

ENGINEERING  
TOMORROW



Brochure

Vickers® by Danfoss

# ViPak™ Hydraulic Power Units

NAM Region (US/Canada)



# ViPak™ Hydraulic Power Units

## Standard and fully custom packaged systems

### Standard Packaged Systems

With the most flexible range of standard 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

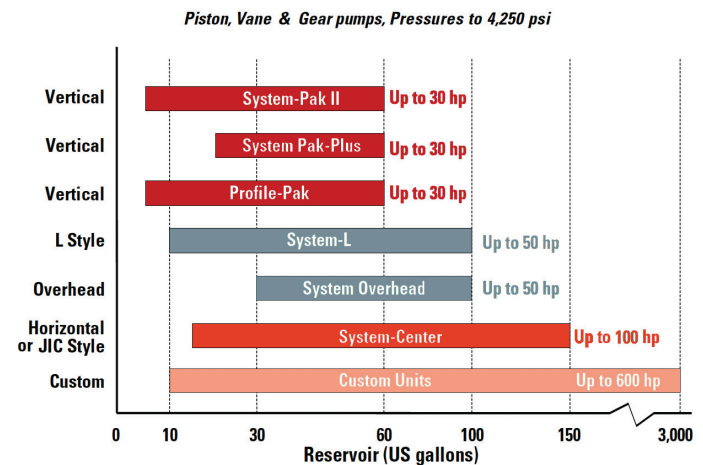
Vickers by Danfoss integrated motor pumps are completely assembled and housed in a compact, sound-reducing enclosure. They combine a conventional AC induction motor cooled by system hydraulic fluid with a fixed displacement vane or variable displacement piston pump. IMP's provides up to 92 kW of quiet, 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 in mining, utility, automotive, entertainment, construction, civil engineering, and more.

*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

Available in vertical, horizontal, L-shape, overhead, JIC, and other configurations, our 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.

ViPak HPU's integrate Vickers by Danfoss motors, pumps, valves, hoses, filters, and electrical components to deliver hydraulic power to the actuator.

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

- Lift off tops provide easy access 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



PSSP System Pak

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

#### 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



PSPP Pak Plus

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

#### 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



PSLP Profile-Pak

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

### 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



PSSC System-Center

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

### 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



PSSL L-Shaped

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

# ViPak™ Hydraulic Power Units

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

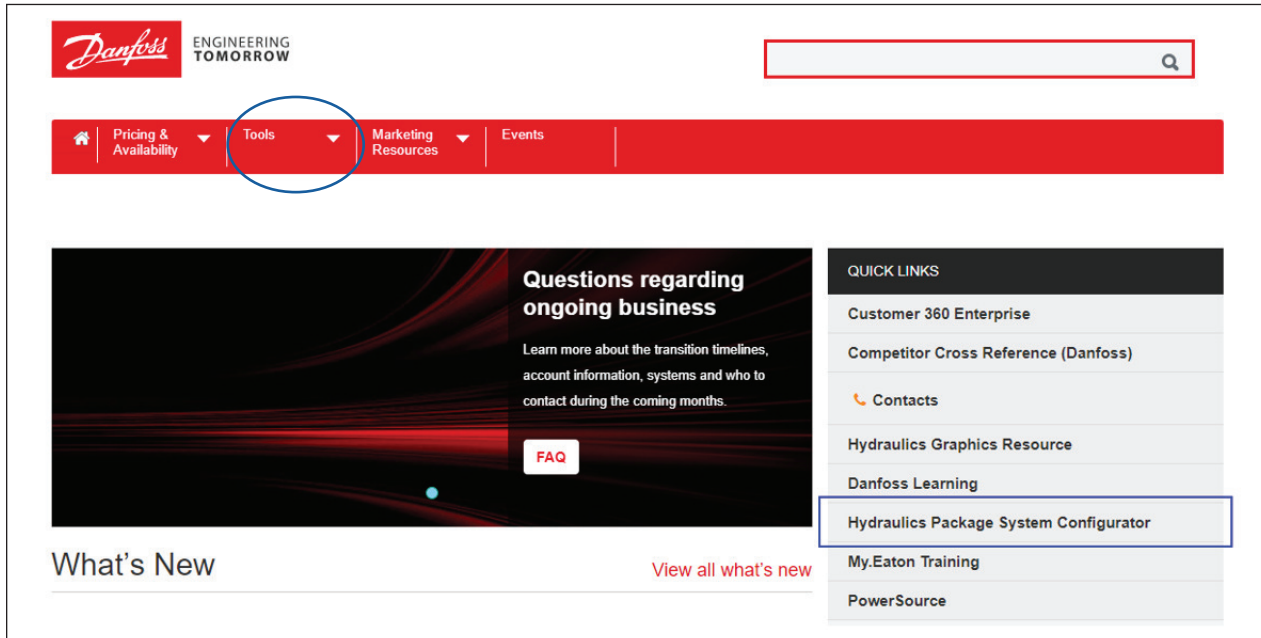


# ViPak™ Hydraulic Power Units

## 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

- Visit [my.eaton.com](http://my.eaton.com) and log in to get access.
- From the "Tools" pull-down tab, select "Hydraulics Package System Configurator"

#### 2. Get an instant quotation

- On the summary screen, select "Freeze and Save - create Conf. ID" to generate a configuration ID. This will email you a quote for your design and a hydraulic schematic. NOTE: Your order is NOT processed until you follow the next step.

#### 3. Place the order

- On the summary tab, copy the configuration ID and the model code description of your configured HPU and email them along with your purchase order to the Danfoss HPU team at: [fpghpu@danfoss.com](mailto:fpghpu@danfoss.com)

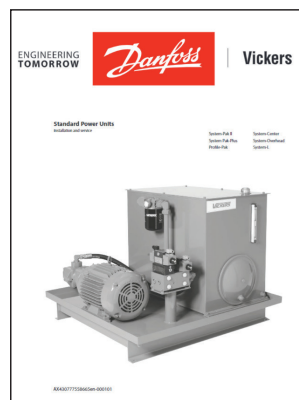
#### Receive an order confirmation

- Before the order is processed, our Danfoss experts will take a final look at the configuration. If everything looks good, the specification, price, and delivery time will be confirmed.

**Contact the Danfoss HPU Team**  
email: [fpghpu@danfoss.com](mailto: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.

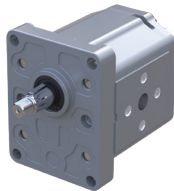
**Displacement range:**  
• V10 - 3.8cc - 27.2cc  
• V20 - 23.5cc - 51.1cc  
**Maximum pressure:** 172 bar



### 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.

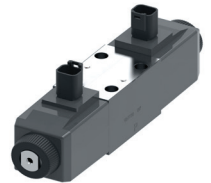
**Temperature sensor range:** from -50° C to 800° C  
**Pressure transmitters:** Choice of pressure connections, electrical connections, pressure ranges, output signal.



### 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.

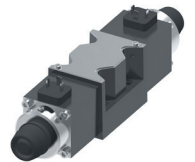
**Size:** Cetop 3  
**Maximum flow:** Refer performance curve  
**Maximum pressure:** 315 bar



### 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.



# ViPak™ Hydraulic Power Units

## 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





Danfoss Power Solutions, Nordborgvej 81, 6430 Nordborg, Denmark, Tel. +45 74 88 22 22, Fax +45 74 65 25 80  
www.danfoss.com, E-mail: info@danfoss.com

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product. All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.