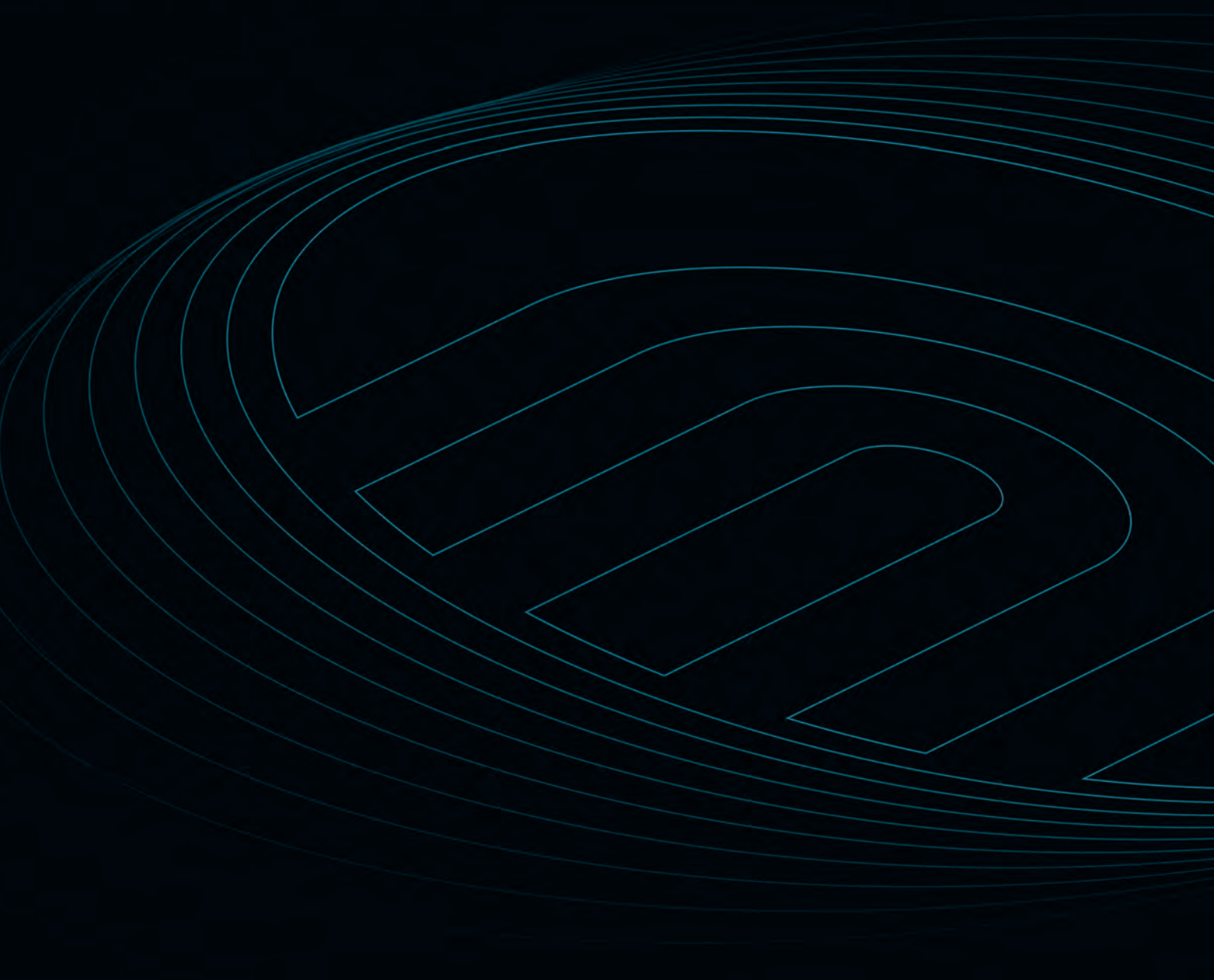




JANATICS

High-Performance Servo Proportional Valves





We are changing the **status-quo**

Current hydraulic systems rely on 20th century designs that are only 20% efficient. At Domin, we have developed state-of-the-art technology, which increases the efficiency of all systems fourfold.

We are increasing efficiencies

We are disrupting the hydraulics industry for the better, making companies and products more efficient, and together saving 855bn kilowatt-hours every year by 2030, which is one gigatonne of CO2.

We are driving innovation

Our valves utilise the most advanced design, analysis, test, and manufacturing technologies. This enables an innovative step-change in the performance of servo proportional technology.

Based in the UK, we design, manufacture and supply high-performance hydraulic servo proportional valves globally.



We didn't expect this valve to be so cost-effective and handle extreme vibration at high cycle rates. With a very small footprint and as a seamless upgrade for Bosch, Moog, Parker, and Woodward. We now stock several valves for a wide range of applications. Saving money with better performance.

Sales Manager, Peerless Engineering





S4 Pro

S01
0.5 - 18 l/min



S6 Pro

NG06
18 - 60 l/min



S6 Pro X

S04
10 - 63 l/min



S10 Pro

NG10
50 - 250 l/min

“

“In the testing we performed, we were not able to get the valve to misbehave or go unstable, which means the valve can handle very difficult control situations.”

Industry Segment Manager, Delta Motion

Achieve more without
compromise to cost,
efficiency and performance.



The valves performance, configurability & durability is simply unmatched. We've been able to replace several OEMs valves with a single Domin valve.

Vice President, The Servo Group

Improved Reliability



Less Down Time

All small, blockage-prone features are removed from Domin valves. Testing shows 100% more in-service life in harsh environments such as sawmills with no problems.



Lower Servicing Costs

No high-pressure seals or filters ensures lower servicing needs for Domin valves. Fewer components also results in a simpler assembly. Environmental sealing protects the product and ensures long-lasting life.

Improved Performance



Precision & Repeatability

High positional accuracy & low hysteresis of our valves ensure high precision of movement in both directions. This leads to an improved product quality and reduced scrap rates.

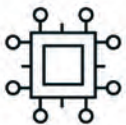


Power Density

Our valves deliver vastly improved weight & space savings whilst ensuring the highest possible performance on the market.



Advanced Engineering Improving Profitability



Advanced Electronics

Our onboard electronics closes the loop on spool position, enabling a step change in flow control accuracy & repeatability.



Reduce Energy Costs

By replacing a two-stage valve with a Domin valve, customers have seen a reduction in CO2 consumption by 1 ton annually per valve. This translates to a savings of 2500 kWh of energy per tonne of CO2, equivalent to \$400 in savings, per valve, per year.



Lead Times

Domin can offer vastly improved lead times compared to our competitors.





S4 Pro

S01



Overview

The Domin S4 Pro series of servo proportional valves are lightweight, high-performance directional flow control valves that cover a range of rated flows from 0.5 l/min to 18 l/min up to a maximum pressure of 350 bar per spool land.

Based on a miniature port circle of 12.2 mm and with a weight of less than 300g, the S4 Pro is suited to applications requiring superior performance, dynamics and reliability expected of a proportional valve in an ultra-compact package.

Hysteresis	Leakage	Mass	Frequency Response	Rated Flow	Response Time
<1%	<0.45 l/min	290g	>200Hz	0.5-18 l/min	<3 ms

S4 Pro Common Applications



Aerospace



Automotive /
Motorsports



Animatronics



Simulation



Robotics



Marine

S4 Pro Upgrade Examples

Star 300

60%

Lower Leakage

Bosch 4WRPEH6

70%

Faster Step Response

Woodward 27A

30%

Lighter



S6 Pro

NG06



Overview

The Domin S6 Pro servo proportional valve has been designed to achieve the best characteristics from two competing valve technologies: fluid amplified electrohydraulic valves and proportional valves.

The S6 Pro has the size, mass, and dynamic capabilities of the most compact electrohydraulic valves, and the low quiescent leakage and reliability of the best proportional valves.

Hysteresis	Leakage	Mass	Frequency Response	Rated Flow	Response Time
<0.2%	<1.1 l/min	550g	>190 Hz	18-60	<3.5 ms

S6 Pro Applications



Die Casting



Blow / Injection Moulding



Wood / Timber Machines



Vibration Equipment



Metal Processing



Simulation

S6 Pro Upgrade Examples

Atos DLHZO

65%

Faster Step Response

Bosch Rexroth 4WRPEH 6

50%

Higher Flow

Parker D1FP

89%

Lighter



S6 Pro X

S04



Overview

The Domin S6 Pro X servo proportional valve builds upon the benefits of the S6 Pro.

Notably, the S6 Pro X is available in two versions: voltage-controlled and current-controlled, providing greater flexibility in its application.

Based on the S04 port pattern and weighing less than 800 g, the valve has a rated flow of 63 litres per minute. It offers unparalleled performance for a variety of demanding applications.

Hysteresis	Leakage	Mass	Frequency Response	Rated Flow	Response Time
<0.2%	<1.1 l/min	750g	>250 Hz	10-63 l/min	<3.5 ms

S6 Pro X Common Applications



Aerospace



Vibration Equipment



Animatronics



Simulation



Fatigue & Material Testing



Metal Processing

S6 Pro X Upgrade Examples

Woodward 27 E

57%

Smaller

Star 550

30%

Lower Leakage

Vickers SM4-20

70%

Faster Step Response



S10 Pro

NG10



Overview

The Domin S10 Pro is a single-stage servo proportional valve which combines high flow, excellent dynamics, strong chip shear, and low power consumption.

The S10 Pro has been designed to sustain high bandwidth operation at exceptional flows without significant limitation of operating pressures or duty cycles.

Where servo proportional valves have been employed to control high flows there is a clear trade with packaging size and weight.

The S10 Pro valve is packaged to be lower weight and more compact than the best of electrohydraulic servo valves.

Hysteresis	Leakage	Shock Resistance	Frequency Response	Rated Flow	Response Time
<0.2%	<3 l/min	50g	>150 Hz	50-250 l/min	<7ms

S10 Pro Common Applications



Blow / Injection Moulding



Wood / Timber Machines



Railroads



Gas, Steam & Hydro Turbines



Hydraulic Presses



Vibration Equipment

S10 Pro Upgrade Examples

Parker D3FP

16%

Lighter

Bosch 4WRPEH 10

42%

Smaller

Woodward 27G

43%

Higher Bandwidth



Expert Design, Technology, and Manufacturing

By working closely with our clients, we can turn around designs, proposals, products for testing, and deliver orders efficiently with short lead times.

All of our design, manufacturing and development takes place within the UK at one of our state-of-the-art facilities.

Our Domin Technology Centre is capable of quickly turning around highly demanding components & systems, aided by in-house tool and gauge manufacturing.

If you would like a valve with performance outside of the suggested parameters, then we can also help with this.

We continue to expand the range of valves we supply as demand increases for our products. We can design, refine, and custom-build the perfect solution for you.



Customer Promise

We pride ourselves on providing exceptional customer service, ensuring that every customer feels heard and valued.

Our average daytime response time is 10 minutes, so customers can expect quick and efficient service.

With an average worldwide order to delivery time of just 8 weeks, we ensure that customers receive their products in time to fulfil their business objectives.

Our customer promise is centred around providing personalized service, quick response times, and efficient delivery, which we service to our customers across the globe.



Visi-Trak is excited to have Domin as our supplier for our high-performance valve platform. We are looking forward to a long-term partnership that will allow us to provide our customers with the highest performance control system for die casting on the market."

Tom Vann, President, Visi-Trak



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