Norgren is a global company that engineers advantage for customers in both fluid and motion control technologies.

Norgren’s Fluid Control Group focuses its energy and resources on fluid control valves and solutions.

The well-established and proven brands within this Group include:

» Buschjost    » FAS    » KIP    » Webber

The bringing together of these brands into one organization provides our customers with the combined resources, expertise, and breadth of product range to enable them to source any fluid control solution from one capable global supplier, represented in all the world’s major regions.

Norgren’s fluid control solutions can create competitive advantage for you by increasing your sales and market share, and reducing your total cost of ownership.

ENGINEERING THAT MAKES A DIFFERENCE

01 & 02 NORGREN ENGINEERS APPLY THEIR TECHNICAL KNOWLEDGE AND EXPERTISE TO DEVELOP INVENTIVE SOLUTIONS

03 CLEAN ROOM FACILITIES IN THE UK
Our engineers are dedicated to the development of solenoid valves, process valves, and customized valve manifolds and solutions.

Fully equipped clean room facilities, in several locations, meet the specific needs of demanding market sectors such as medical device and semiconductor manufacturing.

Our manufacturing locations in Germany, Switzerland, UK and USA enable us to stay close to our customers, and take advantage of local technological expertise.

The fluid control group facility in Geneva, for example, that develops sophisticated miniature valve solutions, draws heavily on the miniaturization and precision traditions of the Swiss watch-making industry.

As a subsidiary of IMI plc, and part of the global Norgren group, we provide our customers worldwide with the reassurance of dealing with an established global supplier. This gives financial strength and security, and all the advantages of a global sales and service network.
» COMPREHENSIVE SIZE RANGE
From 8mm FAS miniature solenoid valves to 200mm Buschjost process valves

» HIGH SPEED
Response times as low as 1ms for example for sorting machines and inkjet printing.

» HIGH VACUUM
10⁻⁶ Torr (10⁻⁹ bar, 2•10⁻⁸ psi) or even lower, with a leak rate of 10⁻⁸ mbar l/sec

» HIGH PRESSURE
Pressure range going up to 250 bar (3600 psi)

» HIGH FLOW-SIZE RATIO
Highly compact solutions with no compromise on performance

» ISOLATION VALVES
Comprehensive range featuring industry-leading flow-to-size ratio and small or no dead volume. For use with ultra pure or corrosive media.

» PROPORTIONAL TECHNOLOGY
High flow precision and high repeatability combined with space, weight and power savings

» TEMPERATURES
Wide range of operating temperatures from -200°C to 300°C (-328° to 572°)
INTEGRATED VALVE MANIFOLD TO CONTROL THE AIR SUSPENSION ON THE PRESTIGIOUS LAND ROVER DISCOVERY AND RANGE ROVER VEHICLES. HIGH PERFORMANCE, QUALITY AND RELIABILITY IN A SMALL, LIGHTWEIGHT SOLUTION.

Norgren’s fluid control solutions are used in many different fields, including:

- Agriculture
- Analytical
- Automotive
- Chemical
- Commercial Vehicles
- Environment Technology
- Food & Beverage
- Fuel Cells
- Heating and Air Conditioning
- Injection Moulding Machines
- Ink-Jet
- Marine
- Mechanical Engineering
- Medical
- Milking
- Optical Sorting
- Packaging
- Power Plants
- Printing
- Process Valves
- Railway
- Sanitary Automation
- Textiles
- Water Management

From the simplest piloting application, through to the most arduous and demanding fluid and gas control requirement, Norgren’s fluid control expertise can make a difference. Drawing on a wide and established range of platform technologies, as well as proven expertise in creating custom valve solutions, Norgren’s experienced design engineers study customers’ individual requirements closely in order to deliver the best possible results.

ENGINEERING INNOVATION

RELIABLE, DURABLE & PROVEN
Norgren provides intelligent products that can be quickly and easily integrated into customers’ projects.

Pre-assembled, ready-to-use valve manifolds offer outstanding flow to size ratio. They are suitable for a wide range of applications, wherever an extremely compact and fully assembled valve system is required for fluid control.

Norgren’s strength lies in the provision of complete solutions tailored to exacting specifications. Our custom-made manifold assemblies combine precision engineering with size and weight savings, performance and reliability.

For this application, no less than 11 solenoid valves, 1 pressure regulator and 7 fittings were required in a very compact solution without compromising performance.
With up to 200 l/min flow rate (84 bar / 58 psi), Flatprop sets new standards in the field of proportional fluid control. Its very good performance to size ratio is ideal for portable medical devices.

Click on is the latest and most varied design within the Buschjost range of solenoid valves. Due to its modular system, fast availability for the customer is guaranteed.

Automotive Air Suspension systems are driven by the need for high performance, quality and competitive prices. The solenoid valves that controls these systems must not only be 100% reliable but must be able to be fitted quickly and with complete confidence. The Webber ASV valve, with its integrated ‘bayonet’ style fitting was designed with these needs in mind.

With a wide variety of coil, orifice and mounting options, KIP can provide a solution to meet many demanding requirements. With a wide range of materials and up to 80 bar (1200 psi) ratings, we can design the correct valve to fit your application.
01 MANIFOLD FOR LAB EXTRUDERS
Manifolds are often used to reduce required space envelopes, simplify installation and eliminate unnecessary tubing and fittings. As a result, customers benefit from a reduction in the cost of materials and an ease of installation.

02 ASSEMBLY FOR AIR SUSPENSION
Competitive advantage means providing the customer with a solution that will help them increase sales and reduce total cost of ownership. The single axle assembly for air suspension is one such example. The valves and sensors are integrated into a single unit that reduces possible leakage points, and increases production throughput for the automotive manufacturer. The assembly is also suitable for use as an aftermarket fit on a wide range of light trucks and vans.

03 COMPACT DISTRIBUTOR
This compact distributor features 40 Chipsol 8mm valves allowing the complete device to be half the size of its counterpart made with 10mm valves. This is particularly useful for clean rooms where space is at a premium.

04 PRINT CARTRIDGE REFILLING MANIFOLD
In-house machining capability allows KIP to custom design and deliver engineered solutions to meet customer requirements. KIP can also integrate related components to deliver a complete subassembly reducing total customer costs and increasing throughput.
05 DUST FILTERS CONTROLLER
For the control of dust filters there are numerous special requirements. Specifically adapted to this application Buschjost offers controls that include all the features needed for this application. Integrated and pre-wired pilot valves are also available.

06 HIGH SPEED VALVE
A major OEM wanted a partner with fluid control expertise to jointly develop a product that would give it a competitive edge in the marketplace. It was this expertise that Webber was able to provide. The result was a unique valve that offered high flow, high speed and very long life in a small package.

07 SEAT LUMBAR CONTROL
The customer had a manifold solution with four 15mm valves to control the seat’s cushions. FAS 10mm Picosol was able to provide the same flow as a 15mm valve. By doing this, the customer was able to use an 8 valve manifold providing more controls over the seat’s cushions, giving the end customer more comfort.

08 CUSTOMISED LIQUID LEVEL ASSEMBLY
KIP’s mission has always been to provide customers with customized assemblies to help reduce costs and provide value. By working closely with customers we understand their applications and how best to solve their problems.