

API 610 10TH EDITION (ISO 13709) CENTRIFUGAL PUMP PROCESS DATA SHEET (SI UNITS)				MR No.	MR95-G-3-1	Item No.	950-3215	Rev.																
Inquiry No.				MR95-G-3-1																				
By:				C.Yu		Date:	31-Jan-08																	
1. APPLICABLE TO: <input checked="" type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input checked="" type="radio"/> AS-BUILT				UNIT: Steam Generation																				
2. FOR: Suncor Energy				SERVICE: LP BFW Pump																				
3. SITE: Firebag Stage 5, Fort McMurray, Alberta																								
4. NOTES: INFORMATION BELOW TO BE COMPLETED: <input checked="" type="radio"/> BY PURCHASER <input type="radio"/> BY MANUFACTURER <input type="radio"/> BY MANUFACTURER OR PURCHASER																								
5. DATA SHEETS (S.I.U.)				Pump Information																				
6. ITEM NO.(S) / DATA SHEET NO.(S)				Manufacturer		Floerserve, Desio, Italy																		
7. PUMP: 950-3215				<input checked="" type="radio"/> Model		U20L																		
8. MOTOR: 950A8-3215				<input checked="" type="radio"/> Size		6 U20L 25																		
9. GEAR				<input type="radio"/> No. of Stages		2																		
10. TURBINE				<input type="radio"/> Serial No.'s		J040993																		
11. APPLICABLE STANDARD(S): Firebag Project standard FB-G-0018									18															
12. <input checked="" type="radio"/> OPERATING CONDITIONS (S.I.U.) (S.E.S.) (S.E.T.)				<input checked="" type="radio"/> LIQUID (S.I.U.)																				
13. CAPACITY, NORMAL: 543 (m ³ /h) RATED: 624 (m ³ /h)				LIQUID TYPE OR NAME: Boiler Feed Water																				
14. OTHER:				<input type="radio"/> HAZARDOUS <input type="radio"/> FLAMMABLE (S.I.U.)																				
15. SUCTION PRESS. MAX. / RATED: 143.4 / 20 (kPag)				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>MIN</th> <th>NORMAL</th> <th>MAX</th> </tr> <tr> <td>10</td> <td>25</td> <td>50</td> </tr> <tr> <td>1.2</td> <td>27.4</td> <td>54.3</td> </tr> <tr> <td>1</td> <td>0.87</td> <td>0.86</td> </tr> <tr> <td>1.3</td> <td>0.889</td> <td>0.889</td> </tr> </table>					MIN	NORMAL	MAX	10	25	50	1.2	27.4	54.3	1	0.87	0.86	1.3	0.889	0.889	
MIN	NORMAL	MAX																						
10	25	50																						
1.2	27.4	54.3																						
1	0.87	0.86																						
1.3	0.889	0.889																						
16. DISCHARGE PRESSURE: 3.743 (kPag)				PUMPING TEMP. (°C): 4.3 @ 65°C (S.I.U.)																				
17. DIFFERENTIAL PRESSURE: 3.743 (kPag)				SAPOR PRESS. kPa (abs.): 3000 (psia)																				
18. DFT. HEAD: 288.3 (m) NPSHA: 5.96 (m)				RELATIVE DENSITY (SG):																				
19. PROCESS VARIATIONS (S.I.U.)				VISCOSITY (cP):																				
20. STARTING CONDITIONS (S.I.U.)				SPECIFIC HEAT, Cp: 4.2 (J/kg °C)																				
21. SERVICE: <input checked="" type="radio"/> CONT. <input type="radio"/> INTERMITTENT (STARTS / DAY):				<input checked="" type="radio"/> CHLORIDE CONCENTRATION: 3000 (ppm)																				
22. <input checked="" type="radio"/> PARALLEL OPERATION RECORD (S.I.U.) HYD. POWER: 408 (kW)				<input type="radio"/> H ₂ S CONCENTRATION (S.I.U.):																				
23. <input checked="" type="radio"/> SITE DATA (S.I.U.)				CORROSIVE / ERODIVE AGENT: TDS < 8000 ppm (S.I.U.)																				
24. LOCATION (S.I.U.)				MATERIALS																				
25. <input checked="" type="radio"/> INDOOR <input checked="" type="radio"/> HEATED <input type="radio"/> OUTDOOR <input type="radio"/> UNHEATED				<input checked="" type="radio"/> INNER CLASS (S.I.U.): 0-1																				
26. <input checked="" type="radio"/> ELECTRICAL AREA CLASSIFICATION (S.I.U.) (S.I.U.) UNCLASSIFIED				<input checked="" type="radio"/> MIN. DESIGN METAL TEMP. (S.I.U.): -25 (°C)																				
27. <input type="radio"/> CL. <input type="radio"/> OR. <input type="radio"/> Zone				<input checked="" type="radio"/> REDUCED HARDNESS MATERIALS REQD. (S.I.U.):																				
28. <input type="radio"/> WINTERIZATION REQD. <input type="radio"/> TROPICALIZATION REQD.				<input checked="" type="radio"/> BARNEL / CASE: A210WCB IMPELLER: A467CASM																				
29. SITE DATA (S.I.U.)				<input checked="" type="radio"/> CASE / IMPELLER WEAR RING: A467CASM																				
30. ALTITUDE: 583.4 (m) BAROMETER: 94.4 kPa (abs.)				<input checked="" type="radio"/> SHAFT: A276-415					18															
31. RANGE OF AMBIENT TEMP. MIN. / MAX. +5 / +40 (°C)				<input checked="" type="radio"/> DIFFUSERS:																				
32. RELATIVE HUMIDITY: MIN. / MAX. (m)																								
33. USUAL CONDITIONS (S.I.U.) <input type="radio"/> DUST <input type="radio"/> FLAME																								
34. <input type="radio"/> OTHER:																								
35. Refer to Site Conditions Data Sheet DS95-A-1-1 for more information.																								
36. <input checked="" type="radio"/> DRIVER TYPE				PERFORMANCE: @ 1.88 SG																				
37. <input checked="" type="radio"/> INDUCTION MOTOR <input type="radio"/> STEAM TURBINE <input type="radio"/> GEAR				PROPOSAL CURVE NO. 602DL25-651-F					18															
38. <input type="radio"/> OTHER:				<input checked="" type="radio"/> IMPELLER DIA. RATED: 590 MAX. 650.8 MIN. 508.3 (mm)					18															
39. <input checked="" type="radio"/> MOTOR DRIVER (S.I.U.) (S.I.U.)				<input checked="" type="radio"/> IMPELLER TYPE: CLOSED																				
40. MANUFACTURER: TECO - Westinghouse				<input checked="" type="radio"/> RATED POWER: 607.4 (kW) EFFICIENCY: 72.3 (%)					18															
41. (1000 HP) 745.7 (kW) 1350 (RPM)				<input checked="" type="radio"/> MINIMUM CONTINUOUS FLOW: 300 (m ³ /h)																				
42. FRAME: 4855 ENCLOSEURE: WP				<input checked="" type="radio"/> THRESHOLD: 438 TO 750 (m ³ /h)																				
43. HORIZONTAL <input checked="" type="radio"/> VERTICAL <input checked="" type="radio"/> SERVICE FACTOR: 1.15				<input checked="" type="radio"/> PREFERRED OPER. REGION: 300 TO 750 (m ³ /h)																				
44. VOLTAGE / PH. / Hz: 4000 / 3 / 60				<input checked="" type="radio"/> ALLOWABLE OPER. REGION: 300 TO 750 (m ³ /h)																				
45. TYPE: Squelch Cage Induction				<input checked="" type="radio"/> MAX HEAD @ RATED IMPELLER: 142 (m)					18															
46. MINIMUM STARTING VOLTAGE (S.I.U.)				<input checked="" type="radio"/> MAX POWER @ RATED IMPELLER: 745 (kW)					18															
47. INSULATION: Class F. TEMP. RISE: Class B				<input checked="" type="radio"/> NPSHA AT RATED FLOW: 4.3 (m) (S.I.U.)					18															
48. FULL LOAD AMPS				<input checked="" type="radio"/> MAX. SUCTION SPECIFIC SPEED: 8004 (S.I.U.)																				
49. LOCKED ROTOR AMPS				<input checked="" type="radio"/> MAX. SOUND PRESS. LEVEL REQD.: 85 (dBa) (S.I.U.)																				
50. STARTING METHOD: Across the line				<input checked="" type="radio"/> EST. MAX. SOUND PRESS. LEVEL: 92.3 (dBa) (S.I.U.)					18															
51. LUBE: See Note 2				<input type="radio"/> EST. MAX. SOUND POWER LEVEL:																				
52. BEARINGS (TYPE / NUMBER):				UTILITY CONDITIONS																				
53. RADIAL: split - sleeve				ELECTRICITY																				
54. THRUST: split - sleeve				DRIVERS																				
55. VERTICAL THRUST CAPACITY				HEATER																				
56. UP (m) DOWN (m)				SYSTEM VOLTAGE DP: <input type="radio"/> 90% <input type="radio"/> OTHER (S.I.U.)																				
57. See Motor Data Sheet DS95-F-00015-L				STEAM: N/A																				
				DRAWING: MAX. PRESS. MAX. TEMP. MIN. PRESS. MIN. TEMP.																				
				HEATER:																				
				COOLING TQ: (S.I.U.) SOURCE: Plant Cooling Glycol System					18															
				SUPPLY TEMP: 45 (°C) MAX. RETURN TEMP: (°C)					18															
				NORMAL PRESS: 2500 (kPag) DESIGN PRESS: 3400 @ 80°C (kPag)					18															
				SAL. NET. PRESS: (kPag) MAX. ALLOW. O.P.: 75 (kPag)					18															
				CHLORIDE CONCENTRATION: (mg/l)																				
18	31-Jan-08	Re-issued For Purchase	CY	NS	CY	TY	SD	DATA SHEET FOR 950-3215																
1A	1-Jun-07	Issued For Purchase	GO	ES	CY	TY	SD																	
Rev.	DATE	REVISION	BY	CHK	ENQ.	APP.	OTHER																	
SUNCOR ENERGY		FOR: Suncor Energy Firebag Stage 5, Fort McMurray, Alberta		Project No. 03-00061A				18																
Firebag Project		LOCATION: SERVICE: EQUIPMENT NO.		DOCUMENT NO. DS95-A-03215-1				REV. 1B																

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**Rahmat Sotudeh-Gharebagh,A.
Kayode Coker**



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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 da f 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 Richtige 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 eingeführt für Strömungsinstabilitäten in doppelflutigen Laufrädern und Doppelspiralen für Axial und Radialkräfte hydraulische Schwingungsanregung Kavitationsschäden in Leitern und Spiralgehäusen sowie für hochviskose Flüssigkeiten Ergänzungen 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 Gülich, 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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Table of Contents Api 610 10th Edition Iso 13709

1. Understanding the eBook Api 610 10th Edition Iso 13709
 - The Rise of Digital Reading Api 610 10th Edition Iso 13709
 - Advantages of eBooks Over Traditional Books
2. Identifying Api 610 10th Edition Iso 13709
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Api 610 10th Edition Iso 13709
 - User-Friendly Interface
4. Exploring eBook Recommendations from Api 610 10th Edition Iso 13709
 - Personalized Recommendations
 - Api 610 10th Edition Iso 13709 User Reviews and Ratings
 - Api 610 10th Edition Iso 13709 and Bestseller Lists
5. Accessing Api 610 10th Edition Iso 13709 Free and Paid eBooks
 - Api 610 10th Edition Iso 13709 Public Domain eBooks
 - Api 610 10th Edition Iso 13709 eBook Subscription Services

- Api 610 10th Edition Iso 13709 Budget-Friendly Options
- 6. Navigating Api 610 10th Edition Iso 13709 eBook Formats
 - ePub, PDF, MOBI, and More
 - Api 610 10th Edition Iso 13709 Compatibility with Devices
 - Api 610 10th Edition Iso 13709 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Api 610 10th Edition Iso 13709
 - Highlighting and Note-Taking Api 610 10th Edition Iso 13709
 - Interactive Elements Api 610 10th Edition Iso 13709
- 8. Staying Engaged with Api 610 10th Edition Iso 13709
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Api 610 10th Edition Iso 13709
- 9. Balancing eBooks and Physical Books Api 610 10th Edition Iso 13709
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Api 610 10th Edition Iso 13709
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Api 610 10th Edition Iso 13709
 - Setting Reading Goals Api 610 10th Edition Iso 13709
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Api 610 10th Edition Iso 13709
 - Fact-Checking eBook Content of Api 610 10th Edition Iso 13709
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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