

Water Hammer Protection as Standard



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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.

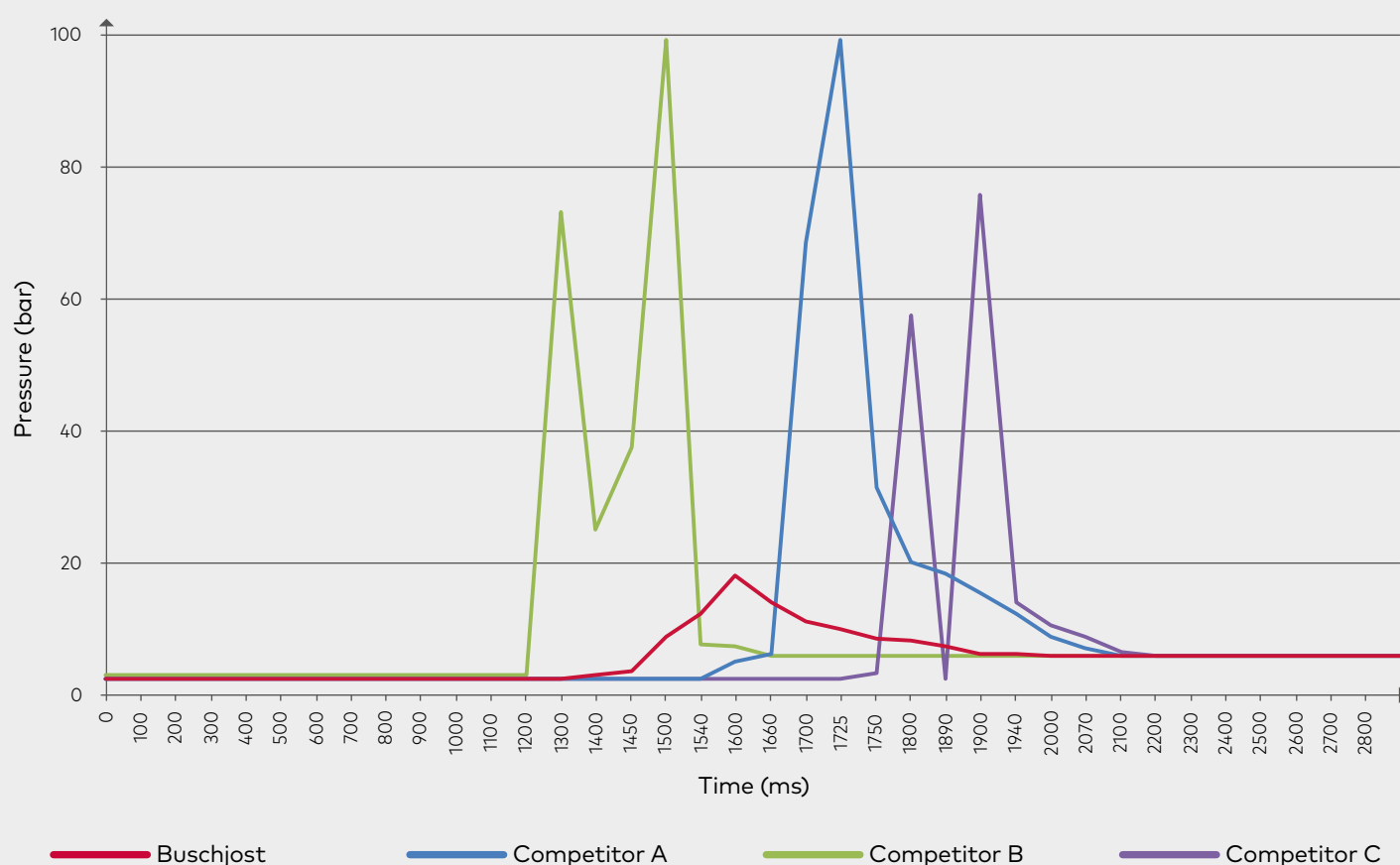
Buschjost leads the industry with a wide range of Buschjost pilot operated solenoid valves. Water hammer prevention is a standard feature.

Water hammer, also called fluid hammer or hydraulic shock, creates a pressure spike in a pipe system that can damage seals, gauges, pipes and fittings – virtually anything upstream.

Norgren addresses the problem of water hammer at the source – the valve. Our superior Buschjost solenoid valves are proven to reduce pressure spikes by more than 80%, compared to the competition.

Benefits of Buschjost valves

- » Reduce pressure spikes up to 15 times less than the competition
- » Reduce system costs by eliminating:
 - Pressure regulators
 - Shock absorbers
 - Check valves
 - Accumulators
- » Helps optimize total cost of ownership (TCO)

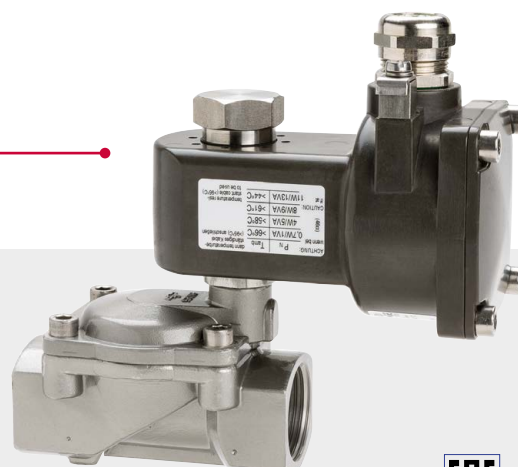


Buschjost Valves Stop Water Hammer – Overview

Series 82730

- » 2/2-Way valves – Normally closed and open
 - » For slightly aggressive gases and liquid fluids
 - » Stainless steel
 - » 1/4 ... 2 (ISO G/NPT) port size options
 - » Maximum pressure ratings up to 16 bar (232 psi)
 - » International approvals available
 - » Compact design
- » Options:
 - NBR, FKM, EPDM seat seals
 - Manual override
 - Latching coil options
 - Customized solutions

Protects equipment
with lower
pressure spikes



Solenoid
interchangeable
without tools
(Click-on®)

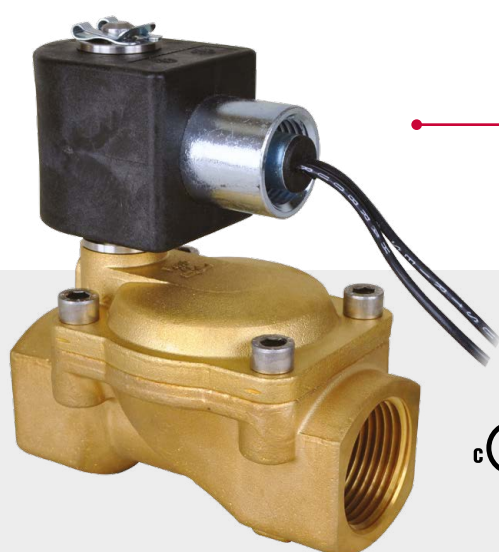


Resists slightly
aggressive gases
and liquid fluids

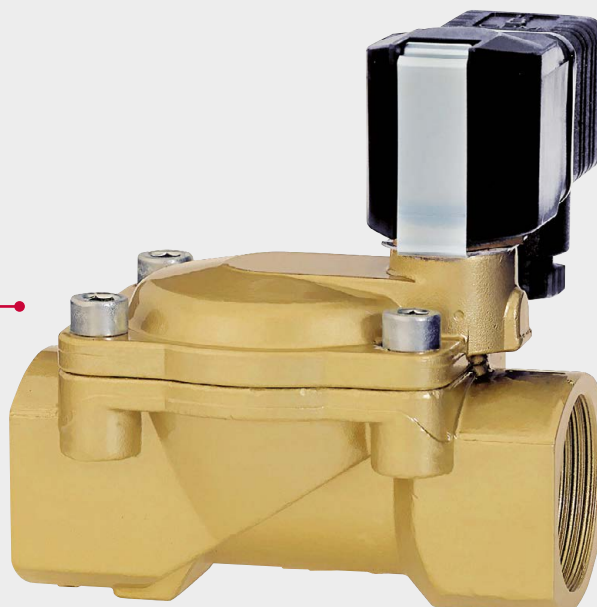


Series 82400

- » 2/2-Way valves – Normally closed and open
 - » For neutral gases and liquid fluids
 - » Brass
 - » 1/4 ... 2 (ISO G/NPT) port size options
 - » Maximum pressure ratings up to 16 bar (232 psi)
 - » International approvals available
 - » Compact design
- » Options:
 - NBR, FKM, EPDM seat seals
 - Manual override
 - Latching coil options
 - Customized solutions



Water hammer prevention is a standard feature



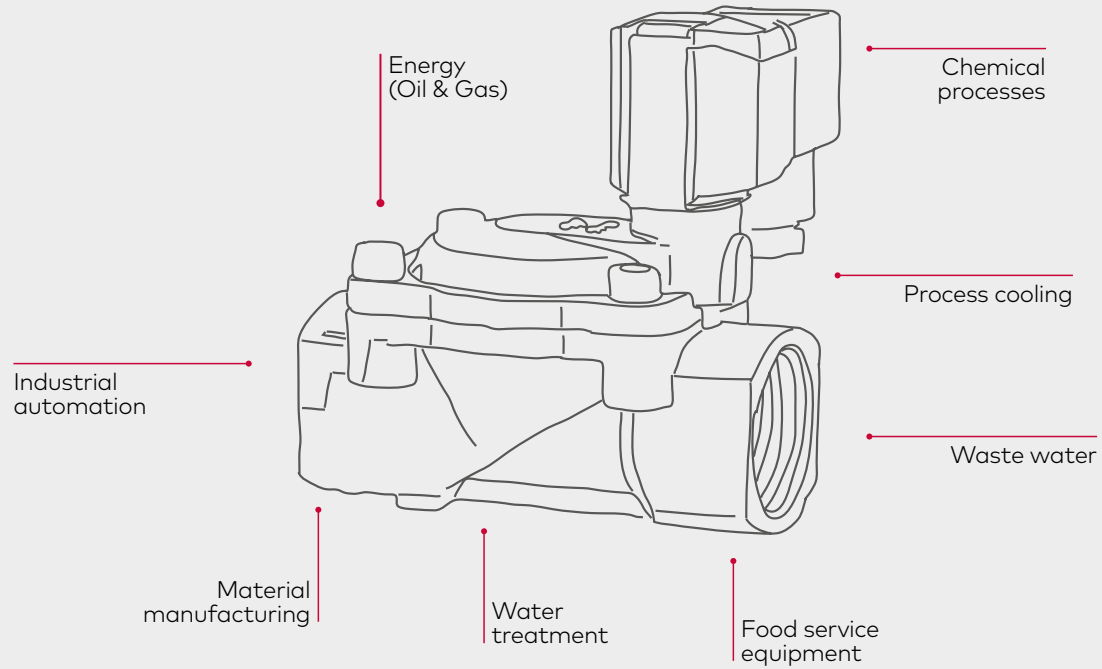
Suitable for neutral gases and liquid fluids

Damped operation

Functional and compact design



Applications





The Buschjost Product Brand

Successful in the market for over 80 years, the Buschjost product brand is a market leading range of process and multimedia valve technology and system solutions for liquid and gaseous media.

Products range from solenoid and control valves to pressure-actuated angle-seat valves to specialised customer-specific solutions:

- » **Solenoid valves**
without differential pressure
- » **Solenoid valves**
with differential pressure
- » **Pressure-actuated valves**
by external fluid
- » **Pulse valves and controls**
for dust collector systems
- » **Proportional valves**

With comprehensive knowledge of relevant industry standards and certifications, Buschjost valves can be found in various applications, including mechanical and plant engineering, the automotive industry and in the field of power generation and environmental protection.

With sales offices globally, we have the reach and capability to ensure continuity of supply and local support where it is needed.

Our expert team is on hand to help you find the product, data or application support you need.

To get in touch with one of our regional offices, please visit
www.imi-precision.com/hello
 or email us: **buschjost@imi-precision.com**