- **Power consumption:** 2W
- **Electrical connection:**  
AMP 2P 9.4 mm (C-industrial)



**Six Block Valves**  
**AVSP-R-6V\*\***

- **Medium:** Compressed air (purity class 3.4.3 acc. to ISO 8573-1:2010)
- **Medium temperature:** +5°C ... +35°C
- **Ambient temperature:** +10°C ... +50°C
- **Operating pressure:** 2 ... 40 bar
- **Pilot air pressure:** 6 ... 7 bar
- **Operating voltage:** 24 V d.c.
- **Power consumption:** 2W
- **Electrical connection:** AMP 2P 9.4 mm (C-Industrial)



**Six Block Valves**  
**SPCH/160107**

- **Medium:** Compressed air (purity class 3.4.3 acc. to ISO 8573-1:2010)
- **Medium temperature:** +5°C ... +35°C
- **Ambient temperature:** +10°C ... +50°C
- **Operating pressure:** 1 ... 40 bar
- **Pilot air pressure:** 5 ... 7 bar
- **Operating voltage:** 24 V d.c.
- **Power consumption:** 2W
- **Electrical connection:** AMP 2P 9.4 mm (C-Industrial)



**Six Block Valves**  
**SPCH/200001**

- **Medium:** Compressed air (purity class 3.4.3 acc. to ISO 8573-1:2010)
- **Medium temperature:** +5°C ... +35°C
- **Ambient temperature:** 0°C ... +50°C
- **Operating pressure:** 3 ... 40 bar
- **Pilot air pressure:** 5 ... 8 bar
- **Operating voltage:** 24 V d.c.
- **Power consumption:** 2W
- **Electrical connection:** AMP 2P 9.4 mm (C-industrial)



**Starbloc**  
**SPCH/140001**

- **Medium:** Compressed air (purity class 3.4.3 acc. to ISO 8573-1:2010)
- **Medium temperature:** +5°C ... +35°C
- **Ambient temperature:** +10°C ... +50°C
- **Operating pressure:** 1 ... 40 bar
- **Pilot air pressure:** Maximum 7 bar
- **Operating voltage:** 24 V d.c.
- **Power consumption:** 2W
- **Electrical connection:** AMP 2P 9.4 mm (C-industrial)



**Linbloc**  
**SPCH/140031**

- **Medium:** Compressed air (purity class 3.4.3 acc. to ISO 8573-1:2010)
- **Medium temperature:** +5°C ... +35°C
- **Ambient temperature:** +10°C ... +50°C
- **Operating pressure:** 1 ... 40 bar
- **Pilot air pressure:** 6 ... 10 bar
- **Operating voltage:** 24 V d.c.
- **Power consumption:** 2W
- **Electrical connection:** AMP 2P 9.4 mm (C-industrial)



**Big Bottle Block Valves**  
**AVSP-B-6V\*\***

- **Medium:** Compressed air (purity class 3.4.3 acc. to ISO 8573-1:2010)
- **Medium temperature:** +5°C ... +35°C
- **Ambient temperature:** +10°C ... +50°C
- **Operating pressure:** 3 ... 40 bar
- **Pilot air pressure:** 6 ... 8.5 bar
- **Operating voltage:** 24 V d.c.
- **Power consumption:** 2W
- **Electrical connection:** AMP 2P 9.4 mm (C-Industrial)



**Big Bottle Block Valves**  
**SPCH/120048**

- **Medium:** Compressed air (purity class 3.4.3 acc. to ISO 8573-1:2010)
- **Medium temperature:** +3°C ... +30°C
- **Ambient temperature:** 0°C ... +50°C
- **Operating pressure:** 2 ... 40 bar
- **Pilot air pressure:** 6 ... 10 bar
- **Operating voltage:** 24 V d.c.
- **Power consumption:** 2W
- **Electrical connection:** AMP 2P 9.4 mm (C-industrial)



**Big Bottle Recover Valves**  
**SPCH/120049**

- **Medium:** Compressed air (purity class 3.4.3 acc. to ISO 8573-1:2010)
- **Medium temperature:** +3°C ... +30°C
- **Ambient temperature:** 0°C ... +50°C
- **Operating pressure:** 2 ... 40 bar
- **Pilot air pressure:** 6 ... 10 bar
- **Operating voltage:** 24 V d.c.
- **Power consumption:** 2W
- **Electrical connection:** AMP 2P (9.4 mm industrial)

## Our portfolio of products includes:



### Dome Loaded Reducing Valve D166

- Flow rate dependent on working conditions (Contact IMI to specify)
- Ø 1" BSPP connections
- Internal Ø 9 mm, 12 mm or 15 mm through the valve
- **Max. inlet pressure:** 50 bar
- **Outlet range:** 0.5 ... 100 bar



### Dome Loaded Reducing Valve D291

- Flow rate dependent on working conditions (Contact IMI to specify)
- Ø 2" BSPP connections
- Internal Ø 20 mm or 25 mm through the valve
- **Max. inlet pressure:** 50 bar
- **Outlet range:** 0.5 ... 100 bar



### Proportional Reducing Valve D366

- Ø 1/4" BSPP connections
- Internal Ø 4 mm through the valve
- **Max. inlet pressure:** 100 bar
- **Outlet range:** 0 ... 100 bar
- 3-way regulator
- **Power supply:** 24 V d.c.
- **Input and output signals:** 4-20 mA or 0-10 V  
CMS e-card – Integrated outlet pressure sensor



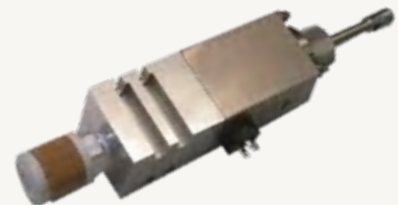
### Proportional Reducing Valve D366

- Ø 1/4" directly flanged version
- Internal Ø 4 mm through the valve
- **Max. inlet pressure:** 100 bar
- **Outlet range:** 0 ... 100 bar
- 3-way regulator
- **Power supply:** 24 V d.c.
- **Input and output signals:** 4-20 mA or 0-10V  
CMS e-card – Integrated outlet pressure sensor



### Spring Loaded Reducing Valve D396

- Ø 2 mm flanged connections
- Internal Ø 2 mm through the valve
- **Max. inlet pressure:** 50 bar
- **Outlet range:** 5 ... 11 bar
- Calibrated permanent leakage



### Solenoid Valve E237

- Ø 8 mm flanged connections
- Internal Ø 8 mm through the valve
- **Max. inlet pressure:** 50 bar
- **Function:** 2/2 NO
- **Power supply:** 24 V d.c. – Hirschmann connector
- Position switch



## Our portfolio of products includes:



### Cooling/Air Recovery Valve

- VSP15203x Series
- 2/2-way valve, normally closed – with integrated check valve
- 24 V d.c./2W, without manual override
- **Operating pressure (min ... max.):** 3 ... 40 bar



### Compensation Valve

- VSP15204x Series
- 3/2-way valve, normally closed
- 24 V d.c./2W, without manual override
- **Operating pressure (min ... max.):** 3 ... 40 bar



### 85360 Series

- Piston valve design
- Indirectly solenoid actuated
- For neutral gases and liquids
- **Fluid temperature:** -20 ... +90 °C
- **Operating pressure:** 0.5 ... 40 bar
- Body in brass (CW617N)



### Check Valve VSP15203x Series

- Check valve (no spring)
- G1/2" ... G1 1/4"
- **Operating pressure (min...max.):** 3 ... 40 bar



### Starbloc with Capping Cylinder A1406-A02

- **Medium:** Compressed air (purity class 3.4.3 acc. to ISO 8573-1:2010)
- **Operating pressure:** 1 ... 40 bar
- **Pilot air pressure:** 5 ... 7 bar
- **Cylinder stroke:** 35±1 mm
- **Cylinder bore:** Ø 63 mm
- **Operating voltage:** 24 V d.c.
- **Power consumption:**  
Pilot valve (4X) 2W,  
Cylinder control valve 5.4W
- **Ambient temperature:** +10° ... +50°C
- **Medium temperature:** +5° ... +35°C



### High Speed Stretch Cylinder HSSC50 Series

- Double acting with adjustable air cushion
- **Bore size:** 50 mm
- **Operating pressure (min ... max.):** 4 ... 8 bar
- **Standard stroke:** 300 mm, 400 mm, 420 mm
- Speed up to 2.4 m/s
- Long cushion option for better reduction of shock and vibration



### High Pressure Silencer T32 Series

- **Port size:** R1" ... R1 1/4"
- Noise reduction up to 35 dBA
- High corrosion resistance
- Compact design
- Easy to maintain

# Standard product range



## Air preparation set Excelon® Plus

- **Fluid:** Compressed air
- **Port sizes:** 1/4", 3/8", 1/2" or 3/4"
- **Thread type:** ISO G or NPT
- **Maximum inlet pressure:**
  - > Guarded polycarbonate bowl 10 bar
  - > Metal bowl 20 bar (17 bar for 1/4" range)
- **Maximum temperature:**
  - > Polycarbonate bowl 60°C
  - > Metal bowl 65°C



## Air preparation set Olympian Series

- **Fluid:** Compressed air
- **Port size:**
  - > BL64G: G1/2"
  - > BL68G: G1"
- **Max. inlet pressure:** 17 bar
- **Pressure range:**
  - > B64G: 0.3 ... 17 bar
  - > B68G: 0.4 ... 17 bar
- **Ambient temperature:** -20°C ... +80°C



## Air preparation set IMI Guardian 49 Series

- Filter, regulator, lubricator and combination units
- Predefined options for ease of ordering
- **Port sizes:** G1/8 to G1/2
- **Operating pressure:** 0.5 ... 8.5 bar
- Flow rate up to 50 l/s for G1/2
- **Ambient/Media temperature:** 0°C ... +60°C
- Integrated gauge reduces mounting time
- Push to lock adjusting knob and bowl cover clip with audible click for increased safety



## Valve Island VR Series

- **Two sizes:** 10 mm and 15 mm widths
- **Flow:** 220 to 270 l/min (VR10), 460 to 590 l/min (VR15)
- **Operating pressure:** Maximum pressure 7 bar (101 psi)
- **Operating temperature:** -5°C ... +50°C (+23°F ... 122°F)
- Up to 24 solenoids
- 24 V d.c. Multipole



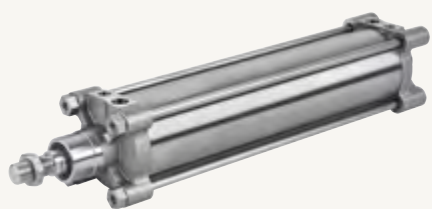
## Solenoid valves IMI Guardian VCB22 Series

- Compressed air, filtered to 40µm, lubricated or non lubricated
- 3/2, 5/2 and 5/3-way directional control valves, solenoid actuated
- **Operating pressure:** 1.5 ... 8 bar
- **Flow rate:** 240 l/min ... 3,350 l/min



## Heavy duty non-return valves S/520, S/521, S/522, S/523, S/524, S/525

- Permits free flow of air in one direction only
- Line mounted
- **Port sizes:** G1/8", G1/4", G3/8", G1/2", G3/4", G1"
- **Operating pressure:** 0.3 ... 16 bar
- **Ambient temperature:** -20°C ... 80°C (standard), -20°C ... 150°C (high temperature)



**Stainless steel ISO standard 15552 cylinder, double acting**  
**ISOLine™ KA/802000/M**

- **Port sizes:** G1/8, G1/4, G3/8, G1/2, G3/4
- **Bore sizes:** 32, 40, 50, 63, 80, 100, 125, 160, 200 mm
- **Standard stroke:** 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500 mm
- **Operating temperature:**  
 -10°C ... 80°C (standard version);  
 0 ... 150°C (high temperature version)
- Double acting with adaptive cushioning system



**ISO standard 15552 cylinder, double acting**  
**IMI Guardian PCA/702 Series**

- **Port sizes:** G1/8", G1/4", G3/8", G1/2"
- **Bore sizes:** 32, 40, 50, 63, 80, 100, 125 mm
- **Standard stroke:** 25, 50, 80, 100, 125, 150, 160, 175, 200, 250, 320, 350, 400, 450, 500 mm
- **Operating pressure:** 1 ... 10 bar
- **Operating temperature:** -5°C ... 70°C



**Compact cylinder, double acting**  
**IMI Guardian CM/71 Series**

- **Port sizes:** M5, G1/8", G1/4", G3/8", G1/2"
- **Bore sizes:** 12, 16, 20, 25, 32, 40, 50, 63, 80, 100 mm
- **Standard stroke:** 25, 10, 20, 25, 30, 35, 40, 45, 50, 75, 100 mm
- **Operating pressure:** 0.5 ... 10 bar
- **Operating temperature:** -5°C ... 70°C



**Push in fittings**  
**Pneufit S Stainless Steel**

- **Operating pressure:** Vacuum ... 15 bar
- **Vacuum:** -750 mm of Hg ie. 99%
- **Operating temperature:**  
 -15°C ... +225°C
- **Tube sizes:** 4, 6, 8, 10, 12 mm O/D

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, Switzerland, the UK and the USA.

Supported by distributors worldwide.

For further information, scan this QR code or visit

[www.imiplc.com](http://www.imiplc.com)



## Fluid Control

Our product brands:

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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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