



ALLWEILER SLF80 R42 U12.1-W1 Triple Screw Pump - Refurbished & tested


ALLWEILER SLF80 R42 U12.1-W1 triple screw pump is a meticulously refurbished and pressure-tested positive displacement unit designed for precision fluid transfer in demanding industrial systems. Featuring a central drive screw and two intermeshing idler screws arranged in the R42 geometry, this pump ensures smooth, pulsation-free flow with outstanding volumetric efficiency. The U12.1 designation indicates a compact yet robust housing optimized for hydraulic oils, lubricants, light fuel oils, and other clean, non-abrasive fluids requiring gentle handling and consistent delivery under variable pressures.


Each SLF80 R42 U12.1-W1 pump undergoes an extensive refurbishment process that includes disassembly, ultrasonic component cleaning, OEM-standard replacement of screws, bearings, seals, and O-rings, followed by precision re-machining of housing bore tolerances. After reassembly, each unit is pressure tested to validate leak-tight performance and verified against OEM flow and pressure benchmarks. These rigorous quality controls restore operational reliability to near-new condition, ensuring minimized internal leakage and enhanced pump life for extended service intervals.


Constructed with high-strength alloy materials and corrosion-resistant internals, the SLF80 model is engineered to resist wear and handle fluctuating thermal and pressure loads. Its balanced triple-screw design provides self-priming capability and distributes forces evenly, minimizing bearing stress and reducing noise and vibration—ideal for marine propulsion systems, industrial lubrication loops, and high-duty hydraulic circuits. The compact footprint and versatile mounting options (flange, foot, or shaft drive) make the unit easy to integrate into existing equipment or retrofit into constrained layouts.

Maintenance efficiency is built into the design, with access to internal strainers and replaceable components allowing fast inspection and servicing without full disassembly. The refurbished seals and precision-fitted screws extend life-cycle performance, reducing maintenance frequency and associated costs. In summary, the ALLWEILER SLF80 R42 U12.1-W1 triple screw pump offers thoroughly validated reliability, high volumetric efficiency, and smooth, consistent operation—making it a smart, cost-effective solution for critical fluid handling applications in marine, energy,

and manufacturing environments.

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