

ENGINEERING
TOMORROW

Danfoss

Brochure

Vickers® by Danfoss **ViPak™ Hydraulic Power Units**

NAM Region (US/Canada)

VICKERS
by Danfoss



Standard and fully custom packaged systems

Standard Packaged Systems

With the most flexible range of configuration options, Vickers by Danfoss' standard packaged systems are the fastest way to get mobile and ViPak hydraulic power units, bar manifolds, and integrated motor pumps for a variety of applications. System designers can quickly and conveniently find what they need using the Danfoss Packaged Systems Configurator.

Bar Manifolds

Vickers by Danfoss bar manifolds all include standard relief valves and come in aluminum and ductile materials with multiple options, giving engineers the flexibility they need to meet a variety of application requirements. *Applications: Civil projects, primary metals, metal forming, automotive, pulp and paper, wind-power, entertainment, food and beverage.*

ViPak Hydraulic Power Units

ViPak hydraulic power units are available in vertical, horizontal, L-shape, overhead, JIC, and custom configurations. Our industrial power units feature electric motors rated for continuous duty to provide both flexibility in installation and durability in operation for a long-lasting, reliable system. *Applications: Civil projects, primary metals, metal forming, automotive, pulp and paper, wind-power, entertainment, food and beverage.*

Industrial Motor Pumps

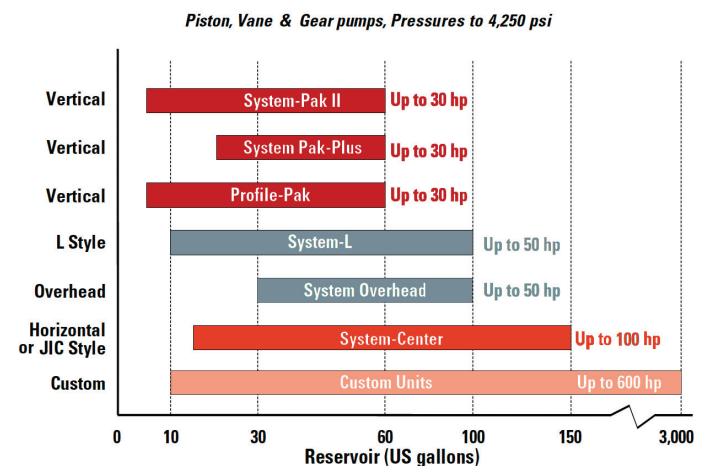
Vickers by Danfoss integrated motor pumps are completely assembled and housed in a compact, sound-reducing enclosure. They combine a conventional AC induction motor cooled by system hydraulic fluid with a fixed displacement vane or variable displacement piston pump. IMP's provides up to 92 kW of quiet, continuous hydraulic power. *Applications: Marine, sawmill, entertainment, mining, elevators.*

Custom Packaged Systems

No matter the scale or complexity of the project, Danfoss' Application and Commercial Engineering (ACE) Group is available to help customers design, manage, and install custom systems to meet their requirements. Contact a local area Danfoss sales manager and request an ACE Group quote for industrial applications

Applications: Mining, automotive plant, machine tools, primary metals, entertainment, civil engineering, construction.

ViPak Hydraulic Power Units - Product range



Built for convenience and short lead times

ViPak Hydraulic Power Units

ViPak HPU's integrate Vickers by Danfoss motors, pumps, valves, hoses, filters, and electrical components and come in vertical, horizontal, L-shape, overhead, JIC, and other configurations. Our power units feature electric motors rated for continuous duty to provide both installation flexibility, and durability in operation, for a long-lasting, reliable system.

Short lead times - Down to five days for selected configurations.

- Lift off tops provide easy access for maintenance
- Configurable selection of pumps, motors, valves, reservoirs, variable drive capabilities, and optional accessories meets the requirements for most standard and custom applications
- Offers the smallest package size in its class

ViPak™ Hydraulic Power Units

Highly configurable to meet your needs

ViPak HPU's are built using Vickers by Danfoss industrial-grade components with a proven track record of superior reliability, performance and efficiency.

Vertical Power Units

System-Pak — PSSP

Best Value!

- Lower profile design for space savings
- Modular manifold block
- Multiple pump options
- Manifold options for up to six D03 or D05 Valve Stations
- PVM pumps available

Reservoir Capacities	3-60 gal
Flows to	31.5 gpm
Electric Motors	0.75-30 hp
Maximum Pressures to	3,000 psi



PSSP System Pak

Pak-Plus — PSPP

- Variable speed drive ready / highly adaptable
- Modular manifold block
- Easy to change spin-on return line
- Manifold options for up to six D03 or D05 Valve Stations
- PVM pumps available

Reservoir Capacities	20-60 gal
Flows to	31.5 gpm
Electric Motors	5-30 hp
Maximum Pressures to	3,000 psi



PSPP Pak Plus

Profile-Pak — PSLP

- Lower profile design for space savings
- Modular manifold block
- Multiple pump options
- Manifold options for up to six D03 or D05 valve stations
- PVM pumps available

Reservoir Capacities	5-60 gal
Flows to	31.5 gpm
Electric Motors	0.75-30 hp
Maximum Pressures to	3,000 psi



PSLP Profile-Pak

Horizontal Power Units

System-Center — PSSC

- Variable speed drive ready
- JIC reservoirs available
- Removable top for easy access
- Manifold options for up to eight D03 and D05, or four D08 valve stations
- PVM pumps available

Reservoir Capacities	10-200 gal
Flows to	90 gpm
Electric Motors	0.75-100 hp
Maximum Pressures to	4,000 psi



PSSC System-Center

L-Style Power Units

System-L — PSSL

- Traditional power unit design
- Flooded Inlet
- Multiple pump options
- Manifold options for up to eight D03 and D05, or four D08 valve stations

Reservoir Capacities	10-120 gal
Flows to	57 gpm
Electric Motors	0.75-50 hp
Maximum Pressures to	4,000 psi



PSSL L-Shaped

ViPak™ Hydraulic Power Units

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More **options**, more **opportunities**!

Overhead Style Power Units

System-Overhead — PSSO

- Space saving design for larger applications
- Flooded inlet
- Multiple pump options
- Manifold options for up to eight D03 and D05, or four D08 valve stations

Reservoir Capacities	30-120 gal
Flows to	57 gpm
Electric Motors	0.75-50 hp
Maximum Pressures to	4,000 psi



PSSO System-Overhead

Pump Motor Assemblies

Integrated Motor Pump — PSMP IMP and Motor Pump

- Sealed bearings work best in dirty environments
- Shrouded, oil cooled electric motor: provides up to 70% reduction in sound levels compared to conventional systems
- Small Package Size: 35-50% smaller than conventional systems
- Variable speed drive ready: no additional cooling required



PSMP IMP and Motor pump

Flows to	125 gpm
Electric Motors	10-125 hp
Maximum Pressures to	4,250 psi

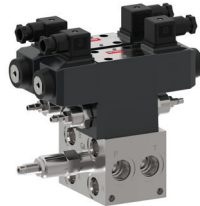
Applications: Marine, Sawmill, Entertainment, Mining, Elevators

Bar Manifold Assemblies

Manifolds — PSMA

- Relief valve
- Stack valve options, up to 4 stacks
- SAE ports
- Great value

D03	Up to 8 stations parallel, and up to 4 station series
D05	Up to 8 stations parallel
D08	Up to 4 station parallel



PSMA Manifold

Pump/Motors — PSMP

- Close coupled space saving design
- Multiple pump options
- Save labor costs building Power Units
- Longer shaft seal life



PSMP Pump/Motor

Flows to	57 gpm variable, 91 gpm
Electric Motors	0.75-100 hp
Maximum Pressures to	4,000 psi variable, 3,000 psi fixed

Whatever the industry. **Whatever the application.**

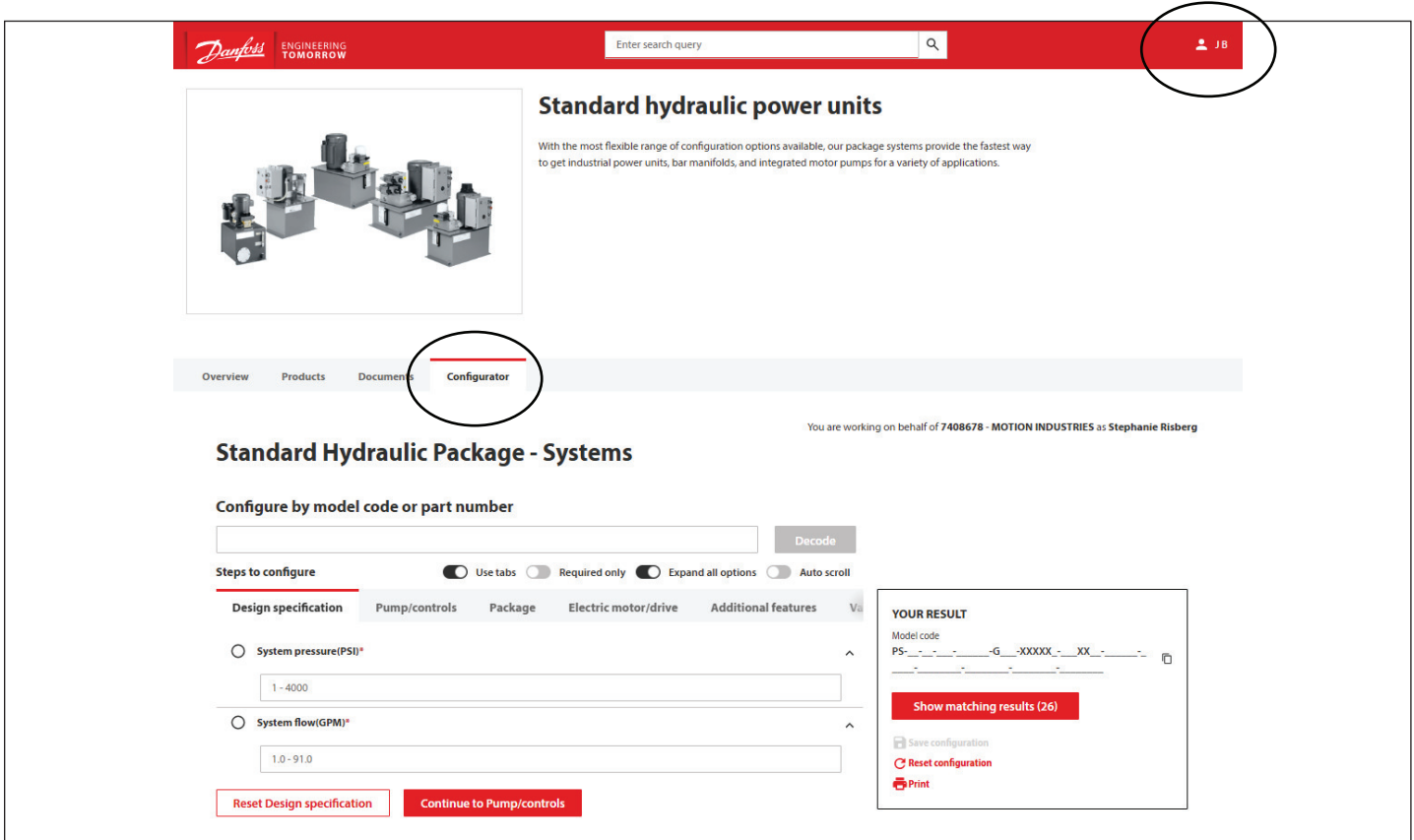
There's a Vickers by Danfoss power unit to fit your needs



Configure online and order!

Use the online configuration tool to design the perfect HPU for your application.

- Choose your configuration type, select the pump, valves, tank size and more.
- Receive instant pricing and drawings.



Follow these steps to place an order

1. Use our web-based configurator tool

- Log into your **Powersource** account to get access.
- Under the Products section, go to the "Standard Hydraulic Power Units."
- Go to the "Configurator" tab.

2. Configure your HPU

- Select the configuration options.

3. Place the order

- Review the list price and place the order.

Contact the Danfoss HPU Team

email: fpghpu@danfoss.com

Setup and technical information

For additional technical information, refer to [HPU installation and start up user guide](#)

ViPak™ Hydraulic Power Units

Build your business with the best!

From power source to actuation, Danfoss offers a full suite of standard and customizable hydraulic solutions to provide precisely what's needed for your project.

Piston Pumps (PVM)

PVM variable-speed piston pumps generate power more efficiently and quietly than conventional, fixed speed pump systems.

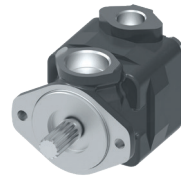
Displacement range: 18cc - 141cc
Maximum pressure: 315 Bar



Vane Pumps (V10/V20)

V10/V20 fixed displacement vane pumps are an excellent choice for quiet operation and control of a broad range of mobile and industrial applications.

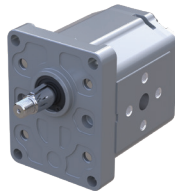
Displacement range:
• V10 - 3.8cc - 27.2cc
• V20 - 23.5cc - 51.1cc
Maximum pressure: 172 bar



Gear Pumps

Danfoss SKP2NN range of gear pumps offer integral valves and pressure balanced design for high efficiency, and extruded aluminum bodies for high strength.

Displacement range: 3.9cc - 25.2cc
Maximum pressure: 250 bar



Sensors

The Danfoss portfolio of temperature sensors and pressure transmitters are engineered for the ultimate insight into your application while delivering resilient, long-lasting performance.

Temperature sensor range: from -50° C to 800° C
Pressure transmitters: Choice of pressure connections, electrical connections, pressure ranges, output signal.



Directional Valves (KDG4V-3)

The line of Vickers by Danfoss directional control valves offers an expansive range of models and configurations to ensure a perfect fit in your application.

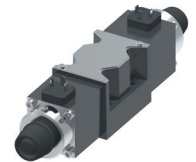
Size: Cetop 3
Maximum flow: Refer performance curve
Maximum pressure: 315 bar



Proportional Valves (KDG4V-5)

Models with on-board electronics (OBE) and non-OBE, a complete size range and performance levels to meet in Industrial and Mobile applications.

Size: Cetop 5
Maximum flow: Refer performance curve
Max. Pressure: 315 bar



Cartridge Valves (RV5)

While offering the same control functions as traditional hydraulic valves, screw-in cartridge valves are compact, reliable, and economical.

Relief valve: RV-5
Maximum flow: 114 LPM
Maximum pressure: 350 bar



Cylinders

Vickers by Danfoss line of hydraulic, pneumatic and electrohydraulic cylinders are engineered for superior performance and long life.

Bore Range: 1.5in. to 18in.
Stroke Range: Up to 240in.



Low noise HPU

Available in three primary configurations, these power units are built with Vickers by Danfoss pumps and components such as oil cooled motors, specifically chosen for their reduced noise output. In addition, you have the flexibility to configure, the pump type, motor size and reservoir capacity to meet your needs.



Count on Danfoss to move at the speed of your business

Regardless of complexity, from the specification stage, through commissioning and beyond, we are uniquely positioned to support each project throughout the life of the installation.

Fully customized Hydraulic Power Units and Turn-key Projects

Not finding your HPU solution from the standard options? No problem. Danfoss Application & Commercial Engineering is available to help design, manufacture, install and commission highly customized and complex HPUs.

Combined with our capability to also integrate electrification and automation scope, as well as SW development and programming through experienced Danfoss' in-house resources, we can offer you the turn-key solution you need.

Utilizing an Engineer-to-Order process, we ensure despite the dynamics of a project business, a robust change management so specifications as well as cost always stay within the agreed limits and delivery happens on time.

Service throughout the entire project lifetime

From quotation to after sales service, the Danfoss global network of experts supports you with a variety of services:

- Expertise in regional requirements and compliance
- On-site project management, repair and field service
- Danfoss warranty support and execution





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