

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 Fwd'g Cfg (2.1.20.2) ☐ CW ☐ CCW
31 LS Shaft Rot Fwd'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 ☐ INSTALLATION DATA (2.1.14)

35 ☐ Indoor ☐ Heated ☐ Under Roof
36 ☐ Outdoor ☐ Unheated ☐ Partial Sides
37 ☐ Grade ☐ Mezzanine ☐
38 ☐ Winterization Req'd ☐ Tropicalization Required
39 Elec. Area (2.1.10) Class _____ Grp _____ Div _____
40 Elec'l Area (2.1.10) Class _____ Zone _____ Temp _____
41 Max Allow SPL (2.1.6) _____ dBA @ _____ m
42 Elevation _____ m Barometer _____ kPa abs
43 Range Of Ambient Temperatures:
44 Dry Bulb _____ Wet Bulb _____
45 Normal _____ °C _____ °C
46 Maximum _____ °C _____ °C
47 Minimum _____ °C _____ °C
48 Unusual Conditions ☐ Dust ☐ Fumes
49 ☐

☐ 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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M Tight



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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 **Gas Turbine Engineering Handbook** Meherwan P. Boyce, 2011-11-23 Written by one of the field s most well known experts the Gas Turbine Engineering Handbook has long been the standard for engineers involved in the design selection maintenance and operation of gas turbines With far reaching comprehensive coverage across a range of topics from design specifications to maintenance troubleshooting this one stop resource provides newcomers to the industry with all the essentials to learn and fill knowledge gaps and established practicing gas turbine engineers with a reliable go to reference This new edition brings the Gas Turbine Engineering Handbook right up to date with new legislation and emerging topics to help the next generation of gas turbine professionals understand the underlying principles of gas turbine operation the economic considerations and implications of operating these machines and how they fit in with

alternative methods of power generation The most comprehensive one stop source of information on industrial gas turbines with vital background maintenance information legislative details and calculations combined in an essential all in one reference Written by an industry leading consultant and trainer and suitable for use as a training companion or a reliable dip in guide Includes hard won information from industry experts in the form of case histories that offer practical trouble shooting guidance and solutions

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

Design, Modeling and Reliability in Rotating Machinery Robert X. Perez, 2022-01-20 Design Modeling and Reliability in ROTATING MACHINERY This broad collection of current rotating machinery topics written by industry experts is a must have for rotating equipment engineers maintenance personnel students and anyone else wanting to stay abreast with current rotating machinery concepts and technology Rotating machinery represents a broad category of equipment which includes pumps compressors fans gas turbines electric motors internal combustion engines and other equipment that are critical to the efficient operation of process facilities around the world These machines must be designed to move gases and liquids safely reliably and in an environmentally friendly manner To fully understand rotating machinery owners must be familiar with their associated technologies such as machine design lubrication fluid dynamics thermodynamics rotordynamics vibration analysis condition monitoring maintenance practices reliability theory and other topics The goal of the Advances in Rotating Machinery book series is to provide industry practitioners a time savings means of learning about the most up to date rotating machinery ideas and best practices This three book series will cover industry relevant topics such as design assessments modeling reliability improvements maintenance methods and best practices reliability audits data collection data analysis condition monitoring and more This first volume begins the series by focusing on rotating machinery design assessments modeling and analysis and reliability improvement ideas This broad collection of current rotating machinery topics written by industry experts is a must have for rotating equipment engineers maintenance personnel students and anyone else wanting to stay abreast with current rotating machinery concepts and technology Design Modeling and Reliability in Rotating Machinery covers among many other topics Rotordynamics and torsional vibration modeling Hydrodynamic bearing design theory and current practices Centrifugal and reciprocating compressor design and analysis Centrifugal pump design selection and monitoring General purpose steam turbine sizing

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

This extensively revised and updated practical resource fully explains how to diagnose troubleshoot and correct problems across a broad range of industries all without complex equations and without ever losing sight of the importance of direct field measurements and observations This fifth edition features new and expanded coverage of Causes and Effects of Wet Steam on Turbines and Strippers Distillation Design Errors and Inspecting Tower Internals Setting Pressure Relief Valves on Vessels and Heat Exchangers Reduction of Flare Losses Safer Procedures for Sampling Hazardous Material Taking Field Measurements Safely and Effectively Filled with real world examples and illustrations A Working Guide to Process Equipment Fifth Edition clearly demonstrates how theory applies to solving real world plant operation problems Selected hand calculation methods are also provided Comprehensive Coverage of Distillation Towers Tower Internals Trays and Packing Pumparounds Draw Off Nozzle Hydraulics Tower Pressure Control Cooling Water Systems Instruments Bubble Point and Dew Point Vacuum Systems Surface Condensers Shell and Tube Heat Exchangers Natural and Forced Circulation Reboilers Steam Strippers Steam and Condensate Systems Condensers and Air Coolers Fired Heaters Steam Generation Deaerators and Steam Systems Wastewater Strippers Steam Turbines Refrigeration Systems Catalytic Effects Centrifugal Pumps Control Valves Separators Centrifugal Compressors and Surge Reciprocating Compressors Corrosion Fluid Flow in Pipes Super Fractionation Stage Computer Control Field Troubleshooting Commentary on need for Suppression of CO₂ Emissions Reciprocating Machinery Dynamics Abdulla S. Rangwala,2001 An exploration of developments in and effects of internal combustion engines compressors and pumps on the structural dynamic characteristics of components and systems covering the fundamentals of vibration theory design construction and equipment operation It includes software for evaluating system and component performance spreadsheet calculations and program modules arranged to determine a full array of design parameters dimensions and dynamic characteristics **Code of Federal Regulations, Title 30, Mineral Resources, Pt. 200-699, Revised as of July 1, 2006** ,2006-10-20 The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government *Academy, with which are Incorporated Literature and the English Review* ,1892 **The Emission Inventory** ,1996 **The Book Trade in Canada** ,2009 *Transactions of the American Society of Mechanical Engineers* American Society of Mechanical Engineers,1953 Vols 2 4 11 62 68 include the Society s Membership list v 55 80 include the Journal of applied mechanics also issued separately as contributions from the Society s Applied Mechanics Division **Handbook of Measurement and Evaluation in Rehabilitation** Brian Bolton,2004 *Paper* ,1992 **Computer-readable Data Bases** ,1989 Mechanical Engineering ,1986 *Ulrich's International Periodicals Directory* Carolyn Farquhar Ulrich,1999 **Current Solutions to Hydrogen Problems in Steels** C. G. Interrante,G. M. Pressouyre,1982

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