

ENGINEERING  
TOMORROW

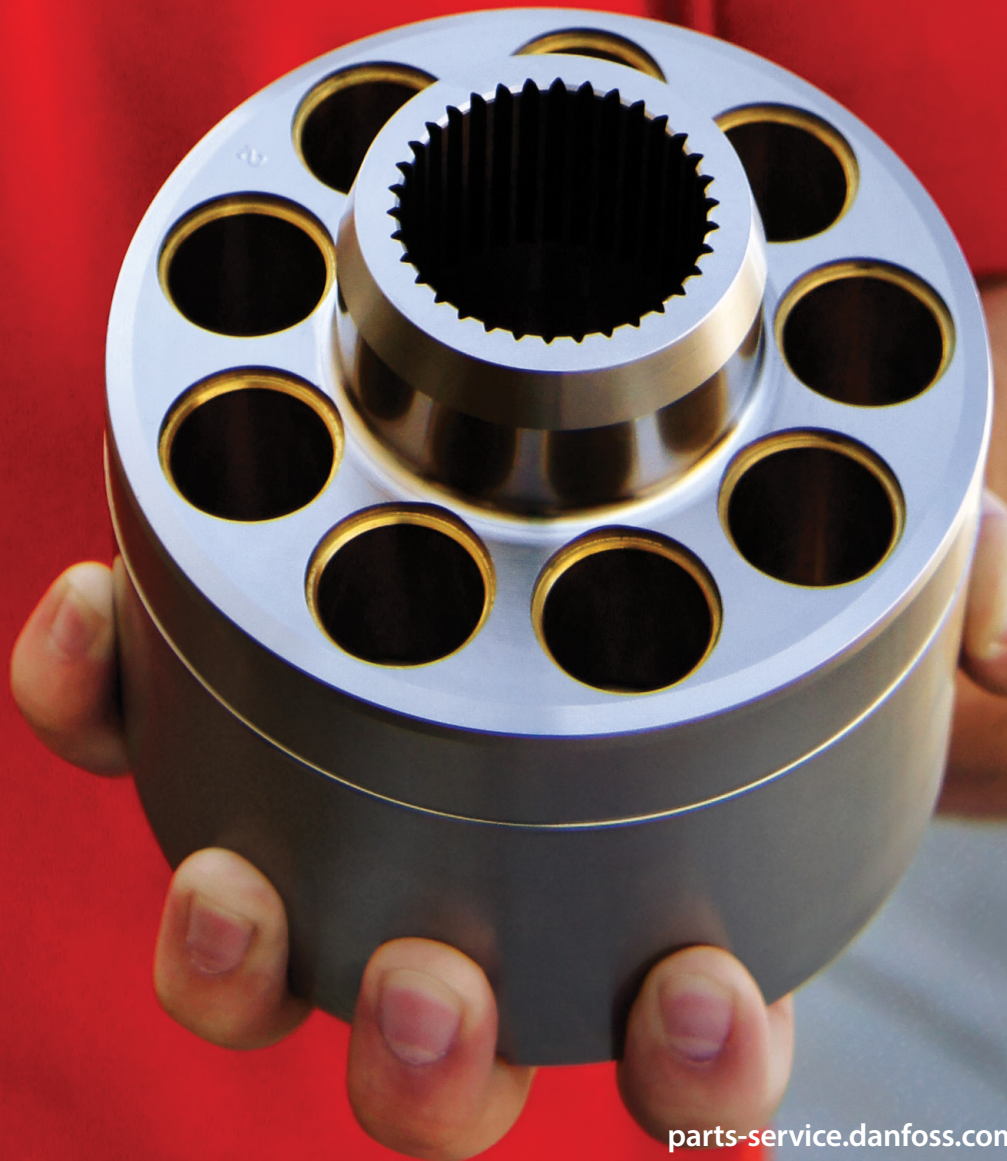
*Danfoss*

# Significantly reduce your Total Cost of Ownership with **genuine parts**

Drive higher performance with quality Danfoss components

Increase the life span  
of your system by  
as much as

**50%**



[parts-service.danfoss.com](http://parts-service.danfoss.com)

# No **time** to spare. No room for error.

And on top of that, no money to lose. When you've got a demanding job and a tight deadline, every second matters. Only genuine Danfoss parts are manufactured to our own demanding specifications and exacting tolerances. Only parts with the Danfoss brand will optimize machine performance, prevent catastrophic failure and system contamination, and improve your bottom line. And when uptime is everything, every part matters.



More than

**400**

distribution and  
sales partners across  
the globe.



## **With genuine Danfoss parts,** you can expect exceptional performance, reliability, safety and product life.

You expect the highest level of quality and reliability from your equipment so you can maximize productivity and drive higher performance to benefit your bottom line. The components and systems within your equipment play an important role in your success.

Inferior-quality parts may offer minimal cost savings up front, but they can dramatically impact performance and endurance, leading to equipment breakdown or failure down the road. The result is increased downtime, a loss of productivity and added costs. All of these factors contribute to increased total cost of ownership over the life of the part.

Avoid the pitfalls associated with using inferior-quality parts. Choosing genuine Danfoss products engineered based on original designs and specifications ensures you are taking advantage of the expertise that went into creating that component. Genuine Danfoss components, manufactured in our ISO certified facilities, help you minimize risks and potential downtime, improve system performance and efficiency, and provide longer life — ultimately saving you time and money.

### **Inferior components will cost you**

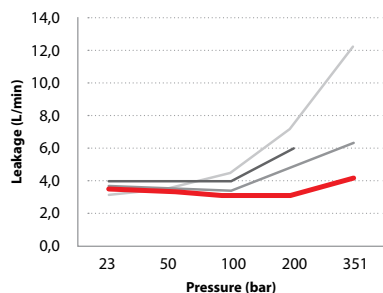
Many of the inferior-quality components have major dimensional and material discrepancies that can seriously impact overall capabilities and system performance. By investing in quality components, you are making a commitment to protect your bottom line. Genuine Danfoss products ensure greater reliability, longer component life, and safe and effective performance to help you get the job done.



**These non-genuine parts failed standard quality and endurance tests**

# We've done the research, so you don't have to.

Here are some startling examples of the differences between Danfoss genuine products and non-genuine parts.



## Leakage

To demonstrate our genuine product value, we tested our Series 20 pumps and motors against three lower-quality alternatives. The results of the internal leakage measurements showed that an investment in genuine, quality components, ultimately pays dividends over the life of the product.

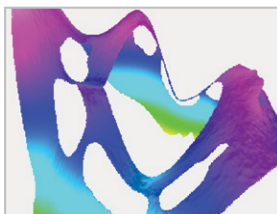
- ▶ Danfoss Series 20 pumps and motors, at 2800 rpm (in red), had fewer leaks than our competitors.



## Hollow components

Not only was this imitation piston out of spec, it was also found to be hollow inside. This can result in lost efficiency and a shorter life cycle — costing the machine owner time and money.

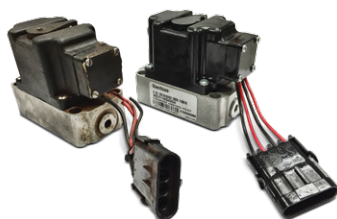
- ▶ This non-genuine piston is hollow inside.



## Surface deviation

This image, taken in our metallurgy lab, is a demonstration of the surface flatness of a non-genuine valve plate. This particular sample is more than 50 percent out of specification — which could result in catastrophic failure and total failure of the application — and complete contamination of the entire hydraulic system.

- ▶ A surface evaluation of an off-market valve plate.



## A non-genuine “rebuilt” product

The external differences of these controls are striking, but what we found inside was even more so: a decomposing silicone product, a bogus serial number, poorly done soldering, an incorrect o-ring and incorrect screws — that were over-torqued to the point that the plate was damaged.

- ▶ An imitation PCP (left) next to the Danfoss PCP (right).



## All filters are not alike

The Danfoss genuine filter stands out with heavier construction, wire mesh over the folds, and more folds — resulting in 13 percent more filter material. The genuine filter not only gives you superb filtration and maximum efficiency, but also prevents expensive repairs and downtime due to contamination.

- ▶ A non-genuine filter (left) and a genuine Danfoss filter (right).

# The many benefits of Danfoss genuine parts come down to a single outcome: **your improved bottom line.**



## Component and system efficiency

A genuine product engineered from quality materials contributes to component and system efficiency. With lesser-quality parts, a decrease in part efficiency can cause reduced working speed. One of our largest customers determined a loss of **5 percent** hydraulic system efficiency reduces the working speed of an excavator by **1/4 day per week**. Danfoss replacement parts hold tighter tolerances for maximum efficiency, so you can count on the same high quality and performance.



## Preventing failure or breakdown

Preventing component failure is critical because reducing repair and replacement costs has a direct impact on your bottom line. A part designed for long-lasting durability will result in a greater return on investment and improved life-cycle cost. Our testing shows that the Series 20 parts held up after use, while the comparison parts suffered heavy wear and breakdown caused by material that is out of specification. This can result in complete failure of the hydraulic system.



## Reduced noise pollution

Components designed to reduce noise pollution contribute to improved operator comfort and help you meet critical noise regulations. The Danfoss valve plate is optimized to reduce noise pollution by **75 percent** — while still providing exceptional efficiency. Compare this to a lesser-quality alternative, which can be up to **four times louder** at idle.



## Safety

Using genuine Danfoss parts ensures efficiency and productivity of your equipment, but also the safety of equipment users. The risks associated with using inferior units outweigh any initial cost savings, jeopardize your efficiency, and increase the risk of field failures and accidents. Look for quality components that are performance tested to original factory specifications — so you can safely and effectively get the job done.



## Reduced inventory and expert support

Save money and space by reducing the product inventory you keep on hand, thanks to off-the-shelf availability from more than 400 Danfoss service partners around the world. You also get expert technical support from certified, trained Danfoss technicians who can provide technical advice on service issues and assistance in identifying the correct spare parts.



## Environmentally friendly

With no lead and Chrome 6 in all bronze parts, genuine Danfoss components ensure that products are safe for the environment, which helps reduce the financial risk that can stem from related fines or lawsuits. In addition, the Danfoss remanufacturing program recycles and reclaims component cores, which contributes to a lower environmental impact and as much as **30 percent lower** total cost of ownership.

Legacy brands we support:



[parts-service.danfoss.com](https://parts-service.danfoss.com)

## 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 [powersolutions.danfoss.com](http://powersolutions.danfoss.com) for further product information.

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