

SPECIAL PURPOSE GEAR UNITS
API 613 FIFTH EDITION
DATA SHEET
UNIT

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 P.O. No. _____ Date _____
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Revision _____ Date _____ By _____

1 Applicable To:	<input type="radio"/> Proposal	<input type="radio"/> Purchase	<input type="radio"/> As Built	<input type="radio"/> US Standards (1.7)	<input type="radio"/> ISO Standards (1.7)
2 For:				Manufacturer:	
3 Site:				Model No.:	
4 Unit:				Serial No.:	
5 Service:				Driver Type:	
6 No. Required:				Driven Equipment:	
NOTE: Numbers Within () Refer To Applicable API Standard 613 Paragraphs					
<input type="radio"/> Information To Be Completed By Purchaser			<input type="checkbox"/> Information To Be Completed By Manufacturer		
<input type="radio"/> UNITS OF MEASUREMENT (1.8)			<input type="checkbox"/> BASIC GEAR DATA		
<input type="radio"/> US Customary Units			<input type="checkbox"/> Single Stage <input type="checkbox"/> Single Helical		
<input type="radio"/> SI Units			<input type="checkbox"/> Double Stage <input type="checkbox"/> Double Helical		
<input type="radio"/> RATING REQUIREMENTS			<input type="checkbox"/> Epicyclic <input type="checkbox"/>		
14 Driven Equip. Inv (2.1.4):	Norm.	Max.			
15 Driver Inv:	Rated	Max.			
16 Nominal Transmitted Power (2.2.20)	kW		Mechanical Rating (1.5.16) kW <input type="checkbox"/> RPM		
17 Gear Unit Rated Power (2.2.10)	kW		Gear Service Factor (2.2.3.1) <input type="checkbox"/> (Actual)		
18 Torque @ Max Cont Speed	kg m		Full Load Gear Unit Power Loss <input type="checkbox"/> kW		
19 Max Torque (2.2.1)	kg m		Gear Unit Mechanical Efficiency <input type="checkbox"/> %		
20 <input type="radio"/> Reducer <input type="radio"/> Multiplier			Rating Speed, RPM: Pinion <input type="checkbox"/> Gear <input type="checkbox"/>		
21 Rated Speed, RPM (2.1.5):			Hardness used for:		
22 Input	<input type="radio"/> Specified	<input type="radio"/> Nominal	Rating (HB or RC): Pinion <input type="checkbox"/> Gear <input type="checkbox"/>		
23 Output	<input type="radio"/> Specified	<input type="radio"/> Nominal	Tooth Pitting Index, "K" mpa (2.2.4.1)(2.2.4.2):		
24 Allow Var In Gear Ratio (2.1.5) (+/-)	%		Allowable <input type="checkbox"/> Actual <input type="checkbox"/>		
25 Max Continuous Speed (1.5)	RPM		Material Index Number, mpa (Fig 3, Table 4)		
26 Trip Speed (1.5)(2.1.7)	RPM		Bending stress number, "S" mpa (2.2.5.10)(2.2.5.2)		
27 Gear Service Factor (2.2.3.1)	(Min)		Pinion: Allowable <input type="checkbox"/> Actual <input type="checkbox"/> Gear: Allowable <input type="checkbox"/> Actual <input type="checkbox"/>		
28 Hardness (2.2.3.20): Pinion	Gear		Pitch Line Velocity <input type="checkbox"/> mm/sec		
29 Shaft Assembly Designation (2.1.10)			Anticipated SPL (2.1.6) <input type="checkbox"/> dBA <input type="checkbox"/> m		
30 HS Shaft Ret Fwdg Cfg (2.1.20.2)	<input type="radio"/> CW	<input type="radio"/> CCW	WIR ² Referred To LS Shaft <input type="checkbox"/> kg/mm ²		
31 LS Shaft Ret Fwdg Cfg (2.1.20.2)	<input type="radio"/> CW	<input type="radio"/> CCW	Breakaway Torque <input type="checkbox"/> kg cm		
32 External Loads (2.1.10)			Pinion teeth: Hardness Range		
33 Other Operating Conditions (2.2.2) (2.6.1.3)			Pinion teeth hardening method:		
<input type="radio"/> INSTALLATION DATA (2.1.14)					
36 <input type="radio"/> Indoor	<input type="radio"/> Heated	<input type="radio"/> Under Roof	<input type="checkbox"/> HS Shaft Separate Hardness Range		
37 <input type="radio"/> Outdoor	<input type="radio"/> Unheated	<input type="radio"/> Partial Sides	Gear teeth (in): Hardness Range		
38 <input type="radio"/> Grade	<input type="radio"/> Mezzanine	<input type="radio"/>	Gear teeth hardening method:		
39 <input type="radio"/> Winterization Req'd	<input type="radio"/> Tropicalization Required		Gear Hub:		
40 Elec. Area (2.1.10): Class	Grp	DIV	<input type="checkbox"/> Forged Cylinder <input type="checkbox"/> Forged & Coped <input type="checkbox"/> Fabricated		
41 Elec. Area (2.1.10): Class	Zone	Temp	Gear To Shaft fit method (2.5.3.2)		
42 Max Allow SPL (2.1.6)	dBA <input type="checkbox"/>	in	<input type="checkbox"/> Integral <input type="checkbox"/> Keyed Interference <input type="checkbox"/> Keyless Interference		
43 Elevation	in Barometer	kPa abs	Pim Attachment (2.5.3.2)		
44 Range Of Ambient Temperatures:					
45 Dry Bulb	Wet Bulb		LS Shaft Hardness Range		
46 Normal	°C	°C	Journal static Weight loads (2.6.6.3)		
47 Maximum	°C	°C	Pinion <input type="checkbox"/> kg Gear <input type="checkbox"/> kg		
48 Minimum	°C	°C	Total Gear Unit Assembled Weight <input type="checkbox"/> kg		
49 Unusual Conditions	<input type="radio"/> Dust	<input type="radio"/> Fumes	NOTES: _____		
50					

Api 613 Fifth Edition

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

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

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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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