

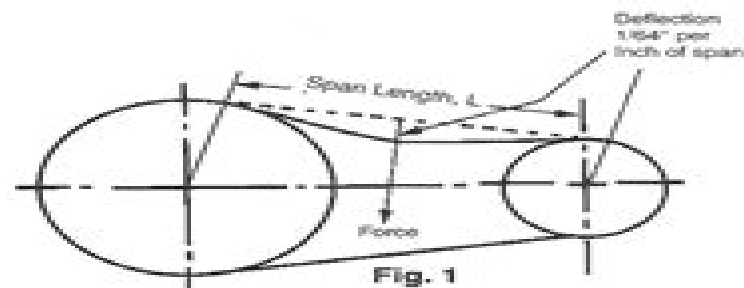
The key to long, efficient trouble-free belt operation is proper tension. If belts are too loose, the result is slippage, rapid belt and sheave wear and excessive "down time."

Conversely, too much tension imposes excessive strain on belts, bearing and adjacent drive components, resulting in premature wear of one or all of the drive parts.

The proper tension is the lowest tension at which the belt(s) won't slip or "squeal" under peak load.

Tensioning Procedures

1. Measure the span length (L) in Fig. 1.
2. At the centre of the span (L) apply a force perpendicular to the belt measuring the need to deflect the belt 1/64" per inch of span length (L).
3. Compare the force required in step 2 to the recommended range(s) in the appropriate table(s). Tighten or loosen the belt tension to bring the tension into the recommended range.
4. For V-belts, run the drive for five (5) or ten (10) minutes to seat the belt and then recheck the tension.
5. For timing belts, the belt should fit snugly - neither too tight nor too loose. The "tooth grip" eliminates the need for high initial tension.



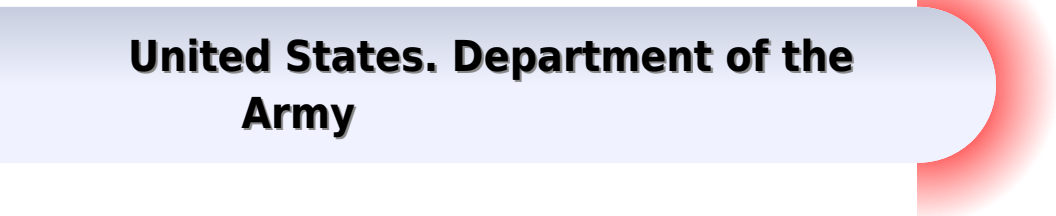
V-BELT DRIVES

V Belt Cross Section	Small Sheave Diameter Range (Inches)	Recommended Deflection Force (Lbs.)*		
		Initial Installation	Retensioning	
			Maximum	Minimum
A	-3.0	3.6	3.1	2.4
	3.1-4.0	4.2	3.6	2.8
	4.1-5.0	5.2	4.6	3.5
	5.1-	6.1	5.3	4.1
B	-4.6	7.3	6.4	4.9
	4.7-5.6	8.7	7.5	5.8
	5.7-7.0	9.3	8.1	6.2
	7.1-	10.0	8.8	6.8
C	-7.0	12.5	10.7	8.2
	7.1-9.0	15.0	13.0	10.0
	9.1-12.0	18.0	16.3	12.5
	12.1-	19.5	16.9	13.0
D	12.0-13.0	25.5*	22.1	17.0
	13.1-15.5	30.0*	26.0*	20.0
	15.6-22.0	32.0*	28.0*	21.5
E	18.0-22.0	45.0*	39.0*	30.0*
	22.1-	52.5*	45.5*	35.0*
3L	1.5-2.0	1.4	1.1	0.8
	2.1-2.7	1.9	1.4	1.1
	2.8-4.0	2.5	2.0	1.5
4L	2.0-2.5	2.1	1.6	1.2
	2.6-3.5	2.4	1.8	1.4
	3.6-5.0	3.1	2.3	1.8
5L	3.0-3.5	3.2	2.5	1.9
	3.6-4.5	4.1	3.2	2.4
	4.6-6.0	5.1	3.9	3.0

V Belt Cross Section	Small Sheave Diameter Range (Inches)	Recommended Deflection Force (Lbs.)*		
		Initial Installation	Retensioning	
			Maximum	Minimum
3V	2.65-3.35	4.6	4.0	3.1
	3.65-4.50	5.5	4.8	3.7
	4.75-6.0	6.4	5.6	4.3
	6.5-10.6	7.3	6.4	4.9
5V	7.1-10.3	16.5	14.3	11.0
	10.9-11.8	19.5	16.9	13.0
	12.5-16.0	21.0	18.2	14.0
8V	12.5-16.0	39.0*	33.8*	26.0*
	17.0-20.0	45.0*	39.0*	30.0*
	21.2-24.4	51.0*	44.2*	34.0*
3VX	2.2-2.5	4.8	4.2	3.2
	2.65-4.75	5.7	4.9	3.8
	5.0-6.5	7.2	6.2	4.8
	6.9-	8.7	7.5	5.8
5VX	-5.5	15.0	13.0	10.0
	5.9-8.0	19.0	16.9	13.0
	8.5-10.9	21.0	18.2	14.0
	11.8-	22.0	19.5	15.0
AX	-3.0	5.1	4.4	3.4
	3.1-4.0	5.5	4.8	3.7
	4.1-5.0	6.0	5.2	4.0
	5.1-	6.7	5.9	4.5
BX	-4.6	10.0	8.7	6.7
	4.7-5.6	11.0	9.5	7.3
	5.7-7.0	11.5	9.9	7.6
	7.1-	12.0	10.1	7.8
CX	-7.0	18.0	15.6	12.0
	7.1-9.0	19.5	16.9	13.0
	9.1-12.0	20.0	17.6	13.5
	12.1-	21.0	18.2	14.0

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**United States. Department of the
Army**



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, Reciprocating Compressors: Heinz P. Bloch, John J. Hoefner, 1996-10-08 Reciprocating compressors and their applications Design and materials of reciprocating compressor components Operation and maintenance of reciprocating compressors Overhaul and repair of reciprocating compressors Troubleshooting compressor problems Preventive maintenance of reciprocating compressors Safety in operation and maintenance Appendix Reciprocating compressor calculations Index **Field Manuals** United States. War Department, 1978-07 Practical Plant Failure Analysis Neville W. Sachs, 2016-04-19 Component failures result from a combination of factors involving materials science mechanics thermodynamics corrosion and tribology With the right guidance you don't have to be an authority in all of these areas to become skilled at diagnosing and preventing failures Based on the author's more than thirty years of experience Practical Plant Failure Analysis A Guide to Understanding Machinery Deterioration and Improving Equipment Reliability is a down to earth guide to improving machinery maintenance and reliability Illustrated with hundreds of diagrams and photographs this book examines When and how to conduct a physical failure analysis Basic material properties including heat treating mechanisms work hardening and the effects of temperature changes on material properties The differences in appearance between ductile overload brittle overload and fatigue failures High cycle fatigue and how to differentiate between high stress concentrations and high operating stresses Low cycle fatigue and unusual fatigue situations Lubrication and its influence on the three basic bearing designs Ball and roller bearings gears fasteners V belts and synchronous belts Taking a detailed and systematic approach Practical Plant Failure Analysis thoroughly explains the four major failure mechanisms wear corrosion overload and fatigue as well as how to identify them The author clearly identifies how these mechanisms appear in various components and supplies convenient charts that demonstrate how to identify the specific causes of failure **Soldier's Manual** United States. Department of the Army, 1980 **Chilton Book Company Repair & Tune-up Guide** , 1987

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These are the same as the righthand or lefthand of an observer standing behind the vehicle and looking forward

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Guidelines for Saving Energy in Existing Buildings United States. Office of Energy Conservation and Environment,1975 This report examines national energy usage in existing

commercial buildings methods of reducing energy consumption through conservation and the resulting costs and benefits It includes a wide range of opportunities and options to save energy and operating costs through proper operation and maintenance It also includes minor modifications to the building and mechanical and electrical systems which can be implemented promptly with little if any investment costs **PS, the Preventive Maintenance Monthly** ,1957 The Preventive Maintenance Monthly is an official publication of the Army providing information for all soldiers assigned to combat and combat duties The magazine covers issues concerning maintenance maintenance procedures and supply problems **Chilton's Guide to Air Conditioning Repair and Service** Chilton Book Company,1985 Provides maintenance troubleshooting and repair information for automotive air conditioning and related parts for domestic and import cars built between 1982 85 Practical Plant Failure Analysis P.E. Sachs,2019-10-08 This is a practical guide for those who do the work of maintaining and improving the reliability of mechanical machinery It is for engineers and skilled trades personnel who want to understand how failures happen and how the physical causes of the great majority can be readily diagnosed in the field It explains the four major failure mechanisms wear corrosion overload and fatigue and using easy to read charts how they can be diagnosed at the site of the failure Then knowing the physical failure mechanics involved the reader can accurately solve the human causes To improve the reader s understanding all the diagrams and most of the tables have been redrawn The number of actual failure examples has been increased plus the last chapter on miscellaneous machine elements includes new material on couplings universal joints and plain bearings Features A practical field guide showing how to recognize how failures occur that can be used to solve more than 85% of mechanical machinery failures Incorporates multiple easy to follow logic trees to help the reader diagnose the physical causes of the failure without needing detailed laboratory analysis Explains how the mechanics corrosion materials science and tribology of components can fit together to improve machinery reliability Includes more than 150 completely redrawn charts and tables plus almost 250 actual failure photographs to help guide the reader to an accurate analysis Contains clear and detailed explanations of how lubricants function and the critical roles of corrosion and lubrication play in causing mechanical failures *Fundamentals of Automotive Technology* Kirk VanGelder,Kirk T. VanGelder,2022-02-23 Fundamentals of Automotive Technology Principles and Practice Third Edition is a comprehensive resource that provides students with the necessary knowledge and skills to successfully master these tasks **Guidelines for Saving Energy in Existing Buildings: Building owners and operators manual** Dubin-Mindell-Bloome Associates,United States. Office of Energy Conservation and Environment,1975 **Popular Mechanics** ,1974-05 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **Official Gazette of the United States Patent and Trademark Office** ,2007 *Technical Manual* United States. War Department,1944

Design of Machine Elements Mr. V. Venkatrami Reddy, Prof. Mangesh Ambadas Ahire, Dr. Nitin Keshaorao Khedkar, Dr. B.R. Senthil Kumar, 2024-08-16 Design of Machine Elements is focused on the principles and applications of designing various mechanical components essential to machine construction. This fundamental concepts of stress analysis material selection and safety factors with chapters dedicated to specific elements such as shafts bearings gears springs and fasteners. It integrates theoretical insights with practical design examples ensuring students and engineers understand both analytical and computational methods for safe and efficient designs. Ideal for engineering students and professionals it provides tools to navigate complex mechanical design challenges across industries.

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