

Rongyuanhai Marine Equipment Co., Limited

上海嵘源流体设备有限公司



Company philosophy:

- Confidence
- Integrity
- Craftsmanship
- Customer First
- Quality Above All



A corner of the factory



◆ Performance Test



◆ Performance Test



◆ Holding



◆ Proportional Valve Test



◆ Main Worksop



◆ Machining



◆ Conference Room

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PART 01 Hydraulic pump repair service

We specialize in the repair of control pumps for ME engines, including:

- REXROTH A4VSO 40 (71.125.180.250.355.500.750) HS3 /HS4 /HM2C
- REXROTH A10VSO 18 (28.45.71) DR
- PARKER PV016 to PV028.PV032 to PV046.PV063 to PV092.PV140 to PV180
- PARKER PV6046.PV6054.PV6070.PV6089
- EATON PVWS 250 (360.500.750)



Successors

Bosch Rexroth 4WRPE

- 5252908-6 (8 L/min, 40-180 ccm)
- 5252916-9 (18 L/min, 250-500 ccm)

Predecessors

Parker DFplus (ME-300 bar only)

- 5262315-8 (12 L/min, 40-71 ccm)
- 5235825-4 (25 L/min, 125-180 ccm)
- 5237088-3 (40 L/min, 250-500 ccm)

Bosch Rexroth STW (ME-210 bar only)

- 1747342-3 (32 L/min, 125-180 ccm)
- 1747343-5 (40 L/min, 250-355 ccm)
- 1747341-1 (63 L/min, 500-750 ccm)

4WRPE DFplus

STW0048 STW0070

Predecessor
IW9

Successor
AWAX

AWAX

- 5237894-6 (AWAX004D09, 71 ccm and 250-1000 ccm)
- 5237984-5 (AWAX004D10, 40 ccm and 125-180 ccm)

Size A4VS	71	40/125/180	250 ... 1000
Mat.-No. Sensor	① R902477806	① R902477807	① R902477808
Additional Parts	③ ④		

Bosch Rexroth STW

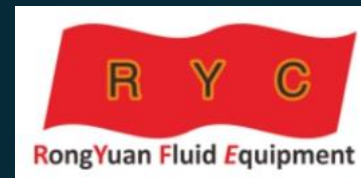
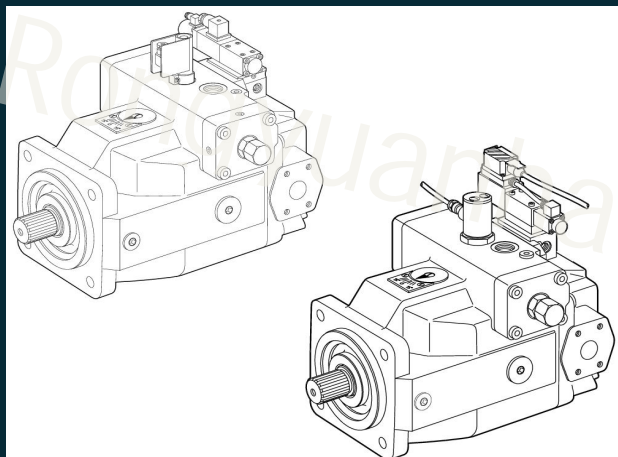
Parker DFplus → Bosch Rexroth 4WRPE

IW9 feedback sensor

AWAX feedback sensor

Old Configuration

New Configuration



Applications:

- These pumps deliver high-pressure hydraulic oil for fuel injection boosters, exhaust valves, and cylinder liner lubrication. They are designed to operate in both clockwise and counterclockwise directions to support engine maneuvering.

Scope of Services:

- Factory or onboard overhaul
- Retrofit and upgrade solutions
- Remote technical support
- Supply of original pump assemblies, accessories, overhaul kits, proportional valves, and sensors

Service features



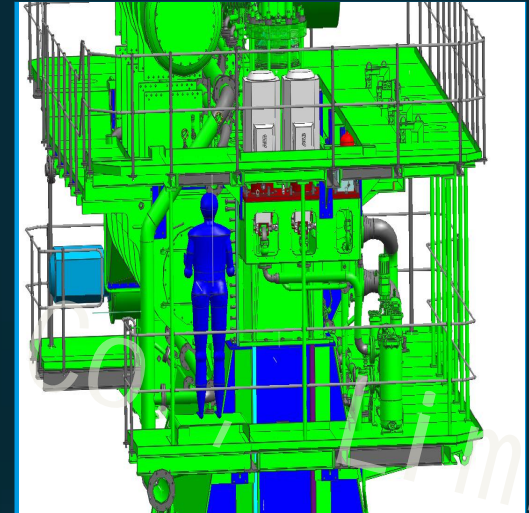
Expert technical team with rapid diagnostics



Efficient maintenance process from disassembly to testing



Use of original factory parts for reliable performance



Customized solutions for unique faults or requirements

Maintenance case list



◆ Receive pre-inspection



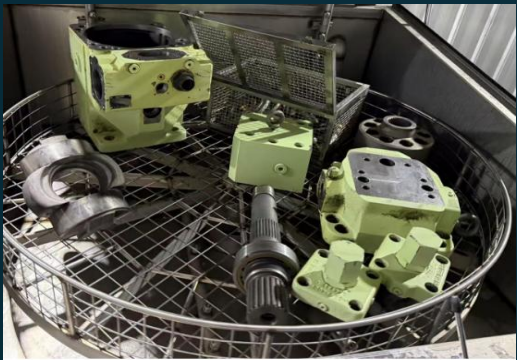
◆ Replacement of accessories



◆ Performance test



◆ Disassembly and inspection



◆ High-temperature automatic cleaning



◆ Prepare for shipment

PART 02

Hydraulic valve repair service



We repair control valves for ME engines, including:

● MAN B&W

ELFI-B1-20

ELFI-V1-20

● MAN B&W

ELFI-B2-30

ELFI-V2-30

● MAN B&W

ELFI-B3-45

ELFI-V3-45

● MAN B&W

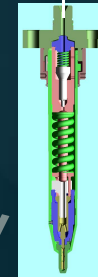
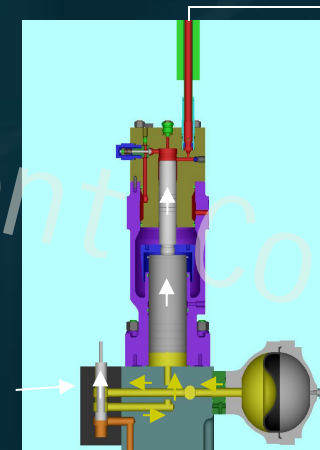
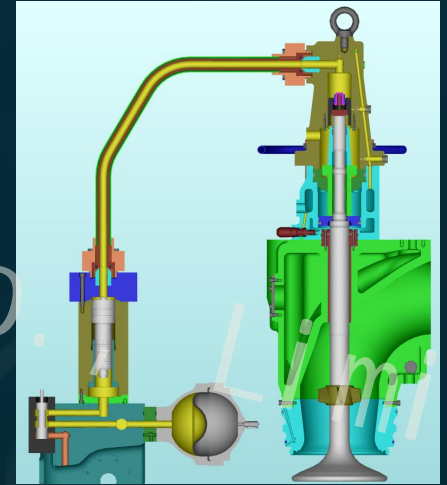
FIVA-I-45

FIVA-II-60

● Bosch Rexroth

FIVA 1000

FIVA 2000



Limite d

Overview of Hydraulic Valves:

Function of the FIVA valve

- FIVA (Fuel Injection Valve Actuation) valves are precision components that control both fuel injection and exhaust valve actuation in ME engines.



Scope of repair services

- Factory or onboard overhaul
- Retrofit and upgrade solutions
- Remote technical support

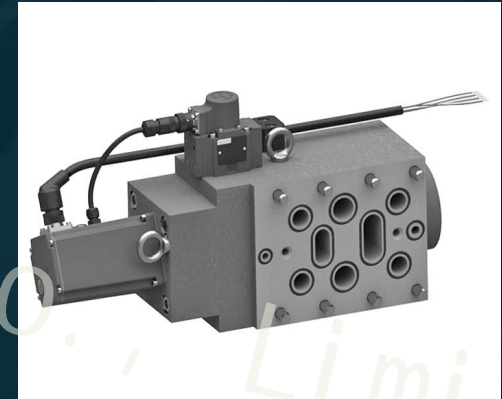
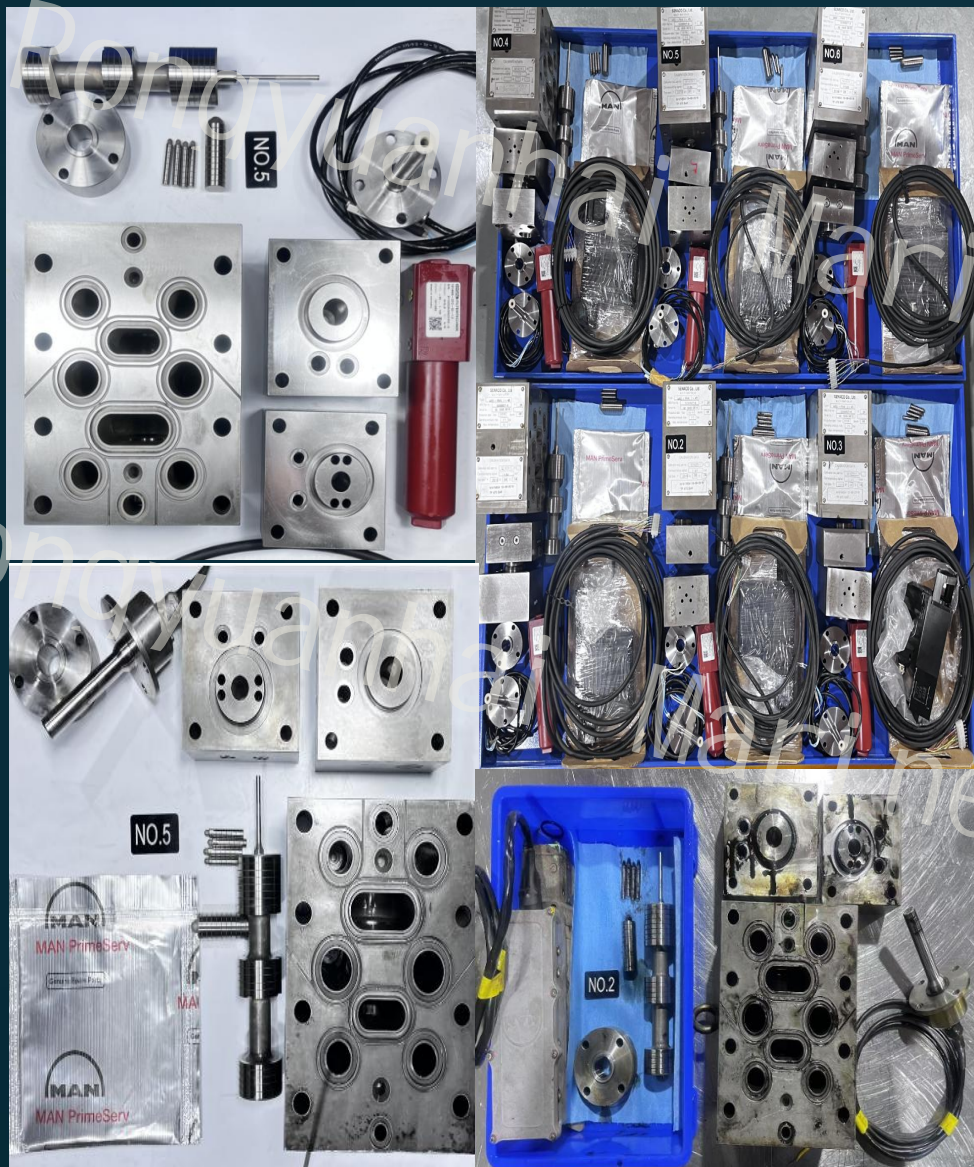
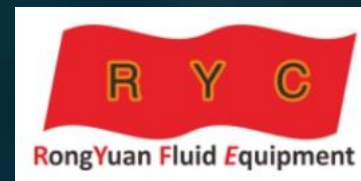


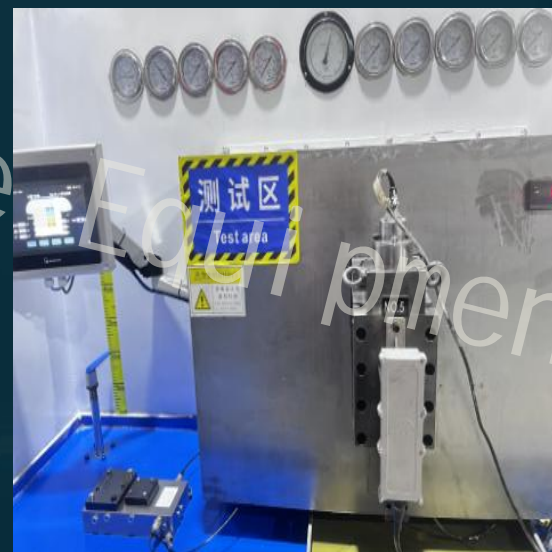
Diagram of the maintenance case



◆ FIVA disassembly. Clean, assemble and replace the parts



◆ Performance test of pilot proportional valve



◆ FIVA valve performance test

FIVA/ELFI valves

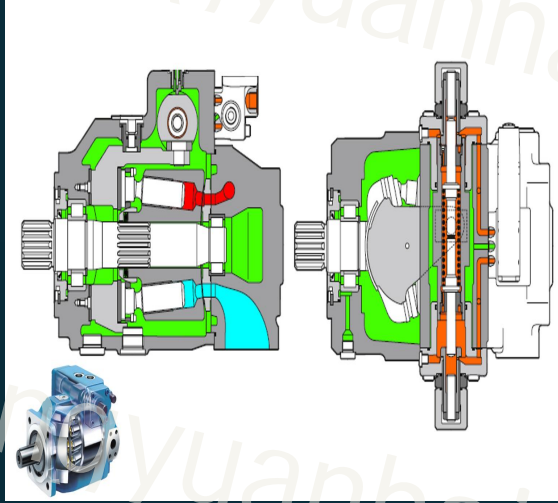
Maintenance Process:

- Disassembly, cleaning, and part replacement
- Performance testing of pilot and main valves
- Sensor signal verification and default position checks



◆ Prepare for shipment

Service characteristics



Accurate fault diagnosis



Advanced cleaning and maintenance techniques



Rigorous performance testing



Preventive maintenance recommendations

Rongyuanhai Marine Equipment Co., Limited

Advantages of Our Repair Services



● Hydraulic Pumps (HPS) :

- Cost savings

Avoid full replacement by repairing or replacing only worn or damaged components

- Performance recovery

Resolve issues like leakage, noise, pressure loss and restore to its original condition

- Extended Service Life

Reduce failure rates through timely maintenance

● Hydraulic Valves (FIVA):

- Precise Control Restoration

Ensure accurate flow regulation

- System Stability:

Maintain sealing and internal integrity

- Adaptability:

Tailored repair plans for various working conditions

Rapid Response & Quality Assurance



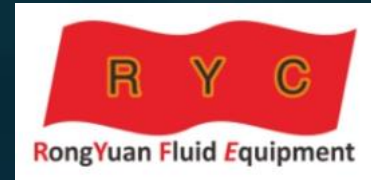
● On-Site & Remote Support:

- Quick fault identification using pressure gauges, thermometers, and visual inspections
- Immediate maintenance actions including seal replacement, valve cleaning, and leak repair

● Professional Maintenance Process:

- Pre-maintenance preparation and safety checks
- Detailed disassembly and inspection
- Thorough cleaning and part replacement
- Reassembly and functional testing
- Final quality inspection and documentation

After-Sales Service Commitment



- Skilled team with extensive field experience
- Strict adherence to quality standards and testing protocols
- Use of high-quality, rigorously tested spare parts
- Preventive maintenance and user training
- Support for major brands: Rexroth, Parker, Vickers, Eaton, and more

Contact Us

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