SOLUTION TYPE
Safety, production performance and reliability.

DESCRIPTION OF PROBLEM
Safety, uninterrupted production performance and reliability are priorities for U.S. refineries. To help meet these objectives, a refinery replaces its high performance couplings with new high performance couplings during big turn-arounds. This involves placing an order well in advance of a planned shutdown.

KOP-FLEX SOLUTION
A Kop-Flex coupling industry specialist introduced the refinery’s reliability engineers and plant stores supervisor to the Kop-Flex High Performance Coupling Recertification Program. A recertified coupling costs 40-50% less than purchasing a new coupling and can be turned around in about four weeks. While high performance couplings are designed for infinite life, they must be operated within their intended design limits in order to achieve optimal performance. The Kop-Flex Coupling Recertification Program restores your coupling to a like new condition with an original factory warranty.

APPLICATION
Drive Train area in oil refinery.

KEY CUSTOMER NEED(S) AND BENEFITS FROM KOP-FLEX PRODUCTS
The recertification services include: mechanical inspection, MPI inspection, glass bead blast cleaning, new flexible elements, hardware and re-balance to original specifications. This plant utilizes the service during planned shutdowns or inspection periods and has saved over $91,000 in one year.
KOP-FLEX® COUPLING RECERTIFICATION RESETS THE COUPLING WARRANTY BACK TO “LIKE NEW.”

THE RECERTIFICATION PROCESS:

- Provide estimated cost proposal based on coupling size and type, receive customer PO and coupling
- Disassemble coupling and glass bead clean the major machine components
- Perform inspection of all critical design dimensions
- Conduct magnetic particle inspection (MPI) to determine fitness for use of machined components
- Produce recertification evaluation report with recommendations, photos and final cost
- Install new flexible elements and hardware
- Re-balance the coupling to the original specifications
- Package coupling with corrosion inhibitor and VCI wrap in a custom wooden crate as standard

As one part of an effective Proactive Maintenance Strategy, the Kop-Flex Coupling Recertification Program restores your coupling to a like new condition for about half the cost of a replacement and can help ensure continued reliable operation of your critical rotating equipment.

APPLICATION CONSIDERATIONS

The proper selection and application of products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and/or its affiliates (“Regal”) with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being furnished at customer’s risk.

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