



TECHNICAL BULLETIN

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Reference: Atwood & Morrill FREE FLOW REVERSE CURRENT VALVE®	

Subject: Mechanical Seal Replacement

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PRODUCT New packing kit to replace mechanical shaft seals used on ATWOOD & MORRILL® Free Flow Reverse Current Valves (bled steam service) on steam turbines.

PURPOSE To provide a low cost alternative to mechanical seals on check valve shafts.

BACKGROUND Bled Steam Check Valves protect the steam turbines from overspeed caused by the energy available in feedwater heaters in case of a turbine trip. OEM Turbine manufacturers have always sought a way to assure themselves that the Bled Steam Check Valves are free swinging and can close quickly. Maintenance personnel frequently over tightened the older types of packing glands to stop small steam leaks. Mechanical pump seals were specified by one turbine manufacturer as a way to provide low friction sealing for the valve shaft. However, maintenance and replacement of these seals has proven to be expensive and time consuming.

New packing materials and proper maintenance procedures offer a cost effective method to provide low friction shaft sealing.

RECOMMENDATION When mechanical seals require repair or replacement, consider replacement with a soft packing kit designed to fit your Atwood & Morrill FREE FLOW REVERSE CURRENT VALVE®. The kit includes all hardware and packing necessary to convert your valve to soft packing.

Call our Parts and Service department at 978-744-5690 for price and availability. Installation by a trained technician is available.

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