

ENGINEERING  
TOMORROW

*Danfoss*

# Industrial Division Product Announcements

2023-2024 – AMER region

This is a recap of the **industrial hydraulic and clutch/brake product** announcements included in the Danfoss Powerline Newsletter for customers in the Americas.

**NOTE:** This does not include announcements regarding other Danfoss product groups (e.g. mobile hydraulics, fluid conveyance, drives etc)

**VICKERS**  
by Danfoss

AP477375059776en-010101

## New V20H Vane Pump now available with higher pressure!

With an increased pressure rating up to 205 bar (3000 psi) and all the advantages of Vickers vane pump technology, the new V20H square vane pump opens the door to new applications. Whether in heavyduty industrial machinery or mobile applications, the versatile V20H is engineered for efficiency and performance while enduring the toughest operating conditions.

Leveraging decades of vane pump engineering experience, the V20H pressure-balanced, 12-vane design reduces flow pulsations and noise, while extending pump life and improving serviceability. In addition, optional integrated flow control valves help simplify system design and installation.


User Guide [LINK](#)

Fact sheet [LINK](#)

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Product Fact Sheet

### Vickers® by Danfoss

## V20H Square Vane Pump



**Feature/Benefits**

- **High Performance** – Engineered for higher pressure (up to 205 bar) and high speed applications
- **Unmatched durability** – Built with a field-proven design and build materials, for years of service in the most rugged applications
- **Compact size** – Compact size and weight make these pumps suitable for applications where space is limited
- **Reduced contamination** – Square pumps are more resistant to small levels of contamination, increasing reliability
- **Energy savings** – Square pumps are highly efficient, which can contribute to a decrease in energy and operational costs

**Specifications**

- Technology - Vane
- Displacement - 3-42 cc (0.2-2.6 cu in)
- Continuous pressure rating - 205 bar (3,000 psi)

**Markets/Applications**

- Power units
- Lift trucks
- Power steering
- Balers
- Small presses
- Skid steerers

**Handle the pressure, with improved performance**

With an increased pressure rating up to 205 bar (3000 psi) and all the advantages of Vickers vane pump technology, the new V20H square vane pump opens the door to new applications. Whether in heavy-duty industrial machinery or mobile applications, the versatile V20H is engineered for efficiency and performance while enduring the toughest operating conditions.

Leveraging decades of vane pump engineering experience, the V20H pressure-balanced, 12-vane design reduces flow pulsations and noise, while extending pump life and improving serviceability. In addition, optional integrated flow control valves help simplify system design and installation.

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## Reduced Lead Times! Square Vane Pump products in Americas

### Square Vane Pumps: V10, V20, V20H, V2010, V2020

We are glad to inform you lead times on Square Vane pumps have been reduced, bringing them back to standard lead times. The table below shows the current lead time on Square Vane pump product line in the AMER Region.

Please contact your local sales or customer service representative with questions.


For support inquiries send email to:  
[industrialpumpsmotorsupport@danfoss.com](mailto:industrialpumpsmotorsupport@danfoss.com)

Region: AMER	March 2024
Product: Square Vane Pumps	
Products	Current LT (Workdays)
Vane Pump – A Item	15
Vane Pump – B Item	30
Vane Pump – C Item	60

Download [LINK](#)

## Industrial proportional valve cross reference guide


Check out the Vickers by Danfoss proportional valve cross reference guide now available for download! It will help you find the Vickers by Danfoss valve to replace many competitor models.



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Cross reference

### Vickers® by Danfoss Proportional Directional Valve Family — with On-Board Electronics (OBE)



**Key Benefits**

- Great product portfolio breadth and depth
- Three performance levels, Standard, High, and Servo
- With and without On-Board Electronics (OBE)
- Complete size from D03-D10 (NG6-NG32)
- IP 65 & 67 environmental protection (best in class)
- Valve enable function
- Ramp adjustment on KBDL, KBFGSV, KBXCIG, and KBCC
- ±10V & 4-20 mA command input
- Industrial networks available on selected models

**Servo Performance**  
**Valve with Spool Feedback**  
Closed loop control options  
Communications options

Manufacturer	Single Stage		Two Stage			D10/NG32
	D03/NG6	D05/NG10	D05/NG10	D07/NG16	D08/NG25	
Vickers® by Danfoss	KBS2-03	KBS2-05	KBH2-05	KBH2-07	KBH2-08	KBH2-10
Bosch-Rexroth*	4WRRE-6	N/A	4WRTE-10	4WRTE-16	4WRTE-25	4WRTE-32
Bosch-Rexroth*	4WRPEH-6	4WRPEH-10	4WRLE-10	4WRLE-16	4WRLE-25	4WRLE-35*
Parker*	D1FH	D3FH	D31FH	D41FH	D91FH	D111FH*
Atos*	DLHZOTE0	DLZORTE1	DPZOLE1	DPZOLE2	DPZOLE3	DPZOLE6
Moog*	D636	D637	D681**	D682**	D683**	D685**†

**Servo Performance**  
**Valve with Spool Feedback and configuration options**

Manufacturer	Single Stage		Two Stage			D10/NG32
	D03/NG6	D05/NG10	D05/NG10	D07/NG16	D08/NG25	
Vickers by Danfoss	KB51-03	KB51-05	KBH1-05	KBH1-07	KBH1-08	KBH1-10
Bosch-Rexroth	4WRTE-6	N/A	4WRTE-10	4WRTE-16	4WRTE-25	4WRTE-32
Bosch-Rexroth	4WRPEH-6	4WRPEH-10	4WRLE-10	4WRLE-16	4WRLE-25	4WRLE-35*
Parker	D1FP	D3FP	D31FP	D41FP	D91FP	D111FP*
Atos	DLHZOTE0	DLZORTE1	DPZOLE1	DPZOLE2	DPZOLE3	DPZOLE6
Moog	D636	D37	D681**	D682**	D683**	D685**†

## AxisPro valves offer new communication protocols and Pro-FX Configure v2 software update available

We've expanded the AxisPro proportional valves communication capabilities even further to **now include Ethernet/IP and EtherCAT protocols on top of the Profinet and CANopen protocols**, built into the high-end servo performance models (levels 2 & 3). This expansion gives you not only greater control, but also allows for easier integration in an expanded range of applications. The valve's embedded intelligence simplifies traditionally complex setup and control operations, and the plug-and-play design reduces machine build time and installation costs.

But it gets even better! **The new Pro-FX® Configure v2 software is now available.** This powerful tool enables quick configuration of AxisPro valves utilizing a streamlined workflow, wizard-based setup and parameter-based, real-time tuning.

Download the latest update (rev 2.5) with enhancements and bug fixes for AxisPro, KBDG, and CMA valves, including:

- Support for legacy versions of AxisPro firmware (7.x and 107.x)
- Updated User Guide available on software download webpage
- Updated release notes and known issue list included with software bundle

Fact sheet [LINK](#)

Product Data Sheet

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### AxisPro®

## Industrial proportional valves with Ethernet protocols

Expanded communication protocols and new Pro-FX® Configure v2 software



**Enhanced connectivity, expanded possibilities.**

AxisPro® proportional valves, flagship of the Vickers by Danfoss line of industrial servo performance models (levels 2 & 3). With the addition of Profinet, EtherCAT, and Ethernet/IP protocols, the game-changing valves deliver precision control to an expanded range of applications. The new protocols are in addition to CANopen support and built-in diagnostics. Programmed via Pro-FX™ Configure v2 software, the valve's embedded intelligence simplifies traditionally complex setup and control operations, while the plug and play design reduces machine build time and installation costs.

**New Pro-FX® Configure v2 software now available!**  
Pro-FX Configure v2 software offers a streamlined, step-by-step workflow which takes the user through valve setup for specified control modes including spool position, cylinder position, pressure, speed, or force. The software enables you to configure the valves by connecting via Ethernet or CANbus, simplifying everything from setup to tuning and commissioning.

For support inquiries, please email: [imcproductsupport@danfoss.com](mailto:imcproductsupport@danfoss.com)

**Features**

Built on the proven KBS servo Proportional Valve technology, the new AxisPro Proportional Valve provides a range of control capabilities in a modular design.

- Enhanced connectivity with IOT enabled features
- AxisPro Level 2 & 3 products custom programmed via Pro-FX Configure v2 software tool for quick setup and real-time changes for cylinder, motor control on position, speed and pressure/force
- Pro-FX Configure software based on the popular CODESYS environment enabling custom developed solutions
- High-dynamic performance enables open and closed-loop control applications
- LED lens provides on-valve diagnostics
- Best-in-class ingress protection rated to IP65 and IP67, and withstands 70C (158F) ambient temperature
- Experienced application support teams ready to help with your application

**Communication Protocols**

- CANopen
- Profinet - I/O device, 10/100 Mbit RT compatible
- Ethernet/IP
- EtherCAT

**Focus Applications**

• Press	• Oil and gas
• Primary metal	• Machine tools
• Rubber and plastic	• Factory automation
• Wood processing	• Civil engineering
• Pulp and paper	

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## New PVM Pump Code B sizes and marine certifications now available!

Vickers by Danfoss PVM series open-circuit piston pumps lead the industry in noise reduction, compact size, and pressure rating. Engineered to take this renowned performance and reliability to new heights, the Code B design delivers enhanced components and features for maximum life and productivity.

After the release of 45cc PVM code B earlier in 2023, Danfoss has now released the next displacement – 131 and 141cc/r.

These PVM Code B pumps now offer four types of marine certifications:

- Lloyd’s Register- LR
- China Classification Society – CCS
- American Bureau of Shipping – ABS
- Det Norske Veritas – DNV

Fact sheet [LINK](#)

Product Data Sheet

**Vickers® by Danfoss**  
**PVM Series Open Circuit Piston Pump**  
 Design Code B

**Features**

- Quietest piston pumps in class
- Compact design delivers more power in less space
- Up to 4,000 psi continuous pressure
- High load bearings rated at up to 28,000 hours
- Saddle-type swash-plate with steel-backed polymer bearing for improved life
- Optional power control helps the machine use power more accurately
- Variable-speed technology generates power far more efficiently than fixed-speed pumps
- Better energy efficiency eliminates the need for costly, energy-consuming cooling equipment

**Specs**

- Technology - Axial piston
- Displacement - 18-141 cc (1.1-8.6 cu in)
- Continuous pressure rating - 315 bar (4,600 psi)

**Marine Certifications**

- Lloyd's Register- LR
- China Classification Society – CCS
- American Bureau of Shipping – ABS
- Det Norske Veritas – DNV

**Markets/Applications**

- Metal cutting
- Mining
- Oil & gas
- Marine
- Processing
- Energy

**New design enhancements**

- High pressure shaft seal standard - longer life, minimize leakage risk
- New piston material - longer life
- Enlarged case port - better case draining
- Standardized design - better lead times

**VICKERS**  
by Danfoss

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# Reduced Lead Times for Top-Selling Airflex QRVs and Rotorseals

The Airflex line of clutches and brakes is pleased to announce that the recent implementation of a new planning and production system will allow for reduced lead times on many Quick Release Valve (QRV) and Rotorseal assemblies and kits out of the Brooklyn, Ohio manufacturing facility.

Beginning October 1st, 2023, over 30 of the highest volume QRVs and Rotorseals, representing over 90% of sales for those product lines, will be available to ship in one week or less. Please see the linked file for full details on the part numbers included in the program and maximum quantities allowed per customer, per day.

Lead times- [LINK](#)

INDUSTRIAL PROJECTS, SYSTEMS AND SERVICES UPDATE 


ENGINEERING TOMORROW  
Oct 2023

**Lead Times on Airflex Products**

The Airflex line of clutches and brakes is pleased to announce that the recent implementation of a new planning and production system will allow for reduced lead times on many Quick Release Valve (QRV) and Rotorseal assemblies and kits out of the Brooklyn, Ohio manufacturing facility. Beginning October 1st, 2023, over 30 of the highest volume QRVs and Rotorseals, representing over 90% of sales for those product lines, will be available to ship in one week or less.

Please contact your local sales or customer service representative with questions.

Site: Brooklyn, OH, USA		
Product: QRVs		
Part Number	Part Description	Maximum Qty
145141DE	3/4 QRV W/STL SLEEVE	4
145141DF	3/4 QRV W/RUBBER SLV	6
145141DG	3/4 QRV W/ 3/4NPT BOTH E	2
145141DP	3/4 QRV END CAP KIT	25
145141DR	3/4 QRVM W/RUBBER SLV	2
145141DT	3/4 QRVM W/3/4NPT BOTH E	2
145406DE	3/8 QRV W/STL SLV	10
145406DF	3/8 QRV W/RUBBER SLV	12
145406DG	3/8 QRV W/3/8NPT BOTH EN	12
145406DP	3/8 QRV END CAP KIT	10
145406DR	3/8 QRVM W/RUBBER SLV	3
145406DS	3/8 QRV KIT W/ STL SLV	2
145406DT	3/8 QRVM W/3/8NPT BOTH E	2
145407DF	1/2 QRV W/RUBBER SLV	10
145407DG	1/2 QRV W/ 1/2-14NPT BOT	7
145407DP	1/2 QRV END CAP KIT	8
145407DQ	QRV MUFFLER KIT	16
145407DR	1/2 QRVM RUB SLVE	7
145407DS	1/2 QRVM W/STL SLEEVE	2
145407DT	1/2 QRVM W/ 1/2NPT BOTH	4
146506BD	1 QRV WITH STEEL SLEEVE	2
146506BE	1 QRV WITH STEEL SLEEVE	3
146506BR	1 QRV W/STD PIPE ADAPT.	2



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# Airflex® 200DPA Brake is back by popular demand!

A hydraulically actuated, spring released caliper brake, the 200DPA has a robust design engineered to withstand the tough operating conditions common in industrial applications.

The 200DPA features a large piston area for maximum torque availability and a large friction area for long life and reduced maintenance requirements. Commonly used in top drives, the 200DPA is retrofittable to other popular brake brands and can also be sold into conveyors, unwinding systems, and other processing applications.


Fact sheet [LINK](#)

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Fact Sheet

## Airflex® 200DPA Caliper Brakes

Safe, reliable solution for high torque, high energy braking applications



**Committed to your safety, and convenience.**




The Airflex® 200DPA is a symmetrical opposed piston caliper brake design that is well suited for high torque, high energy stopping applications. Engineered for hydraulic actuation, the Airflex® 200DPA is a robust design able to withstand the tough operating conditions associated with industrial applications.

**Why the Airflex® 200DPA**

- High quality
- High performance
- Low cost of ownership
- Low maintenance
- Long lining life

**Features**

- A large piston area and 2,000 psi operating pressure range provides for high applied force resulting in maximized torque availability
- Base or split mounting for flexibility and accommodation of different disc thicknesses or diameters to meet diverse customer requirements
- Guide pins transmit torque from friction shoes which prevents piston seal leakage that could result from misalignment between the friction shoe and disc
- Large friction area for long life and reduced maintenance due to friction material wear

**Applications**

- Top Drive brakes
- Conveyors
- Flywheel brakes
- Inertia brakes
- Parking brakes
- Rotary brakes
- Tension brakes
- Wind Turbine brakes

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## Pro-FX™ Configure v2 software for AxisPro valves now available!

Pro-FX™ Configure v2 is valve configuration software the way it should be: smarter, faster, easier. Featuring a wizard-based setup as well as parameter-based tuning, the user-friendly software enables quick and easy configuration of advanced AxisPro® valves.

A streamlined, step-by-step workflow takes the user through valve setup for specified control modes including spool position, cylinder position, pressure, speed, or force. The program simplifies everything from setup to tuning and commissioning, helping you get the machine to the customer faster.

[Pro-FX™ Configure 2 download webpage](#)

## AxisPro® valves now support Profinet protocol

[AxisPro proportional valves | Danfoss](#)

Fact sheet [LINK](#)

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Fact Sheet

## Pro-FX Configure 2.0

Where configurability **meets simplicity**



Pro-FX Configure 2.0 is valve configuration software the way it should be: smarter, faster, easier. Featuring a wizard-based setup as well as parameter-based tuning, the user-friendly software enables quick and easy configuration of advanced AxisPro® valves. A streamlined, step-by-step workflow takes the user through valve setup for specified control modes including spool position, cylinder position, pressure, speed, or force. The parameter tables utilized in previous versions remain available in the Advanced mode.

The guided process and simplified on-screen graphics significantly improve ease-of-use. For example, configuring a cylinder position controller — a process that might have taken hours previously — can be completed in a matter of minutes. The program simplifies everything from setup to tuning and commissioning, helping you get the machine to the customer faster.

**Benefits**

- Intuitive, user-friendly interface enables quick, simple configuration
- No need to tune PID controller for most applications, saving time

**Features**

- 100% wizard-based setup
- Parameter-based tuning
- Expanded, improved alert library for diagnostics
- Identifies firmware version and prompts update
- Enhanced data plotting to help tune the application

**Configuration options**

<b>Primary control mode</b>	Spool position, cylinder pressure, cylinder position, cylinder speed, cylinder force
<b>Secondary control mode</b>	None, positive force, negative force, positive and negative force, pressure A, pressure B, speed
<b>Command signal type</b>	0-10 V, +/-10 V, 4-20 mA, +/-10 mA, +/-15 mA, +/-20 mA, CANopen, and industrial networks
<b>Spool and application feedback signal types</b>	4-20 mA, SSL, CANopen, and industrial networks

## Vickers by Danfoss offers UL Recognized and CSA Certified DG valves

Vickers by Danfoss offers UL recognized and CSA certified DG4V3 valves from Searcy, AR. The valve coils conform to UL 429 from Underwriters Laboratories Inc (UL), the industry standard for electrohydraulic valve safety which covers any valve that is 600 volts or less. In addition, DG4V3 valves are certified to carry the CSA Group mark, signifying that the valves have been tested against applicable North American standards.

DG4V3 coils have the reverse UR symbol and certification number (MH19333) for UL recognition, in addition to a CSA symbol on the label. If you need further support in your UL application or for further inquiries on part numbers, please reach out to [imcproductsupport@danfoss.com](mailto:imcproductsupport@danfoss.com).

### Important notes:

- UL recognized valves must be ordered from Searcy, Arkansas USA. Any valves coming from Havant, UK are not UL recognized.
- Danfoss has UL Recognized coils on most of our DG4V3 valves, except for:
  - Valves that have a 160 bar tank port pressure
  - Mobile versions: DG4V3M
- CSA Certified valves need to be ordered with a EN21 code at the end of the model code.

Fact sheet [LINK](#)

ENGINEERING TOMORROW 

Fact Sheet

**Vickers® by Danfoss**  
**DG4V3 Directional Control Valves**

Safe, reliable solutions conform to UL429 and CSA



**Important notes:**

- UL recognized valves must be ordered from Searcy, Arkansas USA. Any valves coming from Havant, UK are not UL recognized.
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  - Valves that have a 160 bar tank port pressure
  - Mobile versions: DG4V3M
- CSA Certified valves need to be ordered with a EN21 code at the end of the model code.

Look for the UR symbol  on our coils and the CSA symbol  on our valve nameplates.

**Committed to your safety.**

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DG4V3 Coil



DG4V3 Label

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[www.danfoss.com](http://www.danfoss.com)

## Lead time update on Airflex® clutch and brake products


To provide more reliable delivery information, we are happy to inform you of the latest Airflex product line lead times. The table below shows the current lead times on Airflex product lines from the Brooklyn, OH (US) location.

Please contact your local sales or customer service representative with questions.

Site: Brooklyn, OH, USA	
Product	Current LT (Days)
Drum Product A Items	10
Drum Product B Items	30
Drum Product C Items	60
All Water Cooled Disc Products	Quote
All Other Disc Product A Items	10
All Other Disc Product B Items	30
All Other Disc Product C Items	60
Hardware & Controls A Items	10
Hardware & Controls B Items	30
Hardware & Controls C Items	60

## Lead times- [LINK](#)

INDUSTRIAL PROJECTS, SYSTEMS AND SERVICES UPDATE




ENGINEERING TOMORROW  
September 2023

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Site: Brooklyn, OH, USA	
Product	Current LT (Days)
Drum Product A Items	10
Drum Product B Items	30
Drum Product C Items	60
All Water Cooled Disc Products	Quote
All Other Disc Product A Items	10
All Other Disc Product B Items	30
All Other Disc Product C Items	60
Hardware & Controls A Items	10
Hardware & Controls B Items	30
Hardware & Controls C Items	60



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1 of 1

## Cylinder laser cladding technology gets a new name: Hydroclad™

Sent to: **All regions**

Hydroclad™ is a high-performance, field repairable, third-party certified, cylinder rod coating for the most demanding applications. This best-in-class cylinder coating provides reliable anti-corrosion protection and impact resistance for increased uptime and enhanced cylinder operating efficiency.

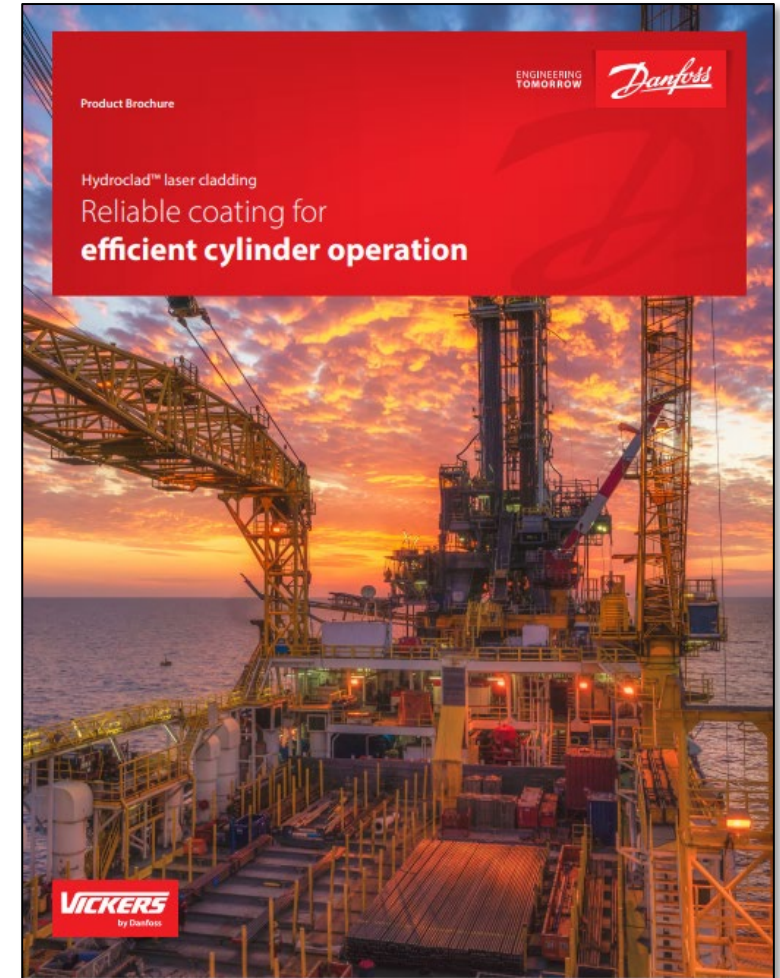
### Name change

Danfoss' Hydroclad™ laser cladding was previously known as Eatonite®. While the product remains the same, its name has been changed to Hydroclad in 2023. Hydroclad™ is a trademark of Danfoss A/S. Eatonite® is a registered trademark of Eaton Corporation. Eaton Corporation is not associated with either Hydroclad™ or Danfoss A/S.

### Benefits of Hydroclad laser cladding

- **Corrosion resistance** – Vickers by Danfoss cylinders have been in service on offshore oil rigs for more than 10 years
- **Flexibility without cracking** – Can be applied to cylinder rods up to 21 meters long without cracking.
- **Impact resistance and wear** – Withstands impact up to 32 joules (24 ft-lbs) of force without cracking
- **Field repairable** – Repair damaged coatings on-site

Brochure [LINK](#)



## Lead Time Update on Industrial Pumps - AMER


To provide more reliable delivery information, we are glad to inform you of the latest IPM product line lead times. The table below shows the current lead time on PVM product line to AMER Region.

Your satisfaction is important to us, and as we work down on our backlog and increase capacity, we will continue to reduce lead time. We will communicate any updates with you as appropriate.

Please contact your local sales or customer service representative with questions.

For support inquiries send email to: [industrialpumpsmotorsupport@danfoss.com](mailto:industrialpumpsmotorsupport@danfoss.com)

### Lead times- [LINK](#)

INDUSTRIAL PUMPS & MOTORS UPDATE 

ENGINEERING TOMORROW  
June 2023

**Lead Times on Industrial Pumps and Motors**

Region: AMER  
Product: PVM Pumps

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Region: AMER Product: PVM Pumps	06-2023
Products	Current LT (Workdays)
PVM045 Code B on Stock	<15
PVM 74/98/131/141 Code A on stock	<15
PVM code A – A Item	20
PVM code A – B Item	50
PVM code A – C Item	70

Parts with ABCQ, please refer to information on Powersource.



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## Lead Time Update on Industrial PVM Piston Pumps

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## Lead times- [LINK](#)

INDUSTRIAL PUMPS & MOTORS UPDATE

**Lead Times on Industrial Pumps and Motors**

ENGINEERING TOMORROW  June 2023

Region: AMER  
Product: PVM Pumps

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PVM 74/98/131/141 Code A on stock	<15
PVM code A – A Item	20
PVM code A – B Item	50
PVM code A – C Item	70

Parts with ABCQ, please refer to information on Powersource.

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## Speedy Delivery with Supermarket Industrial Valves

To further enhance product availability, our Searcy, AR plant is now offering a wide selection of Vickers by Danfoss **Directional Control Valves, Proportional Valves** and **Stak Valves** available with on-hand inventory.


This selection of model codes can be available within 10 working days at NO ADDITIONAL CHARGE. We will review the supermarket items upon request.

Submit the review request to IMC Product Support: [imcproductsupport@danfoss.com](mailto:imcproductsupport@danfoss.com)

## Supermarket valve list - [LINK](#)

INDUSTRIAL MOTION CONTROLS UPDATE

**Supermarket valves available from Searcy, AR USA**




ENGINEERING TOMORROW  
June 2023

To further enhance product availability, our Searcy, AR plant is now offering a wide selection of Vickers by Danfoss Directional Control Valves, Proportional Valves and Stak Valves available with on-hand inventory. This selection of model codes can be available within 10 working days at NO ADDITIONAL CHARGE. We will review the supermarket items upon request. Submit the review request to [imcproductsupport@danfoss.com](mailto:imcproductsupport@danfoss.com)

For questions or inquiries, please contact your account manager or customer service representative.

**Item and model codes available:**

Product Family	Item Number	Description
DG17V3	02-127343	DG17V 3 2C 60
	02-135316	DG17V 3 6C 60
	02-127344	DG17V 3 2N 60
DG4V4	02-337079	DG4V4-016C-M-U-B-5-10
	879249	DG4S4 012A B 60
	879135	DG4S4 012C B 60
	879159	DG4S4 016C B 60
	879237	DG4S4 012C U B 60
	880002	DG4S4 018C B 60
	02-337076	DG4V4-012C-M-W-B-5-10
	02-337520	DG4V4-016C-M-U-H-5-10
	02-337540	DG4V4-012C-M-U-B-5-10
	02-337545	DG4V4-018C-V-M-U-B-5-10
	STAK	694400
694412		DGMFN 3 Y A2W B2W 41
867332		DGMFN-5-Y-A2W-B2W-30
867364		DGMPC 5 ABK BAK 30
867335		DGMFN 5 X A2W B2W 30
870043		DGMFN 3 Z P2W 41
694414		DGMFN 3 X A2W B2W 41
870039		DGMX2 3 PP BW 5 40
867339		DGMPC 5 ABK 30
870040		DGMX2-3-PP-CW-5-40
870024		DGMPC 3 ABK 41
867324		DGMX2 5 PP BW 5 30



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1 of 2

# Rationalization of DG4V3S AC Valve with 100bar T-port Pressure

Please be informed that the Vickers by Danfoss DG4V3S AC-100 bar Directional Control Valve will be rationalized. Sales and production is discontinued effective today.


The replacement product for AC high performance models is the newly released DG4V3-160bar (2300 psi). The new model is currently available to order and meets/exceeds all performance requirements of the DG4V3S AC-100 bar. The only difference in these models is the T-port pressure, while form, fit, and function remain the same.

New model code: DG4V-3-2A-M-U-B8-60 (8 means 160bar T port pressure)

### Notes:


- All current open orders for DG4V3S AC 100bar tank pressure will be fulfilled with the current model code and future orders will be accepted and transitioned to the 160bar model code.
- Moving forward only the 160bar and 210bar tank pressures will continue to be available.

## Crossover Chart - [LINK](#)

INDUSTRIAL MOTION CONTROLS UPDATE  May 2023

Vickers\* by Danfoss  
**Industrial DG4V3 AC Valve with 160bar T-port pressure crossover chart**  
 Crossover from DG4V3S AC 100bar to DG4V3 AC 160bar

DG4V3S AC 100bar T-Port Pressure		DG4V3 AC 160bar T-Port Pressure	
Old part number	Old model code	New part number	New model code
02-311422	DG4V 3S 0AL M FTWL B5 60	833AN00364A	DG4V-3-0AL-M-FTWL-B8-60
02-109877	DG4V 3S 0A M FTWL B5 60	833AN00365A	DG4V-3-0A-M-FTWL-B8-60
02-109631	DG4V 3S 0A M FW B5 60	833AN00366A	DG4V-3-0A-M-FW-B8-60
02-137934	DG4V 3S 0A M U B5 60	833AN00345A	DG4V-3-0A-M-U-B8-60
02-109569	DG4V 3S 0BL M FTWL B5 60	833AN00367A	DG4V-3-0BL-M-FTWL-B8-60
02-109881	DG4V 3S 0BL M FTWL B5 60	833AN00367A	DG4V-3-0BL-M-FTWL-B8-60
02-109569	DG4V 3S 0BL M FTWL B5 60	833AN00367A	DG4V-3-0BL-M-FTWL-B8-60
02-109634	DG4V 3S 0BL M FW B5 60	833AN00368A	DG4V-3-0BL-M-FW-B8-60
02-109638	DG4V 3S 0B M FW B5 60	833AN00369A	DG4V-3-0B-M-FW-B8-60
02-109041	DG4V 3S 0B M U A5 60	833AN00297A	DG4V-3-0B-M-U-A8-60
02-109964	DG4V 3S 0C M FTWL B5 60	833AN00370A	DG4V-3-0C-M-FTWL-B8-60
02-109660	DG4V 3S 0C M FW B5 60	833AN00371A	DG4V-3-0C-M-FW-B8-60
02-147433	DG4V 3S 2A H M FW B5 60	833AN00372A	DG4V-3-2A-H-M-FW-B8-60
02-109646	DG4V 3S 2AL M FTWL B5 60	833AN00373A	DG4V-3-2AL-M-FTWL-B8-60
02-109626	DG4V 3S 2AL M FW B5 60	833AN00374A	DG4V-3-2AL-M-FW-B8-60
02-109830	DG4V 3S 2AL M U B5 60	833AN00298A	DG4V-3-2AL-M-U-B8-60
02-109627	DG4V-3S-2A-M-FPASWL-B5-6	833AN00375A	DG4V-3-2A-M-FPASWL-B8-60
02-109571	DG4V 3S 2A M FTWL B5 60	833AN00363A	DG4V-3-2A-M-FTWL-B8-60
02-137930	DG4V 3S 2A M FTWL B5 60	833AN00363A	DG4V-3-2A-M-FTWL-B8-60
02-109563	DG4V 3S 2A M FW B5 60	833AN00353A	DG4V-3-2A-M-FW-B8-60
02-109563	DG4V 3S 2A M FW B5 60	833AN00353A	DG4V-3-2A-M-FW-B8-60
02-109632	DG4V 3S 2A M U B5 60	833AN00292A	DG4V-3-2A-M-U-B8-60
02-110385	DG4V 3S 2BL M FTWL B5 60	833AN00376A	DG4V-3-2BL-M-FTWL-B8-60
02-110062	DG4V 3S 2B M FTWL B5 60	833AN00377A	DG4V-3-2B-M-FTWL-B8-60
02-109572	DG4V 3S 2B M FW B5 60	833AN00378A	DG4V-3-2B-M-FW-B8-60
02-354087	DG4V 3S 2C H M FTWL B5 6	833AN00379A	DG4V-3-2C-H-M-FTWL-B8-60
02-109690	DG4V 3S 2C M FPASWL B5 6	833AN00380A	DG4V-3-2C-M-FPASWL-B8-60
02-146822	DG4V 3S 2C M FTWL B5 60	833AN00381A	DG4V-3-2C-M-FTWL-B8-60
02-109820	DG4V 3S 2C M FTWL B5 60	833AN00358A	DG4V-3-2C-M-FTWL-B8-60
02-109820	DG4V 3S 2C M FTWL B5 60	833AN00358A	DG4V-3-2C-M-FTWL-B8-60
02-109575	DG4V 3S 2C M FW B5 60	833AN00356A	DG4V-3-2C-M-FW-B8-60
02-109670	DG4V 3S 2C M FW D5 60	833AN00382A	DG4V-3-2C-M-FW-D8-60
02-109686	DG4V 3S 2C M U B5 60	833AN00279A	DG4V-3-2C-M-U-B8-60
02-109026	DG4V 3S 2C M U D5 60	833AN00293A	DG4V-3-2C-M-U-D5-60

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## Shortened Lead Times for Top Selling Airflex CB Elements

We are pleased to announce the Airflex line of clutches and brakes has implemented a new production and scheduling system that will allow for reduced lead times on many clutch and brake (CB) elements out of the Brooklyn, Ohio manufacturing facility.

Beginning May 1 and over the next several months, more than 50 of the highest volume CB elements will be available in one week or less, subject to some volume limitations.

Please see the update bulletin for full details on the schedule, part numbers included, and maximum quantity allowed per customer per day.

Lead time update - [LINK](#)

INDUSTRIAL PROJECTS, SYSTEMS & SERVICES UPDATE ENGINEERING TOMORROW **Danfoss** May 2023

**Shortened lead times for high volume Airflex CB elements**

We are pleased to announce the Airflex line of clutches and brakes has implemented a new production and scheduling system that will allow for reduced lead times on many CB elements out of the Brooklyn, Ohio manufacturing facility.

Beginning May 1 and over the next several months, more than 50 of the highest volume CB elements will become available in one week or less, subject to volume limitations.

**CB element items, maximum quantities, and lead time effective dates:**

Effective May 1, 2023		
Part number	Part description	Maximum quantity
146481JB	3CB150 EL ASSY W/1 SC	4
142840JB	4CB200 EL ASSY W/1 S/C	20
142095IA	6CB200 EL ASSY, MSC, 1 I	5
142095JB	6CB200 EL ASSY W/ 1 S/C	40
142095JC	6CB200 EL ASSY, MSC, 1 I	2
142095JG	6CB200 EL ASSY W/ 2 S/C	3
142095JH	6CB200 EL ASSY, MSC, 1 I	5
145095JN	6CB200 EL WITH 1 S/C HI-	8
142096IA	8CB250 EL ASSY, MSC, 1 I	10
142096JB	8CB250 EL ASSY W/ 1 S/C	10
142096JC	8CB250 EL ASSY, MSC, SLO	5
142096JG	8CB250 ELEM ASSY W/2 S/C	4
142096JH	8CB250 EL ASSY, MSC, 2 I	10
142096SK	8CB250 EL ASSY, SPLIT	2
142096SS	8CB250 EL ASSY	2
142096TN	8CB250 EL ASSY	2
145096JU	8CB250 EL ASSY MSC W/COR	2
142197JA	10CB300 EL ASSY, MSC, 1	8
142197JB	10CB300 EL ASSY W/ 1 S/C	15
142197JC	10CB300 EL ASSY, MSC, SL	3
142197JG	10CB300 EL ASSY W/ 2 S/C	5
142197JH	10CB300 EL ASSY, MSC, 2	6
142197SS	10CB300 ELEM ASSY 1V-DB	3

**VICKERS** Danfoss A/S - Power Solutions - Industrial Division  
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1 of 2

# PVM045 Code B Pump launched

Vickers by Danfoss PVM series open-circuit piston pumps lead the industry in noise reduction, compact size and pressure rating. Engineered to take this renowned performance and reliability to new heights, the Code B design delivers enhanced components and features for maximum life and productivity. In addition, the new design standardizes housing and components to simplify manufacturing processes and reduce lead times.

### Key Features:

- Pressure Up to 315 bar
- 45 - 50cc/rev (2.75 - 3.05in3/rev)
- Variable Speed Drive Ready
- Options for No control, Pressure Control, Load sensing

Data Sheet - [LINK](#)

Technical Catalog - [LINK](#)

## Hydrokraft PVZ 130/180cc Pump with marine certification launched

The new marine certified Hydrokraft PVZ piston pump comes in two sizes – 130 cc/rev and 180cc/rev and come with an integrated Vickers by Danfoss KBF proportional valve. Developed for MAN Energy Solutions, the pump takes over the duties of the camshaft at the heart of the ship’s two-stroke engine’s electrohydraulic system.

The Hydrokraft PVZ pump is a proven solution for new installations and a drop-in replacement for existing ship engine applications.

- Continuous operating pressure of 300bar, maximum 450bar according to marine classification guidelines
- Built-in control via a Vickers by Danfoss KBF proportional valve
- 48,000-hour service life, while operating at full ratings
- Valve plate design enables the pumps to run both clockwise and counterclockwise.
- Additional check-valve block prevents cavitations during reverse operation.

Brochure/model code info > [LINK](#)

Product Data Sheet

ENGINEERING TOMORROW Danfoss

Hydrokraft®  
PVZ-130/180 with KBF proportional valve

Reliable, efficient control and actuation for ship engines

**Superior performance, reliability and control**

MAN Energy Solutions utilizes hydraulic piston pumps to take over the duties of the camshaft at the heart of their ship engine's electrohydraulic system. The high performing pumps control fuel injection and exhaust valve actuation that otherwise would be controlled by mechanical components. By providing continuously variable fuel injection and valve timing via hydraulic pumps, the camshaftless design has unlimited flexibility, enabling the intelligent engine to reduce fuel consumption and emissions.

The two-stroke engines are designed to run around the clock for years and the Hydrokraft PVZ pump is a perfect match to accompany these ships on their long journey. Pushing durability to new levels, the PVZ pump is engineered to perform its job for 48,000 hours in harmony with the ship's engine speed. In addition, when a ship is running astern, the direction of engine rotation needs to be reversed. Since the pumps are also driven by the engine's crankshaft, they are designed for both clockwise and counterclockwise operation.

**Features**

The Hydrokraft PVZ pump with integrated KBF proportional valves is a proven solution for new installations and a drop-in replacement for existing ship engine applications.

- Designed for drop-in replacement for competitor pump
- Continuous operating pressure of 300bar, maximum 450bar according to marine classification guidelines
- Built-in control via a Vickers by Danfoss KBF proportional valve
- Heavy-duty design ensures a 48,000-hour service life, while operating at full ratings
- Valve plate design enables the pumps to run both clockwise and counterclockwise
- Additional check-valve block prevents cavitations during reverse operation

**Certifications**

PVZ-130/180 Hydrokraft Pumps and KBF Valves are certified for marine applications. Contact your sales representative for information.

VICKERS by Danfoss

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AH4356479572an-000101



## AxisPro® proportional valves now offer Profinet protocol

AxisPro proportional valves now have expanded communication capabilities built into the high-end servo performance models (levels 2 & 3). With the addition of the popular Profinet protocol the valves will deliver precision control to an expanded range of applications.

The new protocol is in addition to existing CANopen support, making it even easier to integrate AxisPro valves into custom machines. Configured via Danfoss Pro-FX™ software tools, the valve's embedded intelligence simplifies traditionally complex setup and control operations, while the plug and play design reduces machine build time and installation costs.

### The AxisPro advantage:

With expanded communications, ease of setup and ability to predict maintenance issues, AxisPro valves reduce costs while increasing machine reliability and productivity.

Data Sheet - [LINK](#)

ENGINEERING TOMORROW 

Product Data Sheet

## AxisPro®

### Industrial proportional valves with Ethernet protocols

Expanded communication protocols: Profinet, EtherCAT®, Ethernet/IP\*



**Features**

Built on the proven KBS servo Proportional Valve technology, the new AxisPro™ Proportional Valve provides a range of control capabilities in a modular design.

- Enhanced connectivity with IOT enabled features
- AxisPro Level 2 & 3 products configurable via Pro-FX™ software tool for quick setup and real-time changes
- Pro-Fx software based on the popular CODESYS environment enabling custom developed solutions
- High dynamic performance enables open and closed-loop control applications
- LED lens provides on-valve diagnostics
- Best-in-class ingress protection rated to IP65 and IP67, and withstands 85C (185F) ambient temperature
- Experienced, trained application support teams in all regions

**Enhanced connectivity, expanded possibilities.**

AxisPro proportional valves, flagship of the Vickers by Danfoss line of industrial valves, now have expanded communication capabilities built into the high-end servo performance models (levels 2 & 3). With the addition of Profinet, EtherCAT®, and Ethernet/IP®, the protocols used by approximately 43% of the industrial market, the game-changing valves will deliver precision control to an expanded range of applications.

The new protocols are in addition to existing CANopen support and built-in diagnostics, further enhancing connectivity, and making it even easier to integrate AxisPro valves into custom machines. Configured via Danfoss Pro-FX™ software tools, the valve's embedded intelligence simplifies traditionally complex setup and control operations, while the plug and play design reduces machine build time and installation costs.

**The AxisPro advantage:** With expanded communications, ease of setup and ability to predict maintenance issues, AxisPro valves reduce costs while increasing machine reliability and productivity.

\* Profinet available now, EtherCAT and Ethernet/IP coming Q2 2023

© Danfoss | Power Solutions | Mar 2023 | Doc #

**Communication Protocols**

- CANopen - released
- Profinet - released
- EtherCAT - coming Q2 2023
- Ethernet/IP - coming Q2 2023

**Focus Applications**

- Press
- Primary metal
- Rubber and plastic
- Wood processing
- Pulp and paper
- Oil and gas
- Machine tools
- Factory automation
- Civil engineering



www.danfoss.com



## New US PVM Pump Stocking Program

To reduce lead times on Vickers by Danfoss PVM industrial pumps, we are introducing a new stocking program in the USA, from our Searcy, Arkansas facility. Standard lead time is 4 weeks.

These pumps also have the new "BY" feature which is a high-pressure shaft seal with adjustable maximum displacement and a covered thru-drive, enabling easy field conversions.

### Stocking program benefits

- Reduced lead time to 1-4 weeks
- All new part numbers for easy identification
- High pressure shaft seal (BY) feature


### Important notes:

- Order quantities greater than one piece may have longer lead time
- Standard pricing and rebates apply
- Available for orders shipped in the USA only

> [See PVM Series Piston Pumps](#)

### Stocking levels updated weekly

Vickers by Danfoss PVM Pump Stocking Levels  
6/23/2023



Item Number	Description	Port location	Flange	Shaft	Controller	Quantity On Hand
123AL00012B	PVM045ER05C2A31500001AB	Side	SAE B 2-bolt	SAE B Keyed	Compensator, high range	53
123AL00002B	PVM045ER05C2C315200001AB	Side	SAE B 2-bolt	SAE B Keyed	Load sense compensator, high range	58
123AL00018B	PVM045ER06C2A31500000AB	End	SAE B 2-bolt	SAE B-B Keyed	Compensator, high range	16
123AL00010B	PVM045ER06C2A31500001AB	Side	SAE B 2-bolt	SAE B-B Keyed	Compensator, high range	32
123AL00006B	PVM045ER06C2C315110001AB	Side	SAE B 2-bolt	SAE B-B Keyed	Load sense compensator, high range	64
123AL00008B	PVM045ER07C2C30200001AB-B000	Side	SAE B 2-bolt	SAE B 13t Splined	Load sense compensator, high range	9
123AL02537B	PVM045ER08C2A070000001AB	Side	SAE B 2-bolt	SAE B 15t Splined	Compensator, low range	16
123AL02522A	PVM074ER09G502BYA28000001AGA	Side	SAE C 4-bolt	SAE C Keyed	Compensator, high range	15
123AL02542A	PVM074ER09G502BYC25200001AGA	Side	SAE C 4-bolt	SAE C Keyed	Load sense compensator, high range	5
123AL02463A	PVM074ER10G502BYA38000001AGA	Side	SAE C 4-bolt	SAE C-C Keyed	Compensator, high range	14
123AL02464A	PVM074ER10G502BYC28200001AGA	Side	SAE C 4-bolt	SAE C-C Keyed	Load sense compensator, high range	10
123AL02495A	PVM074ER10G502BYL2820301AGA	Side	SAE C 4-bolt	SAE C-C Keyed	Power Limiter	8
123AL02492A	PVM074ER11G502BYC28200000AGA	Side	SAE C 4-bolt	SAE C 14t Splined	Load sense compensator, high range	17
123AL02529A	PVM098ER09G502BYA07000001AGA	Side	SAE C 4-bolt	SAE C Keyed	Compensator, low range	45
123AL02512A	PVM098ER09G502BYA28000001AGA	Side	SAE C 4-bolt	SAE C Keyed	Compensator, high range	53
123AL02530A	PVM098ER09G502BYC07110001AGA	Side	SAE C 4-bolt	SAE C Keyed	Load sense compensator, low range	16
123AL02521A	PVM098ER09G502BYE25200001AGA	Side	SAE C 4-bolt	SAE C Keyed	Load sense compensator, high range	22
123AL02535A	PVM098ER09G502BYE00200001AGA	Side	SAE C 4-bolt	SAE C Keyed	Industrial Compensator	10
123AL02465A	PVM098ER10G502BYA28000001AGA	Side	SAE C 4-bolt	SAE C-C Keyed	Compensator, high range	29
123AL02469A	PVM098ER10G502BYC28200001AGA	Side	SAE C 4-bolt	SAE C-C Keyed	Load sense compensator, high range	21
123AL02500A	PVM098ER10G502BYE00200001AGA	Side	SAE C 4-bolt	SAE C-C Keyed	Industrial Compensator	22
123AL02494A	PVM098ER10G502BYL28205001AGA	Side	SAE C 4-bolt	SAE C-C Keyed	Power Limiter	9
123AL02525A	PVM098ER11G502BYA25000001AGA	Side	SAE C 4-bolt	SAE C 14t Splined	Compensator, high range	30
123AL02526A	PVM098ER11G502BYC25200001AGA	Side	SAE C 4-bolt	SAE C 14t Splined	Load sense compensator, high range	11
123AL02538A	PVM131ER10G502BYA25000001AGA	Side	SAE C 4-bolt	SAE C-C Keyed	Compensator, high range	50
123AL02540A	PVM131ER10G502BYC25200001AGA	Side	SAE C 4-bolt	SAE C-C Keyed	Load sense compensator, high range	20
123AL02523A	PVM131ER10G502BYE00200001AGA	Side	SAE C 4-bolt	SAE C-C Keyed	Industrial Compensator	10
123AL02572A	PVM131ER11G502BYA38000001AGA	Side	SAE C 4-bolt	SAE C 14t Splined	Compensator, high range	32
123AL02541A	PVM131ER11G502BYC23200001AGA	Side	SAE C 4-bolt	SAE C 14t Splined	Load sense compensator, high range	5
123AL02462A	PVM131ER11G502BYA28000001AGA	Side	SAE C 4-bolt	SAE D Keyed	Compensator, high range	15
123AL02470A	PVM131ER11G502BYC28200001AGA	Side	SAE C 4-bolt	SAE D Keyed	Load sense compensator, high range	5
123AL02486A	PVM131ER11G502BYL2820301AGA	Side	SAE C 4-bolt	SAE D Keyed	Power Limiter	6
123AL02599A	PVM131ER11G502BYC28200001AGA	Side	SAE C 4-bolt	SAE C 14t Splined	Load sense compensator, high range	0
123AL02518A	PVM141ER10G502BYA25000001AGA	Side	SAE C 4-bolt	SAE C-C Keyed	Compensator, high range	71
123AL02517A	PVM141ER10G502BYC25200001AGA	Side	SAE C 4-bolt	SAE C-C Keyed	Load sense compensator, high range	20
123AL02571A	PVM141ER11G502BYE00200001AGA	Side	SAE C 4-bolt	SAE C 14t Splined	Industrial Compensator	11
123AL02468A	PVM141ER11G502BYA23000001AGA	Side	SAE C 4-bolt	SAE D Keyed	Compensator, high range	30
123AL02467A	PVM141ER11G502BYC23200001AGA	Side	SAE C 4-bolt	SAE D Keyed	Load sense compensator, high range	16
123AL02490A	PVM141ER11G502BYL23205001AGA	Side	SAE C 4-bolt	SAE D Keyed	Power Limiter	6

Note: All pumps have SAE flange ports, and all side ported pumps have a covered thru-drive.

Classified as Business

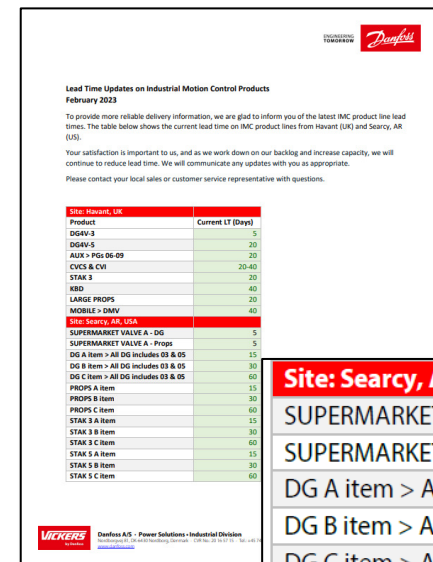
## Lead Time Updates on Industrial Motion Control Products

To provide more reliable delivery information, we are glad to inform you of the latest IMC product line lead times. The table below shows the current lead time on IMC product lines from Havant (UK) and Searcy, AR (US).

Your satisfaction is important to us, and as we work down on our backlog and increase capacity, we will continue to reduce lead times. We will communicate any updates with you as appropriate.

Please contact your local sales or customer service representative with questions.

Marketing Bulletin - [LINK](#)



Site: Searcy, AR, USA	
SUPERMARKET VALVE A - DG	5
SUPERMARKET VALVE A - Props	5
DG A item > All DG includes 03 & 05	15
DG B item > All DG includes 03 & 05	30
DG C item > All DG includes 03 & 05	60
PROPS A item	15
PROPS B item	30
PROPS C item	60
STAK 3 A item	15
STAK 3 B item	30
STAK 3 C item	60
STAK 5 A item	15
STAK 5 B item	30
STAK 5 C item	60

## DMV (Directional Mobile Valve) solution for mobile applications

The DMV directional control valve is a sectional valve based upon the proven Vickers by Danfoss KDG4V-3 high performance valve design, for control of velocity, direction, and acceleration or deceleration in mobile applications.

The DMV has direct-acting electric solenoid control for spool position and a closed-center, parallel or series circuit design that can also function as an open-center circuit by utilizing unloading inlet options. The sectional design enables you to configure a valve from a variety of modules to create the perfect solution for your application.

Data Sheet - [LINK](#)

ENGINEERING TOMORROW

Product Data Sheet

## Vickers® by Danfoss DMV Directional Mobile Valve



**Proportional directional valve solution for mobile applications**

The DMV directional control valve is a sectional valve based on the proven Vickers by Danfoss KDG4V-3 high performance valve design, for control of velocity, direction, and acceleration or deceleration in mobile applications. The DMV has direct-acting electric solenoid control for spool position and a closed-center, parallel or series circuit design that can also function as an open-center circuit by utilizing unloading inlet options.

**Versatile, modular design**

The DMV valve offers versatility and flexibility through a sectional design, enabling you to configure a valve from a variety of modules to create the perfect solution for your application. Use up to six sections (or twelve sections\*) per bank assembly to create custom, multi-functional circuits through optional banking functions such as inlet and work port options. In addition, auxiliary manifold blocks can be included in the stack as circuit needs arise, and the valve sections can themselves be added to larger, more complex manifold blocks to provide directional control.

\* Depends upon intermediate module configurations

**Features**

- Provides load sense and PO check capability for closed and open circuit solutions
- The fully encapsulated solenoid coils are impervious to common industrial fluids. Coils can be removed and replaced quickly and easily
- Working sections are NFPA fatigue rated at 300 bar (4350 psi) for improved reliability and performance
- Add features to sections to create perfect solution, including: Service line reliefs, load sensing checks, pilot operated checks, inlet pressure compensation cartridge valves.
- Ability to provide various voltage control and connection options. IP65/67 coils ratings, dependent upon connection.
- The ON/OFF soft shift feature is also available to provide smoother control of actuator acceleration and deceleration than is possible with conventional solenoid valves. The result is minimum hydraulic shock, more reliable systems with longer component life and less downtime.

**Specifications**

- Pressure - Up to 300 BAR (4350 psi) service
- Flow - Up to 60 LPM (15 gpm)
- Sections - Up to 6 sections with inlet module and 12 with auxiliary modules.

**Applications**

- Aerial work platforms
- Mini-excavators
- Lawn tractors
- Backhoes
- Telehandlers
- Material handling equipment

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**Thank you!**

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