

SPECIAL PURPOSE GEAR UNITS API 613 FIFTH EDITION DATA SHEET UNIT

Job No. _____ Rem No. _____
P.O. No. _____ Date _____
Requisition No. _____
Inquiry No. _____
Revision _____ Date _____ By _____
☐ US Standards (1.7) ☐ ISO Standards (1.7)
Manufacturer _____
Model No. _____
Serial No. _____
Driver Type _____
Driven Equipment _____

1 Applicable To: ☐ Proposal ☐ Purchase ☐ As Built
2 For _____
3 Site _____
4 Unit _____
5 Service _____
6 No. Required _____

NOTE: Numbers Within () Refer To Applicable API Standard 613 Paragraphs

☐ Information To Be Completed By Purchaser

☐ Information To Be Completed By Manufacturer

10 ☐ UNITS OF MEASUREMENT (1.8)

11 ☐ US Customary Units

12 ☐ SI Units

13 ☐ RATING REQUIREMENTS

14 Driven Equip. kw (2.1.4): Norm. _____ Max. _____

15 Driver kw: Rated _____ Max. _____

16 Normal Transmitted Power (2.2.2) _____ kw

17 Gear Unit Rated Power (2.2.1) _____ kw

18 Torque @ Max Cont Speed _____ kg m

19 Max Torque (2.2.1) _____ kg m @ _____ RPM

20 ☐ Reducer ☐ Increase

21 Rated Speed, RPM (2.1.5):

22 Input _____ ☐ Specified ☐ Nominal

23 Output _____ ☐ Specified ☐ Nominal

24 Allow Var In Gear Ratio (2.1.5) (+/-) _____ %

25 Max Continuous Speed (1.5) _____ RPM

26 Trip Speed (1.5)(2.1.7) _____ RPM

27 Gear Service Factor (2.2.3.1) _____ (Min)

28 Hardness (2.3.3.2) Pinion _____ Gear _____

29 Shaft Assembly Designation (2.1.10) _____

30 HS Shaft Rot Fc'g Cfg (2.1.20.2) ☐ CW ☐ CCW

31 LS Shaft Rot Fc'g Cfg (2.1.20.2) ☐ CW ☐ CCW

32 External Loads (2.1.16) _____

33 Other Operating Conditions (2.2.2) (2.6.1.3) _____

34 _____

35 ☐ INSTALLATION DATA (2.1.14)

36 ☐ Indoor ☐ Heated ☐ Under Roof

37 ☐ Outdoor ☐ Unheated ☐ Partial Sides

38 ☐ Grade ☐ Mezzanine ☐ _____

39 ☐ Winterization Req'd ☐ Tropicalization Required

40 Elec. Area (2.1.10) Class _____ Grp _____ Div _____

41 Elec'l Area (2.1.10) Class _____ Zone _____ Temp _____

42 Max Allow SPL (2.1.6) _____ dBA @ _____ m

43 Elevation _____ m Barometer _____ kPa abs

44 Range Of Ambient Temperatures:

45 _____ Dry Bulb _____ Wet Bulb

46 Normal _____ °C _____ °C

47 Maximum _____ °C _____ °C

48 Minimum _____ °C _____ °C

49 Unusual Conditions ☐ Dust ☐ Fumes

50 ☐ _____

☐ BASIC GEAR DATA

☐ Single Stage

☐ Single Helical

☐ Double Stage

☐ Double Helical

☐ Epicyclic

☐ _____

Mechanical Rating (1.5.16) kw _____ @ _____ RPM

Gear Service Factor (2.2.3.1) _____ (Actual)

Full Load Gear Unit Power Loss _____ kw

Gear Unit Mechanical Efficiency _____ %

Rating Speed, RPM Pinion _____ Gear _____

Hardness used for

Rating, (HB or Rc) Pinion _____ Gear _____

Tooth Fitting Index, "K" mpa (2.2.4.1)(2.2.4.2):

Allowable _____ Actual _____

Material Index Number, mpa (Fig 3, Table 4) _____

Bending stress number, "St" mpa (2.2.5.1)(2.2.5.2)

Pinion: Allowable _____ Actual _____

Gear: Allowable _____ Actual _____

Pitch Line Velocity _____ m/sec

Anticipated SPL (2.1.6) _____ dBA @ _____ m

WR² Referred To LS Shaft _____ kg mm²

Breakaway Torque _____ kg m

Pinion teeth Hardness Range _____

Pinion teeth hardening method:

☐ HS Shaft Separate Hardness Range _____

Gear Teeth (rim) Hardness Range _____

Gear teeth hardening method:

Gear Hub:

☐ Forged Cylinder ☐ Forged & Coped ☐ Fabricated

Gear To Shaft fit method (2.5.3.2)

☐ Integral ☐ Keyed Interference ☐ Keyless Interference

Rim Attachment (2.5.3.2) _____

LS Shaft Hardness Range _____

Journal static Weight loads (2.6.6.3)

Pinion _____ kg Gear _____ kg

Total Gear Unit Assembled Weight _____ kg

NOTES: _____

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Robert R. Redfield



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Process Machinery Handbook Robert X. Perez, 2025-07-22 Process Machinery Handbook For Field Personnel Decision Makers and Students equips newcomers and seasoned professionals with essential insights into the diverse world of process machinery empowering them to understand unique performance characteristics common failure modes and effective strategies for enhancing reliability in their operations Any professional working at a production site for any length of time knows that process machinery comes in a wide range of designs and sizes but not all process machines are considered equal Some machines are more critical to the process than others some are small some are very large some spin fast and some turn relatively slowly The great diversity in their construction and application can be daunting to those new to the industry and sometimes even challenge machinery veterans There are many common concepts that apply to all equipment types but each equipment category has its own unique application and performance characteristics including cavitation in liquid handling pumps surging in centrifugal gas compressors rotor instability in high speed centrifugal compressors and the effect of the compression ratio on a reciprocating compressor s the discharge temperature It is also essential for users to understand how and why different types of machinery fail keeping in mind that the common failure modes differ greatly between rotating machinery types We know that by addressing the common types of failure modes associated with each machine type we can achieve significant improvements in their reliability The first step in organizing an effective machinery reliability program is committing to performing failure analyses and gathering failure statistics These activities will help users learn how and why their machines are failing The next step is to continuously modify machines processes and methods to avoid common failures Process Machinery Handbook For Field Personnel Decision Makers and Students gives students and professionals alike the tools they need to understand the fundamentals of working with rotating machinery Vibration Damping, Control, and Design Clarence W. de Silva, 2007-04-05 Reducing and controlling the level of vibration in a mechanical system leads to an improved work environment and product quality reduced noise more economical operation and longer equipment life Adequate design is essential for reducing vibrations while damping and control methods help further reduce and manipulate vibrations when design strat

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Process Machinery Fred K. Geitner, Ronald G. Eierman, 2021-11-22 The authors describe a risk based approach to commissioning and start up of process machinery Techniques are provided to quantify the safety risks and risks associated with machinery failure and estimated impact on start up schedules Examples of defining and quantifying the risks based on the extent of the commissioning effort as a function of criticality of the machinery are offered Also included are numerous directly applicable checklists

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Proceedings Vibration Institute (Clarendon Hills, Ill.). Meeting, 2004

Publications, Programs & Services American Petroleum Institute, 2005

A Working Guide to Process Equipment, Fifth Edition Norman P. Lieberman, Elizabeth T. Lieberman, 2022-06-01 The latest methods for troubleshooting and maintaining process equipment

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Table of Contents Api 613 Fifth Edition

1. Understanding the eBook Api 613 Fifth Edition
 - The Rise of Digital Reading Api 613 Fifth Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Api 613 Fifth Edition
 - 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 613 Fifth Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Api 613 Fifth Edition
 - Personalized Recommendations
 - Api 613 Fifth Edition User Reviews and Ratings
 - Api 613 Fifth Edition and Bestseller Lists
5. Accessing Api 613 Fifth Edition Free and Paid eBooks
 - Api 613 Fifth Edition Public Domain eBooks
 - Api 613 Fifth Edition eBook Subscription Services
 - Api 613 Fifth Edition Budget-Friendly Options
6. Navigating Api 613 Fifth Edition eBook Formats

- ePub, PDF, MOBI, and More
- Api 613 Fifth Edition Compatibility with Devices
- Api 613 Fifth Edition Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Api 613 Fifth Edition
 - Highlighting and Note-Taking Api 613 Fifth Edition
 - Interactive Elements Api 613 Fifth Edition
- 8. Staying Engaged with Api 613 Fifth Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Api 613 Fifth Edition
- 9. Balancing eBooks and Physical Books Api 613 Fifth Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Api 613 Fifth Edition
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Api 613 Fifth Edition
 - Setting Reading Goals Api 613 Fifth Edition
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Api 613 Fifth Edition
 - Fact-Checking eBook Content of Api 613 Fifth Edition
 - 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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