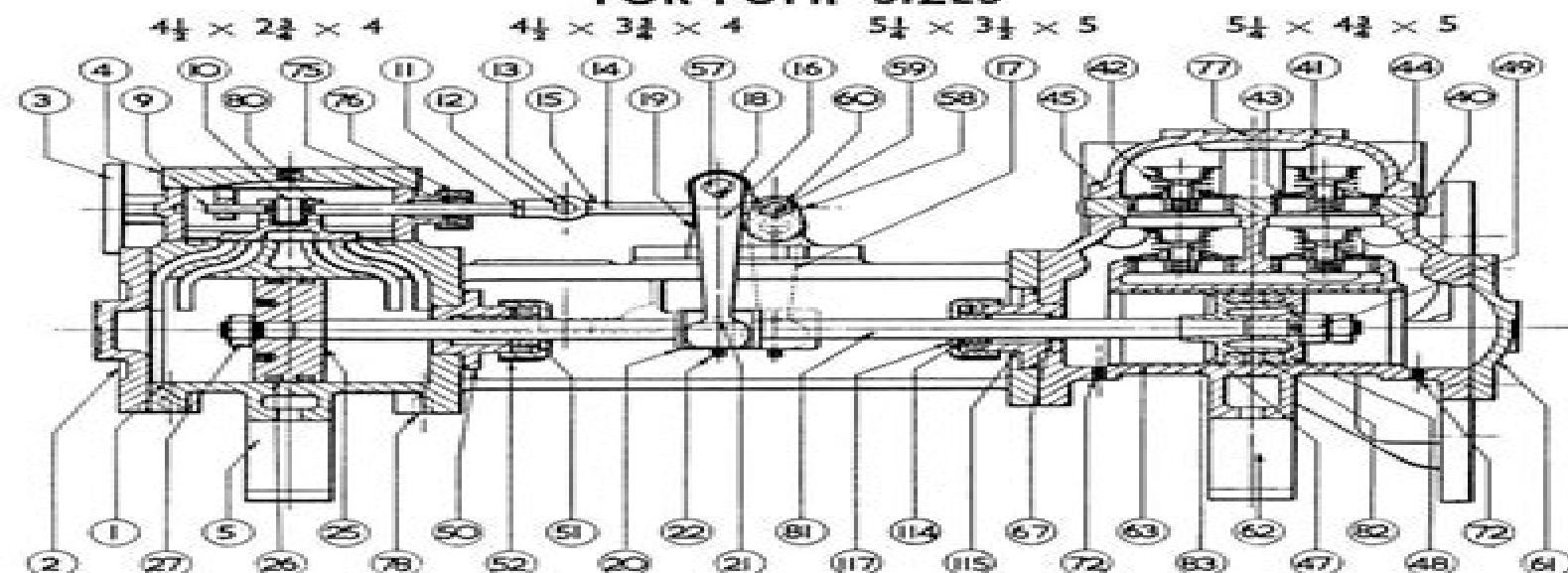


# TYPES GS(B), LS(B) HORIZONTAL DUPLEX STEAM PUMPS

## TYPICAL SECTION AND LIST OF PARTS FOR PUMP SIZES



Ref.	Name of Part	Ref.	Name of Part	Ref.	Name of Part
1	Steam Cylinder	25	Steam Piston	61	Liquid Cylinder Head
2	Steam Cylinder Head	26	Steam Piston Ring	62	Liquid Cylinder Foot
3	Steam Chest	27	Piston Rod Nut (Steam End)	63	Liquid Cylinder Lining
4	Steam Chest Cover	40	Valve Place	47	Liquid Cylinder Stuffing Box Neck Bush
5	Steam Cylinder Foot	41	Liquid Valve Guard	72	Liquid Cylinder Drain Plug
9	Valve Rod	42	Liquid Valve Guard Spring	75	Steam Chest Stuffing Box Gland
10	Valve Rod Nut	43	Liquid Valve	76	Steam Chest Stuffing Box Nut
11	Valve Rod Head	44	Liquid Valve Seat	77	Air Cock
12	Valve Rod Head Pin	45	Force Chamber	78	Drain Cock
13	Valve Rod Head Pin Nut	47	Liquid Piston Body	80	Slide Valve
14	Valve Rod Link, Long	48	Liquid Piston Follower	81	Piston Rod
15	Valve Rod Link, Short	49	Piston Rod Nut (Liquid End)	82	Liquid Piston Rings, Rockhard
16	Rock Shaft Lever, Long	50	Steam Cylinder Scuffing Box	83	Liquid Cylinder
17	Rock Shaft Lever, Short	51	Steam Cylinder Stuffing Box Gland	114	Liquid Cylinder Stuffing Box Gland
18	Rock Shaft Key	52	Steam Cylinder Stuffing Box Nut	115	Liquid Cylinder Stuffing Box
19	Cross Stand	57	Upper Rock Shaft	117	Liquid Cylinder Scuffing Box Nut
20	Spool	58	Lower Rock Shaft		
21	Spool Pin	59	Crank Pin		
22	Spool Set Screw	60	Crank Pin Nut		

**SPARES**—When ordering spares it is essential that the serial number and size of pump stamped on the nameplate is quoted together with name and number of part required, obtainable from the numbered sectional arrangement drawing for the required size of pump. Sectional arrangement drawings are correct for cast iron, fully brass fitted pumps. The construction may vary for pumps made of other materials.

# Worthington Pump Manual

**United States. Department of the  
Army**



## **Worthington Pump Manual:**

**Worthington Pump Handbook** Worthington Pump and Machinery Corporation,1927      **General Instructions for Erection and Working of Worthington Centrifugal Pumps** Worthington Pump and Machinery Corporation, Henry Rossiter Worthington,1909      Pump User's Handbook Heinz P. Bloch, Allan R. Budris,2021-01-07 This text explains just how and why the best of class pump users are consistently achieving superior run lengths low maintenance expenditures and unexcelled safety and reliability Written by practicing engineers whose working career was marked by involvement in pump specification installation reliability assessment component upgrading maintenance cost reduction operation troubleshooting and all conceivable facets of pumping technology this text describes in detail how to accomplish best of class performance and low life cycle cost      **Handbook of Pumps and Pumping** Brian Nesbitt,2006-10-18 Written by an experienced engineer this book contains practical information on all aspects of pumps including classifications materials seals installation commissioning and maintenance In addition you will find essential information on units manufacturers and suppliers worldwide providing a unique reference for your desk R D lab maintenance shop or library Includes maintenance techniques helping you get the optimal performance out of your pump and reducing maintenance costs Will help you to understand seals couplings and ancillary equipment ensuring systems are set up properly to save time and money Provides useful contacts for manufacturers and suppliers who specialise in pumps pumping and ancillary equipment      **Index of Supply Manuals - Transportation Corps** United States. Department of the Army,1956      **Index of Technical Manuals, Technical Regulations, Technical Bulletins, Supply Bulletins, Lubrications Orders, and Modification Work Orders** United States. Department of the Army,1954      *The Mines Handbook* Walter Garfield Neale, Lenox Hawes Rand, Edward Barney Sturgis,1916      **The Mines Handbook** ,1916      **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1959 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June      **Worthington pump handbook; design, construction and application of all commercial types of pumps** Worthington Pump and Machinery Corporation,1927      **Process Control** Béla G. Lipták,2013-10-02 Instrument Engineers Handbook Third Edition Process Control provides information pertinent to control hardware including transmitters controllers control valves displays and computer systems This book presents the control theory and shows how the unit processes of distillation and chemical reaction should be controlled Organized into eight chapters this edition begins with an overview of the method needed for the state of the art practice of process control This text then examines the relative merits of digital and analog displays and computers Other chapters consider the basic industrial annunciators and other alarm systems which consist of multiple individual alarm points that are connected to a trouble contact a logic module and a visual indicator This book discusses as well the data loggers available for process control applications The final chapter deals with the various pump control systems the features and designs of variable speed drives and the metering pumps This book is a

valuable resource for engineers      *The Electrician Electrical Trades Directory and Handbook* ,1911      **The Reference Catalogue of Current Literature** ,1906      Reference Catalogue of Current Literature ,1928      Special Regulations United States. Department of the Army,1954      *Farm Machinery and Equipment* ,1922      **The Municipal Handbook of New Zealand** ,1910      *Handbook of Ship Calculations, Construction and Operation* Charles Haynes Hughes,1917      The Municipal Handbook of New Zealand ... New Zealand. Census and Statistics Department,1910      *The Davis Handbook of the Cobalt Silver District* Harold Palmer Davis,1910

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