

Appendix 4

Rotary seal application questionnaire



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Individual appendices of the Kalsi Seals Handbook are periodically updated. To determine if a newer revision of this appendix exists, please visit www.kalsi.com/seal-handbook.htm.

NOTICE: The information in this chapter is provided under the terms and conditions of the Offer of Sale, Disclaimer, and other notices provided in the front matter of this handbook.



Kalsi Seals

Application Questionnaire

Instructions

Mail or fax the completed form to Kalsi Engineering, Inc., 745 Park Two Drive, Sugar Land, TX USA 77478 fax: 281-240-0255

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

Questions

Description of the equipment and functions of the rotary seals:
Does the seal start under pressure, or does the pressure build after rotation begins?
Lubricant pressure and pressurization method:
Process fluid pressure:
Process fluid temperature range:
A description of the operational cycle; i.e continuous rotation, intermittent rotation, etc:

Questions, continued

Supplemental cooling arrangement, if any (circulation through shaft, coolant jacket, lubricant circulation, etc.):
Flow rate of the process fluid:
Shaft diameter at the seal location:
Typical and maximum shaft rotary speed:
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?
Available torque for seal breakout:
Shaft deflection at the rotary seal location:
Shaft radial dynamic runout:
Direction of shaft rotation:
Shaft axial motion, if any, and rate and direction of axial motion:
Shaft material description:
Shaft surface finish:
Shaft wear surface coating description:
Rotary seal lubricant description (Manufacturer, Lubricant name, ISO viscosity, etc):
Lubricant reservoir description:
Description of environmental fluid to be excluded or contained (Drilling fluid, air, water, hydraulic fluid, etc.):

Questions, continued

Equipment location/environment; i.e arctic, tropical, indoors, outdoors, ocean floor, well bore, etc:
Equipment temperature range in the vicinity of the rotary seals:
A description of the rotary seal presently being used, and the problems associated with it:
Current rotary seal life:
Desired rotary seal life:
Shaft to housing radial extrusion gap clearance in the vicinity of the rotary seal:
Number of units to be sealed and anticipated annual seal usage:
Sketch of application (or attach drawings):