

Appendix 4

Rotary seal application questionnaire



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Individual chapters of the Kalsi Seals Handbook™ are periodically updated. To determine if a newer revision of this chapter exists, please visit <https://www.kalsi.com/seal-handbook/>.

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Kalsi Seals

Application Questionnaire

Instructions

Email the completed form to seals@kalsi.com or fax to: 281-240-0255

Name:		
Date:		
Company:		
Department:		
Position/Title:		
Address:		
City:		
State/Province:		
Postal Code:		Country:
Phone:	Fax:	Email:

Equipment Questions

Description of the equipment and functions of the rotary seals:
Equipment location/environment; i.e. arctic, tropical, indoors, outdoors, ocean floor, well bore, etc:
A description of the operational cycle; i.e. continuous rotation, intermittent rotation, etc:
Supplemental cooling arrangement, if any (circulation through shaft, coolant jacket, lubricant circulation, etc.):

Seal Questions

Temperature range in the vicinity of the rotary seals:
Seal lubricant reservoir description:
Seal lubricant pressure and pressurization method:
Seal lubricant description (Manufacturer, Lubricant name, ISO viscosity, etc):
Do the rotary seals start under pressure, or does the pressure build after rotation begins?

Environment Questions

Description of environmental/process fluid to be excluded or contained (drilling fluid, air, water, hydraulic fluid, etc.) and solids content if any:
Environmental/process fluid pressure:
Environmental/process fluid temperature range:
Flow rate of the environmental/process fluid:

Shaft Questions

Shaft diameter at the rotary seal location:

Typical and maximum shaft rotational speed:

Direction of shaft rotation:

Available torque for seal breakout:

Shaft axial motion, if any, and rate and direction of axial motion:

Shaft deflection at the rotary seal location:

Is the shaft solid or hollow? If the shaft is hollow, what is the bore diameter, and what is the flow rate of any fluid flowing through the shaft?

Shaft radial dynamic runout:

Shaft material description:

Shaft wear surface coating description:

Shaft surface finish:

Current Implementation

A description of the seal presently being used, and the problems associated with it:
Current and desired rotary seal life:
Number of units to be sealed and anticipated annual seal usage:

Sketch of application (or attached drawing)

