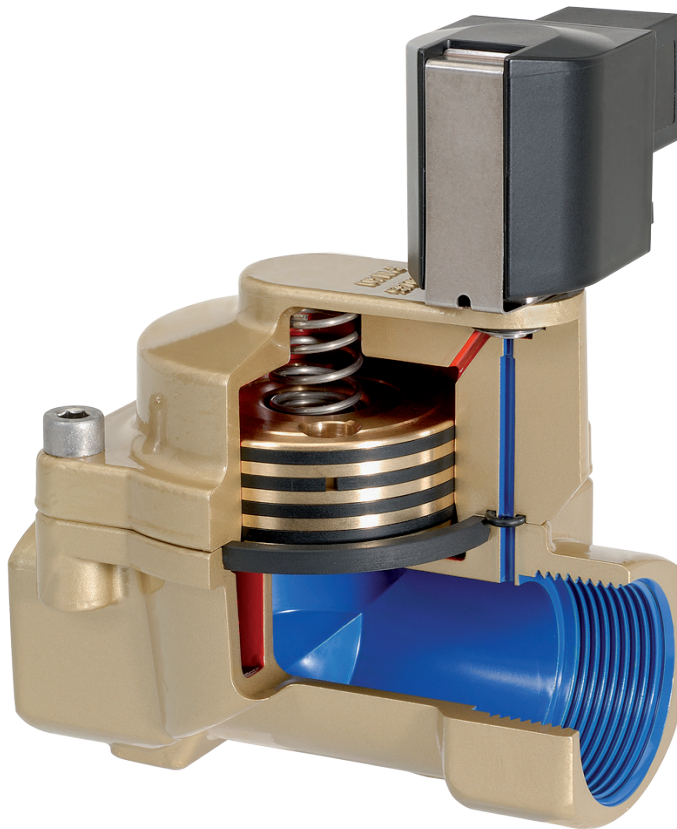


Labyrinth Piston Valves

Doubling Service Life



CONTENTS

Introduction	02
Doubling Service Life	03
Product Highlights	05
Applications	06
Options & Variations	07

Breakthrough Engineering for a Better World

Norgren is part of global engineering organisation IMI plc. IMI is at the forefront of delivering the solutions we need in a changing world and is focused on **creating tremendous value by solving key industry problems** in attractive markets and employing the best.

Norgren has a proud history of creating innovative engineering solutions in precise motion control and fluid technology, and we collaborate with our customers across more than 50 countries in critical areas such as Factory Automation, Material Handling, Rail, Energy, Process Control, Life Science and Commercial Vehicles.

From improving speed, productivity, reliability and efficiency of equipment, to generating significant energy and cost savings, or lowering total cost of ownership across many industries, Norgren's high-quality solutions are designed to help customers pursue progress, achieve new goals and overcome problems.

With market-leading industry expertise, we offer the capability, resources, engineering intelligence and global support infrastructure to tackle the largest project demands.

Our world-class portfolio of fluid and motion control products include Norgren, Bimba, Buschjost, FAS, Herion, Kloehn and Maxseal. Supplied either individually or combined into powerful customised solutions to meet customer needs.

Breakthrough engineering you can count on.

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 Buschjost's most sought-after valves. Norgren 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 Norgren 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 Norgren 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 Norgren's position as a technology leader in the market.

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®)

Doubling service life





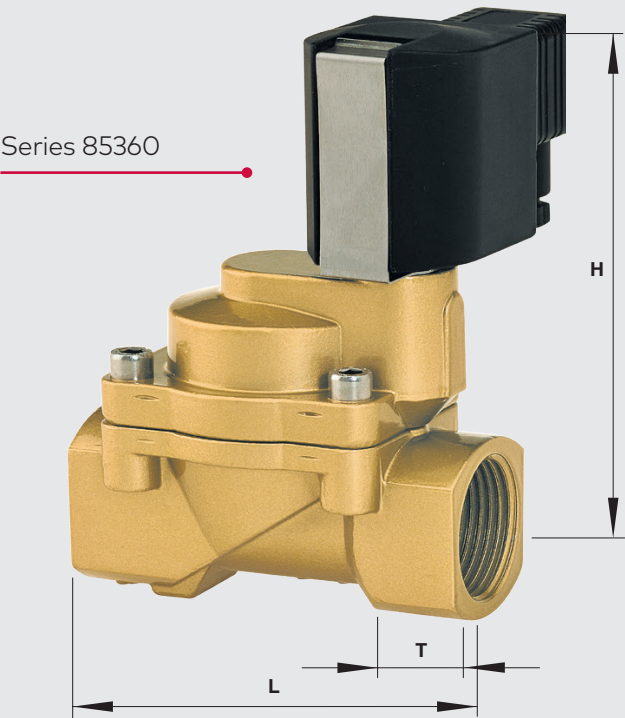
Product Highlights

- » **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)

Part Number	Connection size	ND (mm)	kv-value (Base m³/h)	Weight (kg)	L (mm)	H (mm)	T (mm)
8536000.9151	G 1/4	8	2.2	0.83	60	93.5	12.0
8537000.9151	1/4 NPT						10.0
8536100.9151	G 3/8	10	3.4	0.82	60	93.5	12.0
8537100.9151	3/8 NPT						10.5
8536200.9151	G 1/2	12	4.4	0.85	67	93.5	14.0
8537200.9151	1/2 NPT						13.5
8536300.9151	G 3/4	20	7.0	1.25	80	102.5	16.0
8537300.9151	3/4 NPT						14.0
8536400.9151	G 1	25	10.5	1.70	95	110.5	18.0
8537400.9151	1 NPT						17.0
8536500.9151	G 1 1/4	32	25.0	4.10	132	137.0	20.0
8537500.9151	1 1/4 NPT						17.0
8536600.9151	G 1 1/2	40	27.0	3.85	132	137.0	22.0
8537600.9151	1 1/2 NPT						17.0
8536700.9151	G 2	50	43.0	5.60	160	151.5	24.0
8537700.9151	2 NPT						17.5



AC & DC

↓

24 V ... 230 V

↓

Standard & Ex

Applications

Energy
Shutt-off valves for liquid fuels



Industrial applications
Injection moulding machines



Fire protection
Spark extinguishing systems



Commercial vehicles
Emission reduction



Mechanical Engineering & Plant Constructions
Drilling machines



Beverages
Blowing PET bottles

Options & Variations

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

NBR, FPM,
EPDM, PTFE

