

Analog PVE Series 7

# PVE Series 7 PVG actuators Superior reliability for all conditions

**40** years

of experience with  
actuator technology.





# Inspired by **your needs**

The PVE S7 is inspired by customers and their challenges. We know that reliability, performance, precision and robustness are the key requirements when an actuator is put to the test. Our ambition is always to exceed expectations – and we want to do just that with the updated features of the PVE S7.

“We know that the key concerns of our customers are reliability, performance, precision, robustness and a wide temperature range.”

- Knud Meldgaard Jensen  
Global Product Marketing Manager, Danfoss



**Engineered**  
for superior  
**reliability**





# Trust these **proven-in-use** technologies

When it comes to actuators, only one thing really counts: reliable operation in all conditions. And it is not enough to simply trust an actuator – you need proof that it can live up to its promise.

The new PVE Series 7 has a number of proven-in-use features that deliver the high reliability expected of a Danfoss Power Solutions product.

## **Microcontroller with embedded software algorithms**

The upgrade to embedded software algorithms ensures increased repeatability and high performance of the PVE S7 actuator.

## **Robustness from potting and encapsulation**

The robustness of the PVE S7 is further ensured by extensive and proven potting competence of Danfoss, and the superior corrosion protection on all metal parts. Moreover, encapsulation makes sure the electronics are completely sealed, and that nothing will interfere with the performance – even in the toughest conditions.

## **Increased diagnostic coverage**

The enhanced spool position sensor with dual demodulator, increases the diagnostic coverage and makes the PVE S7 even more safe and reliable.

## **Robust in extreme conditions from -40 to +90 °C**

The PVE S7 has an increased temperature range which makes it ready for the toughest conditions anywhere in the world.

## **Extreme control: like reaching with your own hand**

The precision and performance of the PVE S7 is second to none. Hydraulic motors and cylinders have never been controlled more accurately than with the PVE S7.

## Technologies

from 3 proven-in-use  
PVE Series ensure  
the reliability of the  
PVE S7.



# Tomorrow's actuator – today!

The PVE S7 design is based on the existing, highly successful PVE series. Danfoss Power Solutions has supplied customers with a wide range of electrical actuators for decades, and our vast technical expertise forms a solid foundation for the evolution of this new product. The result?

A technically advanced and highly future-proof actuator engineered on the best from the past and ready for the demands of tomorrow.

# Trouble free upgrade

An upgrade to the PVE S7 will keep your machines running reliably, precisely and robustly – ready for tomorrow’s challenges. The new model is 100% backwards compatible with Series 4, and will easily replace Series 4 providing you with all the new benefits.

## **Worldwide support – only a phone call away**

You can rely fully on our technical support and know-how during the upgrade process – we are here to help in any way we can.

You or your colleagues have already received a link to register for our micro site where you can download all the relevant support material.

## PVE S7 analog versions

---



### **PVEH, PVES**

Proven-in-use 4 solenoid valve bridge technology for superior performance and precision.



### **PVEO, PVEA, PVEM**

2 solenoid valve bridge design that makes the PVE even more compact.

### **PVEO, PVEM**

New, patented 3 way solenoid valve logic.

### **PVEA**

Proven-in-use 2 way solenoid valve logic.

## About Danfoss Power Solutions

**Danfoss Power Solutions** is a global manufacturer and supplier of high-quality hydraulic and electronic components. We specialize in providing state-of-the-art technology and solutions that excel in the harsh operating conditions of the mobile off-highway market. Building on our extensive applications expertise, we work closely with you to ensure exceptional performance for a broad range of off-highway vehicles. We help OEMs around the world speed up system development, reduce costs and bring vehicles to market faster.

Danfoss Power Solutions – your strongest partner in mobile hydraulics.

### Products we offer:

- Bent Axis Motors
- Closed Circuit Axial Piston Pumps and Motors
- Displays
- Electrohydraulic Power Steering
- Electrohydraulics
- Hydraulic Power Steering
- Integrated Systems
- Joysticks and Control Handles
- Microcontrollers and Software
- Open Circuit Axial Piston Pumps
- Orbital Motors
- PLUS+1® GUIDE
- Proportional Valves
- Sensors
- Steering
- Transit Mixer Drives

Wherever off-highway vehicles are at work, so is Danfoss Power Solutions. We offer you expert worldwide support for ensuring the best possible solutions for outstanding performance. And with an extensive network of Global Service Partners, we also provide you with comprehensive global service for all of our components.

Go to [www.powersolutions.danfoss.com](http://www.powersolutions.danfoss.com) for further product information.

#### Danfoss Power Solutions (US) Company

2800 East 13th Street  
Ames, IA 50010, USA  
Phone: +1 515 239 6000

#### Danfoss Power Solutions ApS

Nordborgvej 81  
DK-6430 Nordborg, Denmark  
Phone: +45 7488 2222

#### Danfoss Power Solutions GmbH & Co. OHG

Krokamp 35  
D-24539 Neumünster, Germany  
Phone: +49 4321 871 0

#### Danfoss Power Solutions Trading (Shanghai) Co. Ltd.

Building #22, No. 1000 Jin Hai Rd  
Jin Qiao, Pudong New District  
Shanghai, China 201206  
Phone: +86 21 3418 5200