

CASE STUDY: Low Cost High Temperature Bearing Materials

INDUSTRY	Oil&Gas
PROJECT NAME	Low Cost High Temperature Bearing Materials
PRODUCT TYPE	Feasibility Study
DESCRIPTION	Perform a Feasibility Study to Identify new materials and associated design alternatives for non-lubricated ¼-turn bearings in eccentric rotary plug (ERP) valves that achieve the same or better durability as in current designs with the added ability to operate in extreme high temperature environments
RESULT	<p>Project deliverables included:</p> <ul style="list-style-type: none">a) a survey of bearing materials/coatings and associated design techniques, and their suitability to the application requiredb) conceptual design of a new or improved bearing for ERP to achieve the required objectivesc) an assessment of the potential range of application, performance, and relative cost of the concept compared to existing designs
DURATION	4 months

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