Labyrinth piston valves
Doubling service life

Increase productivity
Click-on® solenoid
Integrated high-grade bearing surface

Engineering GREAT Solutions
Engineering GREAT solutions through people, products, innovation and service

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.
Its mode of operation is well-known, its industrial applications are diverse: for many years present solenoid valves such as the 85300 series have been among IMI Buschjost’s most sought-after valves. IMI Precision Engineering has been producing valves of this type for over ten years - they are known for their functionality and particular robustness. But of course, even with such tried-and-tested products IMI Precision Engineering has to continually scrutinize.

With respect to the 85300 series, it was the use of valves in the blowing of PET bottles in the drinks industry that prompted a fundamental new development. The cycle times in the production of PET bottles are extremely short and the valve has to cope with an enormous number of switching cycles.

So “Doubling the service life” was the goal that the IMI Precision Engineering engineers set themselves in order to improve the finer points of this seasoned valve. The result was a modified valve in which the PTFE seals used previously were replaced by labyrinth seals and instead of the previous stainless steel piston, a compact piston now features.

Serial production of the new design for the 85300 series was started. New name of the series is 85360. In the medium term the design of the entire product range of solenoid valves will be switched over, in order to further secure IMI Precision Engineerings position as a technology leader in the market.

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**Doubling service life was minimum goal**

- Compact build piston valve
- Functional design
- High flow rate
- Long lifetime
- Piston guided in PTFE rings
- Solenoid interchangeable without tools (Click-on®)
Product highlights

- Valve cover with integrated high-grade bearing surface
- Piston with low-wear labyrinth seal
- Extended life cycle
- Pilot seat with enlarged diameter
- Normally Open version easy to install
**Specification**

- 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)

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Applications

> Energy
Shut-off valves for liquid fuels

> Industrial applications
Injection moulding machines

> Fire protection
Spark extinguishing systems

Options & variations

Explosion proof solenoinds
zones 1, 2 & 21, 22.

NBR, FPM, EPDM, PTFE
> Commercial vehicles
  Emission reduction

> Mechanical Engineering & Plant Constructions
  Drilling machines

> Beverages
  Blowing PET bottles

Butterfly flange

Manual override

Normally open
IMI Precision Engineering operates four global centres of technical excellence and a sales and service network in 75 countries, as well as manufacturing capability in the USA, Germany, China, UK, Switzerland, Czech Republic, Mexico and Brazil.

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