

# Back to New!

Rexroth's Proportional Valve Repair and Exchange Program adds to our reliability

**BACK TO  
NEW**



# Repair, exchange, or refurbish your proportional valve with reliable Rexroth Service – the Original!

Put Rexroth’s high level of technical expertise, coupled with superior testing equipment, state-of-the-art laboratory, and certified technicians to work for you to evaluate your wind turbine proportional valve

As the global market leader in hydraulics, Rexroth provides services that include technical support with factory trained and qualified personnel, strategically located stock of commonly needed spares, and factory repair and field service capabilities using Rexroth trained technical experts with years of field experience in customer service/support.

## Take advantage of Rexroth’s repair and exchange program

Rexroth, the world’s most recognized manufacturer of fluid power components, guarantees your wind turbine the best value package anywhere when you trade up to a Rexroth proportional valve.

### Send us a qualifying competitors’ proportional valve

and we will give you an additional 25% discount when you order. Trade up to the most reliable proportional valve with a new Rexroth 4WRPE or 4WREE!

**Order a backup valve** together with a replacement valve and save 15% with a trade-up incentive.

Qualifying Model	Manuf.	Rexroth Model for Exchange
KBFDG4V-5-2C50N25-Z-M1-PC7-H7-2* KBFDG4V-5-2C70N-Z-M2-PC7-H7-2*	Eaton Vickers	4WREE-10 or 4WRPE-10-3X
KBFDG4V5-2C75N45-Z-M1-PC7-H7-11-EN123	Eaton Vickers	4WREF-10
DLK20R-TEBSC-140-L71/Y	Atos	4WRPEH-10
DF3P *****	Parker	4WRPE-10-3X

## Repair and evaluation services

Our comprehensive hydraulics design knowledge guarantees that expert repairs are carried out on a cost-effective basis. We check and repair exclusively with original spare parts according to manufacturer specifications.

### Evaluation

When the valve arrives for evaluation, it is first inspected for any obvious external or visible damage and/or defects to the body, the end caps and the amplifier. The repair specialist will look for missing amplifier mounting bolts, missing head cap atop the valve, the amplifier screws, the end cap fasteners, the Amphenol connector (pins and/or socket), shipping plate, broken or open coil connections (that can ingress contamination), dirt, debris, signs of any attempts to open the valve, damaged, indented or sheared body parts, and leakage in general. Care must be taken to ensure that the valve is not in an external condition that voids warranty. The inspection report is then filed detailing the arrival condition.

The valve is then internally inspected for spool, body and solenoids, and LVDT prior to mounting on the test stand for a performance evaluation.

◀ **Contact your Rexroth Energy Technology Applications Engineer or repair service team to see if your turbine proportional valve qualifies for this program.**



▲ **Four hydraulics repair Centers of Technology and Competence in the U.S.A. are located in Bethlehem, PA, Columbus, OH, Houston, TX, and Dallas, TX**

The valve is evaluated in dynamic performance tests that include flow, hysteresis, linearity, gain, pressure null shift, pilot and null leakage, null adjust, and cross over pressure tests.

### Repair

If the valve needs a major repair (categories of that involve electronics or spool assembly), the LVDT and/or spool/coil assembly is rebuilt.

**Electronics repair** – For amplifier on-board electronics, the procedure requires replacing parts (magnets, coils, armature subassembly, pole pieces and shims). In general, whenever an amplifier is opened up this constitutes a major repair, since setting up adjustments and the internal amplifier components is a meticulous, subtle and intricate process.

**Spool assembly repair** – The other major repair is a spool assembly that involves checking the metering edges to determine if valve replacement is necessary. This type of repair can happen due to excessive leakage indicative of hydraulic power wastage, or worn out metering edges due to long use of valves.

Once the major repair is completed, the repair personnel would then test the valve to make sure that the factory recommended specs are restored.

If you use the repair price for the 4WRPE or 4WREE on your purchase order, you will automatically be billed at the *Clean & Calibrate & Refurbish* price if repairs are not required. An evaluation fee will be charged if the customer elects not to proceed with the repair after the repair/evaluation process has been started, or if the returned component test specifications have been completed.

### Testing

Prior to delivery, every repaired unit is tested up to full loads according to the most stringent quality criteria, with relevant reports being provided. Fee-based test and evaluation reports are available. We also offer consistent quality standards for emergency and express repairs.



### Clean & Calibrate & Refurbish service

When the evaluation is completed and it is determined that the valve does not need a major repair, the cleaning services are performed. These can include replacing all the seals and O-rings, performing a complete flushing of the body, flushing the LVDT core tube, coil adjusts if required, and null adjusts. The valve is tested for performance once again to ensure that it meets the factory specs.

### Turnaround Times

24-hour, 72-hour, and 10-day service time frames start when the product and purchase order are received at our repair facility, and end when the repaired product is shipped. For Emergency and 72-hour service, we reserve the right to substitute a new or remanufactured valve at repair prices.

### 2-Year Repair Warranty



Each time you send your Rexroth proportional valve to us for quality replacement parts or *Clean & Calibrate & Refurbish* service, our First Choice Repair Program automatically provides a 2-year warranty.

Why? We are confident in our products, our capabilities, and our excellent service!

Warranty issues will be evaluated at the repair facility. Return all products with a purchase order per our program definition, or once quoted. If Warranty Service is verified, a no-charge invoice will be issued to close out your purchase order. Please note, product evaluation and repair cannot begin without your purchase order.

**Bosch Rexroth Corporation**

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Helpdesk 24/7: **1-800-REXROTH**

Many companies deliver repairs.  
Only Bosch Rexroth delivers  
original repair.

**Proportional Valve Repair  
and Exchange Program –  
Your benefits:**

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- ▶ Standard, priority, rush, and after hours repairs
- ▶ Free shipping on paid repairs – standard ground shipment only
- ▶ Fee-based test and evaluation reports available
- ▶ 5 regionally-based service/support technical sales experts located in each of the key wind power sectors
- ▶ Trade-up & Exchange Program
- ▶ Core Return & Credit applicable to receive selected price levels
- ▶ Dedicated high performance test stands

**Contact your Rexroth Energy Technology  
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