

OPERATOR'S MANUAL

INCLUDING: OPERATION, INSTALLATION & MAINTENANCE

66610X-X-C

RELEASED: 8-24-89
REVISED: 5-25-06
(REV. W)

1" DIAPHRAGM PUMP 1:1 RATIO (METALLIC)



**READ THIS MANUAL CAREFULLY BEFORE INSTALLING,
OPERATING OR SERVICING THIS EQUIPMENT.**

It is the responsibility of the employer to place this information in the hands of the operator. Keep for future reference.

SERVICE KITS

Refer to "Model Description Chart" to match the pump material options.
637118-C for air section repair (see page 6).

637119-XX-C for fluid section repair (see page 4).

637167 abrasion resistant conversion kit is available for use in heavy
and abrasive material applications (see page 4).

PUMP DATA

Models see "Model Description Chart" for "XXX"
Pump Type Metallic Air Operated Double Diaphragm.
Material see "Model Description Chart".

Weight Aluminum 19 lbs (8.62 kg)
..... Cast Iron 31 lbs (14.06 kg)
..... Stainless Steel 36 lbs (16.33 kg)
[add 8 lbs (3.63 kg) for cast iron air motor section]

Maximum Air Inlet Pressure 120 p.s.i. (8.3 bar)

Maximum Material Inlet Pressure 10 p.s.i. (0.69 bar)

Maximum Outlet Pressure 120 p.s.i. (8.3 bar)

Maximum Flow Rate (flooded inlet) 35 g.p.m. (133 l.p.m.)

Maximum Particle Size 1/8" dia. (3.2 mm)

Maximum Temperature Limits (diaphragm / ball / seal material)

Acetal	10° to 180° F (-12° to 82° C)
E.P.R. / EPDM	-60° to 280° F (-51° to 138° C)
Hydrel®	-20° to 150° F (-29° to 66° C)
Neoprene	0° to 200° F (-18° to 93° C)
Nitrile	10° to 180° F (-12° to 82° C)
Polypropylene	35° to 150° F (2° to 66° C)
Polyurethane	10° to 150° F (-12° to 66° C)
P.V.D.F. (Kynar®)	10° to 200° F (-12° to 93° C)
Santoprene®	-40° to 225° F (-40° to 107° C)
T.F.E. (Teflon®)	40° to 225° F (4° to 107° C)
Viton®	-40° to 350° F (-40° to 177° C)

Dimensional Data see page 8.

Noise Level @ 70 p.s.i., 60 c.p.m. 64.5 db(A)*

* The pump sound pressure levels published here have been updated to an Equivalent Continuous Sound Level (A-weighted) to meet the intent of ANSI S1.13-1971, CAGI PNEUMOP SS.1 using four microphone locations.

NOTICE: All possible options are shown in the chart. However, certain combinations may not be recommended, consult a representative or the factory if you have questions concerning availability.

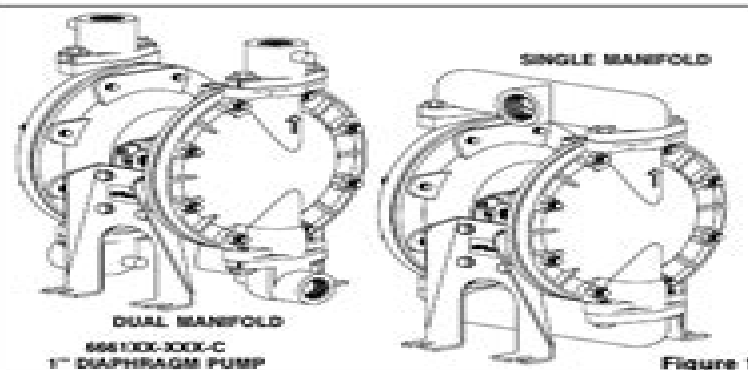


Figure 1

MODEL DESCRIPTION CHART

6661 XX - XXX - C

Center Body Material, Threads

0 - Aluminum, N.P.T.F.	2 - Aluminum, BSP
1 - Cast Iron, N.P.T.F.	3 - Cast Iron, BSP

Fluid Cap / Manifold Material, Inlet / Outlet

(Steel Hardware)	(Stainless Steel Hardware)
0 - Aluminum, Single	A - Aluminum, Single
1 - Stainless Steel, Single	B - Stainless Steel, Single
2 - Cast Iron, Single	C - Cast Iron, Single
3 - Stainless Steel, Dual	D - Stainless Steel, Dual

Seal Material

1 - Aluminum	4 - P.V.D.F. (Kynar)
2 - 316 Stainless Steel	5 - Carbon Steel
3 - Polypropylene	6 - Hard 440 Stainless Steel

Ball Material

1 - Neoprene	6 - Acetal
2 - Nitrile	7 - Polyurethane
3 - Viton	A - Stainless Steel
4 - T.F.E. (Teflon)	C - Hydrel
5 - E.P.R.	E - Santoprene

Diaphragm Material

1 - Neoprene	3 - Viton	9 - Hydrel
2 - Nitrile	5 - E.P.R.	B - Santoprene
4 - T.F.E. (Teflon) / Santoprene		

FLUID SECTION SERVICE KIT SELECTION

66610X - XX - C

EXAMPLE: Model # 66610X-361-C

637119 - [XX] - C

Fluid Section Service Kit # 637119-61-C

Ball [] Diaphragm []

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Ingersoll Rand Pump Manuals

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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 **Pump User's Handbook** Heinz P. Bloch, Allan R. Budris, 2004-07-13 A valuable reference Pump User's Handbook Life Extension 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 The book conveys in detail what must be done to rapidly accomplish best of class performance and low life cycle cost Simply put the text explains what exactly needs to be done if a facility wants to progress from being a one two or three year pump MTBF plant and wishes to join the leading money making facilities that today achieve a demonstrated pump MTBF of 8 6 years Written by two practicing engineers whose combined 80 year working career included all conceivable facets of pumping technology book provides experience based details data guidance direction explanations and firm recommendations Implementing what this text explains will allow a plant to move from yesterday's demonstrably unprofitable and costly repair focus to tomorrow's absolutely necessary reliability focus [Index of Technical Manuals, Technical Regulations, Technical Bulletins, Supply Bulletins, Lubrications Orders, and Modification Work Orders](#) United States. Department of the Army, 1954 *Field Manuals* United States. War Department, 1948 [Technical Manual](#) United States. War Department, 1944 **Pipeline Rules of Thumb Handbook** E.W. McAllister, 2015-06-02 This classic reference has built a reputation as the go to book to solve even the most vexing pipeline problems Now in its seventh edition Pipeline Rules of Thumb Handbook continues to set the standard by which all others are judged The 7th edition features over 30% new and updated sections reflecting the exponential changes in the codes construction and equipment since the sixth edition The seventh edition includes recommended drill sizes for self tapping screws new ASTM standard reinforcing bars calculations for calculating grounding resistance national Electrical Code tables Coriolis meters pump seals progressive cavity pumps and accumulators for lubricating systems Shortcuts for pipeline construction design and engineering Calculations methods and handy formulas Turnkey solutions to the most vexing pipeline problems **Index of Supply Manuals - Transportation Corps** United States. Department of the Army, 1956 **Department of Defense Appropriations** United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense, 1956 [ASHRAE Handbook & Product Directory](#), 1975 [Pipeline Rules of Thumb Handbook](#) M.J. Kaiser, E.W. McAllister, 2022-09-02 Pipeline

Rules of Thumb Handbook A Manual of Quick Accurate Solutions to Everyday Pipeline Engineering Problems Ninth Edition the latest release in the series serves as the go to source for all pipeline engineering answers Updated with new data graphs and chapters devoted to economics and the environment this new edition delivers on new topics including emissions decommissioning cost curves and more while still maintaining the quick answer standard display of content and data that engineers have utilized throughout their careers Glossaries are added per chapter for better learning tactics along with additional storage tank and LNG fundamentals This book continues to be the high quality classic reference to help pipeline engineers solve their day to day problems Contains new chapters that highlight costs safety and environmental topics including discussions on emissions Helps readers learn terminology with updated glossaries in every chapter Includes renovated graphs and data tables throughout Air Force Manual United States. Department of the Air Force,1966 **The Waterworks Buyers' Guide and Reference Manual** ,1915 Index of Supply Manuals, Corps of Engineers United States. Department of the Army,1955 **Moody's Industrial Manual** ,1927 Moody's Manual of Investments John Sherman Porter,1929 American government securities 1928 53 in 5 annual vols v 1 Railroad securities 1952 53 Transportation v 2 Industrial securities v 3 Public utility securities v 4 Government securities 1928 54 v 5 Banks insurance companies investment trusts real estate finance and credit companies 1928 54 **Handbook of Valves and Actuators** Brian Nesbitt,2011-04-19 Industries that use pumps seals and pipes will also use valves and actuators in their systems This key reference provides anyone who designs uses specifies or maintains valves and valve systems with all of the critical design specification performance and operational information they need for the job in hand Brian Nesbitt is a well known consultant with a considerable publishing record A lifetime of experience backs up the huge amount of practical detail in this volume Valves and actuators are widely used across industry and this dedicated reference provides all the information plant designers specifiers or those involved with maintenance require Practical approach backed up with technical detail and engineering know how makes this the ideal single volume reference Compares and contrasts valve and actuator types to ensure the right equipment is chosen for the right application and properly maintained *Hearings* United States. Congress. House. Committee on Appropriations,1957 **Design Manual, Mechanical Engineering** United States. Naval Facilities Engineering Command,1972 **Index of Technical Publications** United States. Department of the Army,1977 **The Mines Handbook** Walter Garfield Neale,Lenox Hawes Rand,Edward Barney Sturgis,1916

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fias is a common protocol for interfacing with hotel management system

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web fias is short for fidelio interface application specification it is often used as an interface to the front office system in the hotel industry these systems provide all sorts of services necessary for the operation of a hotel for instance check in check out and billing

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web description fidelio is the hotel management system from company micros fias is the interface and the protocol allowing the communication with a saia pcd both serial rs232 and tcp ip communication are possible

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