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|--|-------------------------------|---------------------------|--|--|--------------|--------------------------|-------------------------------|------------------------------|-----------------|-------------------------|-----|----------------------|------|------|-------------------------|-----|------|-------------------------|-----|--------|-------------------|-------------|-----------|------------------------|-------|-------|--------------------------------|---|---------------------------|---------------------------|------------------|--------------|
| API 610 10TH EDITION (ISO 13709) CENTRIFUGAL PUMP PROCESS DATA SHEET (SI UNITS) | | | MR No. SPPG-C-S-1 | Item No. 850-3215 | Rev. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inquiry No. SPPG-C-S-1 By C.F.W. | | | Date: 31-Jun-08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> APPLICABLE TO: <input type="checkbox"/> PROPOSAL <input type="checkbox"/> PURCHASED <input type="checkbox"/> AS-BUILT <input type="checkbox"/> FIRM: Sunoco Energy <input type="checkbox"/> SITE: Firebag Stage 3, Fort McMurray, Alberta | | | UNIT: Steam Generation SERVICE: LP SFW Pump | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> NOTES: INFORMATION RELATED TO BE COMPLETED BY PURCHASER: <input type="checkbox"/> BY PURCHASER <input type="checkbox"/> BY MANUFACTURER <input type="checkbox"/> BY MANUFACTURER OR PURCHASER <input type="checkbox"/> DATA SHEET(S) (SI UNITS) | | | Pump Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> ITEM NO./LSI - DATA SHEET NO. 850-3215 <input type="checkbox"/> LS/DOC 850-3215 <input type="checkbox"/> LS/CDM 850-3215 <input type="checkbox"/> LS/DRIVE 850-3215 | | | ATTACHED: <input type="checkbox"/> Manufacturer <input type="checkbox"/> Model <input type="checkbox"/> Size <input type="checkbox"/> No. of Stages <input type="checkbox"/> Serial No./S. | Manufacturer: Fossenmaier, Dinkels, Italy Model: UZDL Size: 14 UZDL, 25 No. of Stages: 3 Serial No./S.: 1048600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> APPLICABLE STANDARD(S): Firebag Project Standard FB-G-0110 <input type="checkbox"/> OPERATING CONDITIONS (S.I. UNITS): 1000000 L/H | | | <input checked="" type="checkbox"/> LIQUID (S.I. UNITS) Boiler Feed Water <input type="checkbox"/> HAZARDOUS <input type="checkbox"/> FLAMMABLE <table border="1"> <tr> <td>ITEM</td> <td>INCOMING</td> <td>OUT</td> </tr> <tr> <td>ITEM</td> <td>100</td> <td>100</td> </tr> <tr> <td>VAPOR PRESSURE (MPa)</td> <td>2.00</td> <td>0.00</td> </tr> <tr> <td>RELATIVE DENSITY (S.I.)</td> <td>1.0</td> <td>1.00</td> </tr> <tr> <td>VISCOOSITY (S.I. UNITS)</td> <td>1.0</td> <td>0.0001</td> </tr> <tr> <td>SPECIFIC HEAT, CP</td> <td>4.2 J/KG °C</td> <td>(J/KG °C)</td> </tr> <tr> <td>CHLORIDE CONCENTRATION</td> <td>30000</td> <td>(ppm)</td> </tr> <tr> <td>HLS CONCENTRATION (S.I. UNITS)</td> <td>0</td> <td>(PPHM), HSST (S.I. UNITS)</td> </tr> <tr> <td>CORROSIVE / EROSION AGENT</td> <td>TDS < 10000 PPMM</td> <td>(S.I. UNITS)</td> </tr> </table> | | | ITEM | INCOMING | OUT | ITEM | 100 | 100 | VAPOR PRESSURE (MPa) | 2.00 | 0.00 | RELATIVE DENSITY (S.I.) | 1.0 | 1.00 | VISCOOSITY (S.I. UNITS) | 1.0 | 0.0001 | SPECIFIC HEAT, CP | 4.2 J/KG °C | (J/KG °C) | CHLORIDE CONCENTRATION | 30000 | (ppm) | HLS CONCENTRATION (S.I. UNITS) | 0 | (PPHM), HSST (S.I. UNITS) | CORROSIVE / EROSION AGENT | TDS < 10000 PPMM | (S.I. UNITS) |
| ITEM | INCOMING | OUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM | 100 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VAPOR PRESSURE (MPa) | 2.00 | 0.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RELATIVE DENSITY (S.I.) | 1.0 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VISCOOSITY (S.I. UNITS) | 1.0 | 0.0001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPECIFIC HEAT, CP | 4.2 J/KG °C | (J/KG °C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHLORIDE CONCENTRATION | 30000 | (ppm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HLS CONCENTRATION (S.I. UNITS) | 0 | (PPHM), HSST (S.I. UNITS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CORROSIVE / EROSION AGENT | TDS < 10000 PPMM | (S.I. UNITS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> OTHER: <input type="checkbox"/> LOCATION (S.I. UNITS): <input type="checkbox"/> INDOOR <input checked="" type="checkbox"/> HEATED <input type="checkbox"/> OUTDOOR <input type="checkbox"/> UNHEATED <input type="checkbox"/> ELECTRICAL AREA CLASSIFICATION (S.I. UNITS): UNCLASSIFIED <input type="checkbox"/> OIL <input type="checkbox"/> GAS <input type="checkbox"/> Zone | | | MATERIALS: <input type="checkbox"/> Piping: H CLASS (S.I. UNITS): S-E <input type="checkbox"/> MTR DESIGN METAL TEMP (S.I. UNITS): 250 °C <input type="checkbox"/> RECOMMENDED HARNESS MATERIALS PERIOD (S.I. UNITS): <table border="1"> <tr> <td>MATERIAL: ADVANCE</td> <td>IMPERMEABLE: ABST/ABST</td> </tr> <tr> <td>CAUSE: IMPELLER WEAR: TORQUE</td> <td>A473-100</td> </tr> <tr> <td>SHIRT: ABRE-A-00</td> <td></td> </tr> <tr> <td>DIFFUSERS:</td> <td></td> </tr> </table> | | | MATERIAL: ADVANCE | IMPERMEABLE: ABST/ABST | CAUSE: IMPELLER WEAR: TORQUE | A473-100 | SHIRT: ABRE-A-00 | | DIFFUSERS: | | | | | | | | | | | | | | | | | | | | |
| MATERIAL: ADVANCE | IMPERMEABLE: ABST/ABST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAUSE: IMPELLER WEAR: TORQUE | A473-100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHIRT: ABRE-A-00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DIFFUSERS: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> SITE DATA (S.I. UNITS): <input type="checkbox"/> ALTITUDE: 580.4 (ft) BAROMETER: 1014 (KPA) <input type="checkbox"/> RANGE OF AMBIENT TEMP, MIN / MAX: -5 / +40 (°C) <input type="checkbox"/> RELATIVE HUMIDITY, MIN / MAX: 10 / 90 (%) | | | PERFORMANCE: (S.I. UNITS) PROPOSAL CURVE NO.: 850020254-0514F <input type="checkbox"/> 1000 <input type="checkbox"/> RPM 15 <input type="checkbox"/> IMPELLER: DISA RATED 500 MAX 650.0 RPM 500.0 RPM 15 <input type="checkbox"/> IMPELLER TYPE: CLOSED <input type="checkbox"/> RATED POWER: 1607.4 (W) EFFICIENCY: 70.5 (%) 15 <input type="checkbox"/> MINIMUM CONTINUOUS FLOW: 300 <input type="checkbox"/> TURBINE 300 <input type="checkbox"/> TURBINE <input type="checkbox"/> PREFERRED OPER. REGION: 400 TO 750 <input type="checkbox"/> TURBINE <input type="checkbox"/> ALLOWABLE OPER. REGION: 300 TO 750 <input type="checkbox"/> TURBINE <input type="checkbox"/> MAX HEAD (S.I.) RATED IMPELLER: 340 <input type="checkbox"/> MM <input type="checkbox"/> MAX POWER (S.I.) RATED IMPELLER: 745 <input type="checkbox"/> MM <input type="checkbox"/> MAX AMT RATED FLOW: 4.0 <input type="checkbox"/> MM (S.I. UNITS) 15 <input type="checkbox"/> MAX REACTION SPEED: 1004 <input type="checkbox"/> RPM (S.I. UNITS) <input type="checkbox"/> MAX SOUND PRESS. LEVEL: 85 <input type="checkbox"/> dB(A) (S.I. UNITS) <input type="checkbox"/> EST. MAX. SOUND PRESS. LEVEL: 90.3 <input type="checkbox"/> dB(A) (S.I. UNITS) 15 <input type="checkbox"/> EST. MAX. SOUND POWER LEVEL: 100.0 <input type="checkbox"/> dB(A) (S.I. UNITS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> OTHER: <input type="checkbox"/> Motor No.: 0500-A-0110 <input type="checkbox"/> Driver Type: <input type="checkbox"/> INDUCTION MOTOR <input type="checkbox"/> STEAM TURBINE <input type="checkbox"/> GEAR | | | DRIVEN: <input type="checkbox"/> ELECTRICITY <input type="checkbox"/> DRIVERS: 4160 VOLTAGE: 3 PHASE: 60 Hz <input type="checkbox"/> HEATER: 120 VOLTAGE: 1 PHASE: 60 Hz SYSTEM VOLTAGE: OFF <input type="checkbox"/> 60% <input type="checkbox"/> OTHER: (S.I. UNITS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> INSULATION: Class F <input type="checkbox"/> TEFLON: None <input type="checkbox"/> Class B <input type="checkbox"/> FULL LOAD WATTS: 4000 <input type="checkbox"/> HORSEPOWER: 3000 (S.I.) <input type="checkbox"/> LOCKED ROTOR WATTS: 4500 <input type="checkbox"/> HORSEPOWER: 3500 (S.I.) <input type="checkbox"/> STARTING METHOD: Across the Line <input type="checkbox"/> LAMP: See Note 2 | | | UTILITY CONDITIONS: SELECTIVITY: VOLTAGE PHASE Hz/RT DRIVERS: 4160 3 60 HEATER: 120 1 60 SYSTEM VOLTAGE: OFF <input type="checkbox"/> 60% <input type="checkbox"/> OTHER: (S.I. UNITS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> MECHANICAL (TYPE, NUMBER): <input type="checkbox"/> RADIAL: split - sleeve <input type="checkbox"/> THRUST: split - sleeve <input type="checkbox"/> VERTICAL THRUST CAPACITY: <input type="checkbox"/> UP: 0 (N) DOWN: 0 (N) <input type="checkbox"/> See Motor Data Sheet DS-005-A-0400215-A. | | | COOLING TOWER: (S.I. UNITS) SOURCE: Plant Cooling Glycol System 15 SUPPLY TEMP: 45 °C MAX. RETURN TEMP: 45 °C 15 NORM. PRESS.: 2400 APPS. DESIGN PRESS.: 2400 @ 60°C APPS. MAX. INT'L. PRESS.: 25 APPS. MAX. ALLOW. O/F: 25 APPS. 15 CHLORIDE CONCENTRATION: 0 PPHM 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 31-Jun-08 Re-issued For Purchase 14 1-Jun-07 Issued For Purchase Rev. DATE REVISION: | | | DATA SHEET FOR: 850-3215 Project No.: 03-000051A 15 DOCUMENT NO.: DS95-A-03215-1 REV. DS95-A-03215-1 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUNOCOR <small>Energy</small> <small>Industrial</small> <small>Refining</small> <small>Polymer</small> <small>Chemical</small> <small>Project</small> <small>Firebag</small> | | | FOOT: Sunoco Energy LOCATION: Firebag Stage 3, Fort McMurray, Alberta SERVICE: LP SFW Pump ITEM: 850-3215 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Johann Friedrich GÜLICH

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Chemical Process Engineering Volume 1 Rahmat Sotudeh-Gharebagh,A. Kayode Coker,2022-05-03 Written by two of the most prolific and respected chemical engineers in the world this groundbreaking two volume set is the new standard in the industry offering engineers and students alike the most up to date comprehensive and state of the art coverage of processes and best practices in the field today This first new volume in a two volume set explores and describes integrating new tools for engineering education and practice for better utilization of the existing knowledge on process design Useful not only for students professors scientists and practitioners especially process chemical mechanical and metallurgical engineers it is also a valuable reference for other engineers consultants technicians and scientists concerned about various aspects of industrial design The text can be considered as a complementary text to process design for senior and graduate students as well as a hands on reference work or refresher for engineers at entry level The contents of the book can also be taught in intensive workshops in the oil gas petrochemical biochemical and process industries The book provides a detailed description and hands on experience on process design in chemical engineering and it is an integrated text that focuses on practical design with new tools such as Excel spreadsheets and UniSim simulation software Written by two industry and university s most trustworthy and well known authors this book is the new standard in chemical biochemical pharmaceutical petrochemical and petroleum refining Covering design analysis simulation integration and perhaps most importantly the practical application of Microsoft Excel UniSim software this is the most comprehensive and up to date coverage of all of the latest developments in the industry It is a must have for any engineer or student s library *Petroleum Refining Design and Applications Handbook, Volume 2* A. Kayode Coker,2021-04-13 A must read for any practicing engineer or student in this area There is a renaissance that is occurring in chemical and process engineering and it is crucial for today s scientists engineers technicians and operators to stay current This book offers the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining presenting the state of the art to the engineer scientist or student Useful as a textbook this is also an excellent handy go to reference for the veteran engineer a volume no chemical or process engineering library should be without *Kreiselpumpen* Johann Friedrich GÜlich,2014-10-17 Dieses Standardwerk erscheint in vierter Auflage daf r wurden aktuelle Forschungsergebnisse einbezogen welche f r die Praxis Bedeutung haben Auswahl und Darstellung des Stoffes orientieren sich an den Bed rfnissen der Praxis der Pumpenbauer Anlagenplaner und Pumpenbetreiber Richtig Anwendung der Kenntnisse erfordert ein gr ndliches Verst ndnis der physikalischen Zusammenh nge deren Darstellung wird daher entsprechend viel Raum gewidmet ber 160 Tafeln und Tabellen f r Berechnung und Problemdiagnose erleichtern dem Leser die Anwendung Der Autor ist durch seine fachliche Kompetenz aus langer Industriet tigkeit ausgewiesen und z hlt zu den besten Fachleuten im internationalen Wettbewerb Besonders hingewiesen sei auf ein Verfahren f r eine automatisierte Berechnung von Laufr dern basierend auf einer analytischen Beschreibung der

Meridianschnitt und Schaufelkoordinaten Zudem wurden vertiefte Darstellungen eingefügt für Strömungsinstabilitäten in doppelflutigen Laufrädern und Doppelspiralen für Axial und Radialräder hydraulische Schwingungsanregung Kavitationsschäden in Leitradern und Spiralgehäusen sowie für hochviskose Flüssigkeiten Ergebnisse wurden in fast allen Kapiteln vorgenommen Das Werk fasst die Forschungsergebnisse zu hydraulischen Problemen des Kreiselpumpenbaus zusammen und beschreibt den Stand der Technik umfassend *Centrifugal Pumps* Johann Friedrich Göllich, 2014-10-24 This book gives an unparalleled up to date in depth treatment of all kinds of flow phenomena encountered in centrifugal pumps including the complex interactions of fluid flow with vibrations and wear of materials The scope includes all aspects of hydraulic design 3D flow phenomena and partload operation cavitation numerical flow calculations hydraulic forces pressure pulsations noise pump vibrations notably bearing housing vibration diagnostics and remedies pipe vibrations pump characteristics and pump operation design of intake structures the effects of highly viscous flows pumping of gas liquid mixtures hydraulic transport of solids fatigue damage to impellers or diffusers material selection under the aspects of fatigue corrosion erosion corrosion or hydro abrasive wear pump selection and hydraulic quality criteria As a novelty the 3rd ed brings a fully analytical design method for radial impellers which eliminates the arbitrary choices inherent to former design procedures The discussions of vibrations noise unsteady flow phenomena stability hydraulic excitation forces and cavitation have been significantly enhanced To ease the use of the information the methods and procedures for the various calculations and failure diagnostics discussed in the text are gathered in about 150 pages of tables which may be considered as almost unique in the open literature The text focuses on practical application in the industry and is free of mathematical or theoretical ballast In order to find viable solutions in practice the physical mechanisms involved should be thoroughly understood The book is focused on fostering this understanding which will benefit the pump engineer in industry as well as academia and students

Publications, Programs & Services American Petroleum Institute, 2005

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