Small things - matter.



Small things -matter. Danfoss Cartridge valves.

A market leading portfolio.

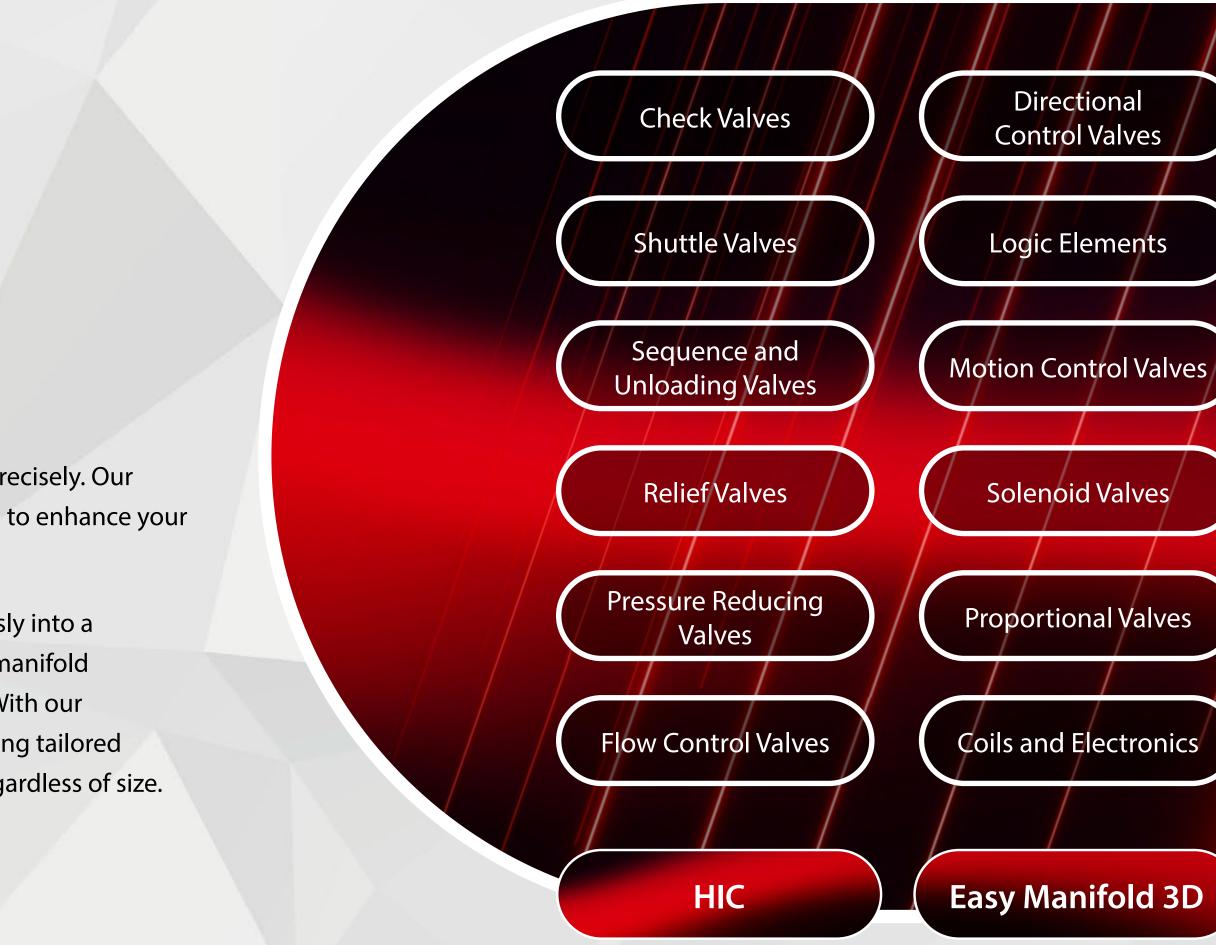
Whatever your application, we've got you covered with our portfolio of over 500 cartridge valves. Setting us apart is a dynamic mix of technical expertise and application know-how, enabling us to provide solutions tailored uniquely for you, all while maintaining the unparalleled quality and reliability you've come to expect from Danfoss.

Appearances may be deceiving. These small components hold the power to control even the biggest machines smoothly, and precisely. Our cartridge valves are each designed to enhance your machines for the better.

Combine cartridge valves seamlessly into a Hydraulic Integrated Circuit (HIC) manifold to match your application needs. With our EasyManifold configurator, designing tailored hydraulic solutions is effortless, regardless of size.

Small things ~ └─ matter. ∕











Relief Valves

Check Valves Robust design -

Explore our extensive check valve collection, featuring cartridge-style options (both standard and reverse direction) and in-line varieties. Our pilot-operated check valves aren't just compact and economical – they deliver optimal load holding performance. With numerous sizes and schematic options, we tailor our valves to meet your specific flow and pressure application needs. Rest easy with our robust, low-leakage designs, ensuring you can confidently apply them to your machine with unmatched reliability.

Check Valves at Danfoss.com

Flow rate Up to 310 l/min [82 US gpm]

Pressure rating

Up to 420 bar [6000 psi]

Product range

Normal Direction Check Valves

In-line Check Valves

Reverse Direction Check Valves

Small things ~ — matter. –





Pilot to Open Check Valves

Pilot to Close Check Valves

Dual Pilot Operated Check Valves











Relief Valves

Shuttle Valves -Reliable performance -

Discover the perfect solution for your hydraulic circuit needs with our diverse line of shuttle valves. Whether you're looking for efficiency in load-sensing or loop flushing, we have you covered. Choose from a range of sizes and types, providing versatile options to suit your unique application requirements. Elevate your hydraulic systems with our reliable and efficient shuttle valves.

Shuttle Valves at Danfoss.com

Flow rate

Up to 90 l/min [24 US gpm] [82 US gpm]

Pressure rating

Up to 450 bar [6500 psi]

Product range

Load Shuttle Valves - Cartridge

Load Shuttle Valves - In-line

Hot Oil Shuttle Valves

Small things ~ └─ matter. ∕















Sequence and Unloading Valves **Controlled operation**

Craft a powerful circuit solution for your application with our range of sequence and unloading valves. Enhance function timing, boost efficiency, and ensure top-notch circuit safety. Our products are designed to offer controlled operation that takes your application to the next level.

Sequence and Unloading Valves at Danfoss.com Flow rate **Pressure rating** Up to 250 l/min Up to 350 bar [66 US gpm] [5000 psi]

Product range

Direct Acting Pressure Sequence Valves

Pilot Operated Pressure Sequence Valves

2-Way Directional Sequence Valves

Small things ~ — matter. –

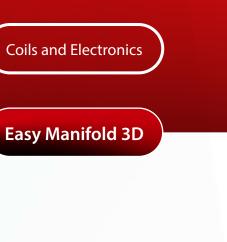




3-Way Directional Sequence Valves

Unloading Valves









Relief Valves

Relief Valves -Precise control -

Discover our complete line of relief valve solutions. From various sizes to diverse schematic types, we've got you covered. Our models are engineered to deliver a quick response, reduce noise, and enhance accuracy. Danfoss relief valves are reliable solutions to meet all your pressure control needs.

Relief Valves at Danfoss.com

Flow rate Up to 380 l/min 100 US gpm]

Pressure rating

Up to 400 bar [5800 psi]

Product range

Direct Acting Poppet Relief Valves

Direct Acting Spool Relief Valves

Differential Area Relief Valves

Small things ~ — matter. –





Danfoss Cartridge valves. A market leading portfolio.

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Relief Valves

Pressure Reducing Valves -Stable and accurate performance -

Ensure optimal pressure for your hydraulic functions with our range of pressure reducing valves. Whether you prefer standard reducing or reducing/relieving valves, we've got you covered. Tailor your circuits effortlessly with our versatile selection, designed to meet your unique needs. Experience precision and reliability with our pressure reducing valves for peak hydraulic performance.

Pressure Reducing Valves at Danfoss.com

Flow rate Up to 200 l/min [52 US gpm]

Pressure rating

Up to 350 bar [5000 psi]

Product range

Pressure Reducing/Relieving Valves

Pressure Reducing Valves (Non-Relieving)











Sequence and

Relief Valves

Go with the flow -















Relief Valves

Directional Controls Valves -**Complete control** -

Gain complete control of your hydraulic system's flow with Danfoss directional control valves. Tailor your design with ease by choosing from our array of manual control options – be it rotary, lever, push and pull – or opt for hydraulic pilot-operated control. Your design preferences, your control – it's all in your hands with Danfoss directional control valves.

Directional Controls Valves at Danfoss.com

Flow rate Up to 265 l/min [70 US gpm]

Pressure rating

Up to 450 bar [6500 psi]

Product range

Manual Rotary Valves

Manual Lever Valves

Manual Push/Pull Valves

Small things ~ — matter. –





Hydraulically Piloted 2-Way Valves

Hydraulically Piloted 3-Way and 4-Way Valves

Brake Release Valves









Relief Valves

Logic Elements -Versatile performance -

Unlock efficiency and effectiveness in your hydraulic integrated circuits (HICs) with our versatile Logic Elements. These elements can be seamlessly applied to design pressure, flow, and directional control circuits. Covering a wide range of pressure ratings and applications, our logic element valves serve as the foundation for engineering creative and tailored HIC solutions to perfectly meet your application needs.

Logic Elements at Danfoss.com

Flow rate Up to 400 l/min [106 US gpm]

Pressure rating

Up to 350 bar [5000 psi]

Product range

Pressure Compensators, Restrictive Type

Pressure Compensators, Priority Type

Logic Elements, Poppet Type

Small things ~ — matter. –





Logic Elements, Spool Type

Logic Elements, With Pilot Valve Adaptor









Relief Valves

Motion Control Valves-Extensive, stable offering -

Elevate your machinery with our Motion Control Valves, enhancing stability and efficiency while eliminating bothersome valve noise. Explore the market's most extensive selection of motion control vavles, featuring standard, part-balanced, fullybalanced, and zero-differential designs, catering to all your hydraulic system needs.

Motion Control Valves at Danfoss.com

Flow rate Up to 300 l/min [80 US gpm]

Pressure rating

Up to 430 bar [6200 psi]

Product range

Overcenter Valves, Standard

Overcenter Valves, Part Balanced

Small things ~ — matter. ∕





Overcenter Valves, Fully Balanced Overcenter Valves, Two Stage Counterbalance Overcenter Valves, Zero Differential Overcenter Valve Assemblies











Relief Valves

Solenoid Valves Maximum flexibility and complete control

Even in the harshest environments, you can count on industry-leading Danfoss solenoid valves to meet nearly every flow, pressure and directional control challenge. With superior ingress protection and unsurpassed performance, our solenoid valves give you maximum flexibility and complete control over your hydraulic systems.

Solenoid Valves at Danfoss.com

Flow rate Up to 230 l/min [60 US gpm]

Pressure rating

Up to 350 bar [5000 psi]

Product range

Poppet Type Solenoid Valves

Spool Type 2-Way, 2-Position Solenoid Valves Spool Type 3-Way, 2-Position Solenoid Valves



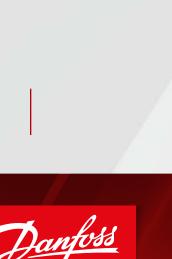


Spool Type 4-Way, 2-Position Solenoid Valves Spool Type 4-Way, 3-Position Solenoid Valves Spool Type 5-Way, 3-Position Solenoid Valves

Danfoss Cartridge valves. A market leading portfolio.

ENGINEERING Tomorrow





Relief Valves

Precise proportional control

Elevate your control capabilities with smooth, accurate control of pressure and flow applications with our range of Danfoss proportional cartridge valves. Combine them with Danfoss logic element valves and other screw-in cartridge valves (SiCV) in a custom manifold assembly to build an efficient and reliable hydraulic system.

Proportional Valves at Danfoss.com

Flow rate Up to 180 l/min [48 US gpm]

Pressure rating

Up to 350 bar [5000 psi]

Product range

Proportional Directional Valves

Proportional Poppet Flow Control Valves

Proportional Spool Flow Control Valves (Non-Compensated)

Small things ~ — matter. –





Proportional Spool Flow Control Valves (Compensated)

Proportional Pressure Relief Valves

Proportional Pressure **Reducing Valves**





Relief Valves

Coils and Electronics Robust performance –

Discover the perfect fit for your valves with our coils, available for all sizes and in a variety of connector types and voltages. Beyond our standard range, our robust and tough coils are built to withstand extremes – from voltage and temperature variations to water ingression caused by power spray or submersion. What's more, our coils are PLUS+1[®] compliant, ensuring seamless integration into your mobile control systems.

Coils and Electronics at Danfoss.com

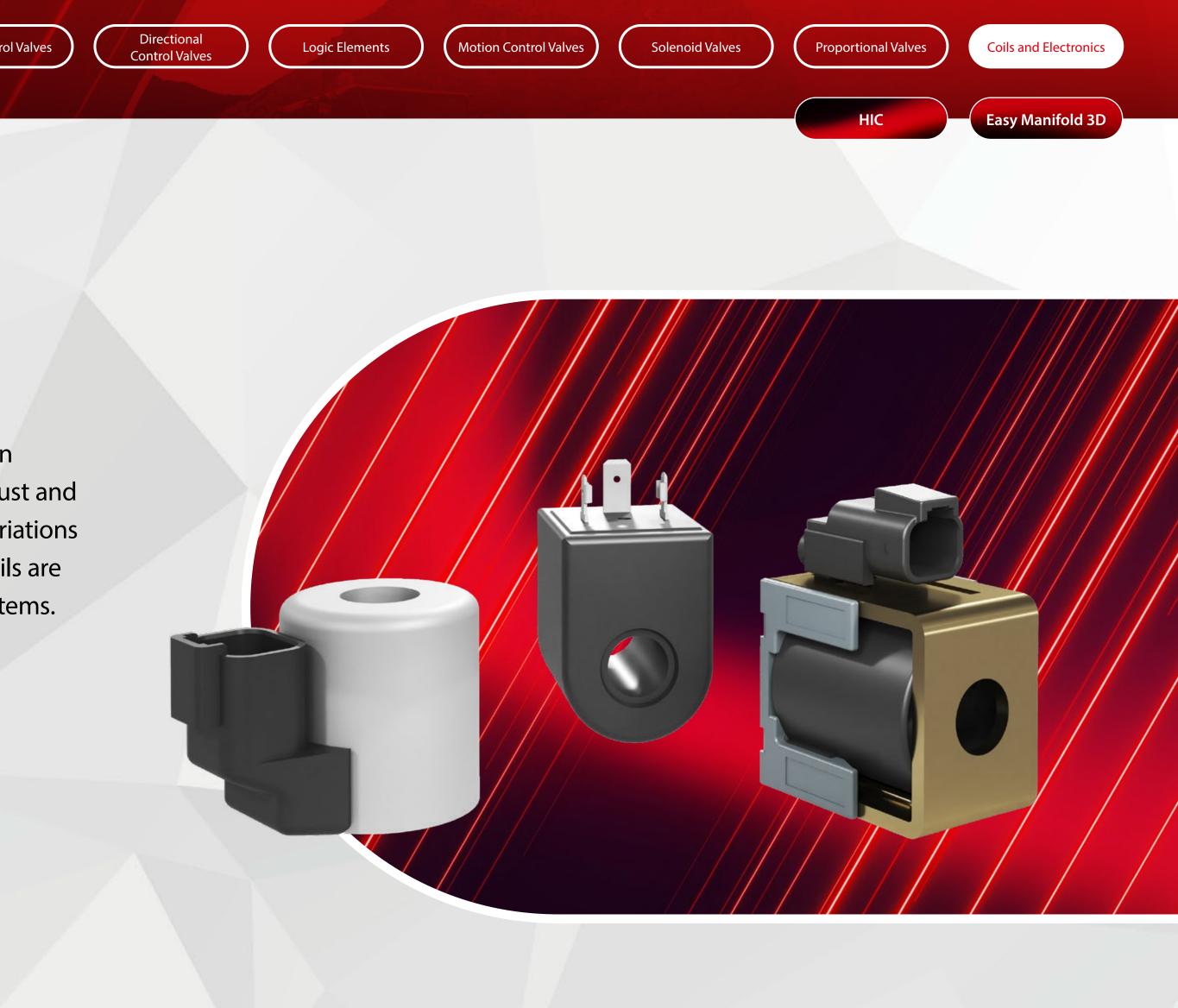
Flow rate Up to 310 l/min [82 US gpm]

Pressure rating

Up to 420 bar [6000 psi]







Danfoss Cartridge valves. A market leading portfolio.

ENGINEERING TOMORROW





Relief Valves









Motion Control Valves

Solenoid Valves

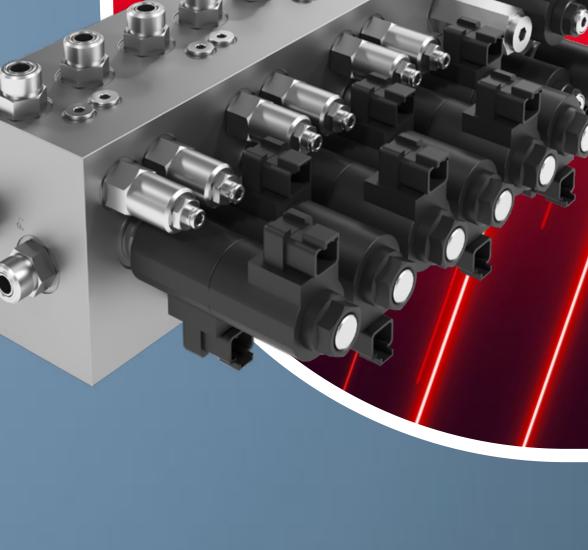


HIC

Directional Control Valves

Combine cartridge valves seamlessly into a Hydraulic Integrated Circuit (HIC) manifold to match your application needs. With our EasyManifold configurator, designing tailored hydraulic solutions is effortless, regardless of size.

HIC at Danfoss.com













A custom HIC can be specified, quoted and designed to meet your circuit requirements using our EasyManifold web-based design tool.

Thousands of users around the world already rely on EasyManifold to:

- **Effortlessly create** hydraulic circuit schematics from Danfoss's digital library of cartridge valves using a **drag and drop** interface.
- Automatically design small to medium sized HICs. At the click of a button, your project can be submitted and EasyManifold will generate a 2D drawing and 3D model. In **less than an hour**, you can take your project from a concept to a design ready for manufacturing.
- Configure any standard cartridge valve with • the **Shopping Cart** function.

Video of Easy Manifold

Small things matter.







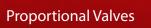
Directional

Control Valve



Motion Control Valves

Solenoid Valves



Coils and



Easy Ma





Electronics)
anifold 3D	

ICS Business unit

Danfoss Power Solutions (DPS) is a leading supplier of hydraulics and electric powertrain systems. We leverage our full solutions capabilities and application know-how to optimize the performance of mobile and industrial machinery.

The BU Integrated Circuit Solutions, part of the Controls Division, engineers control solutions for the global cartridge and Hydraulic Integrated Circuit (HIC) market. We are passionate professionals, committed to developing cutting-edge control solutions that enable sustainable growth and improved energy efficiency. We pursue global change for better.





