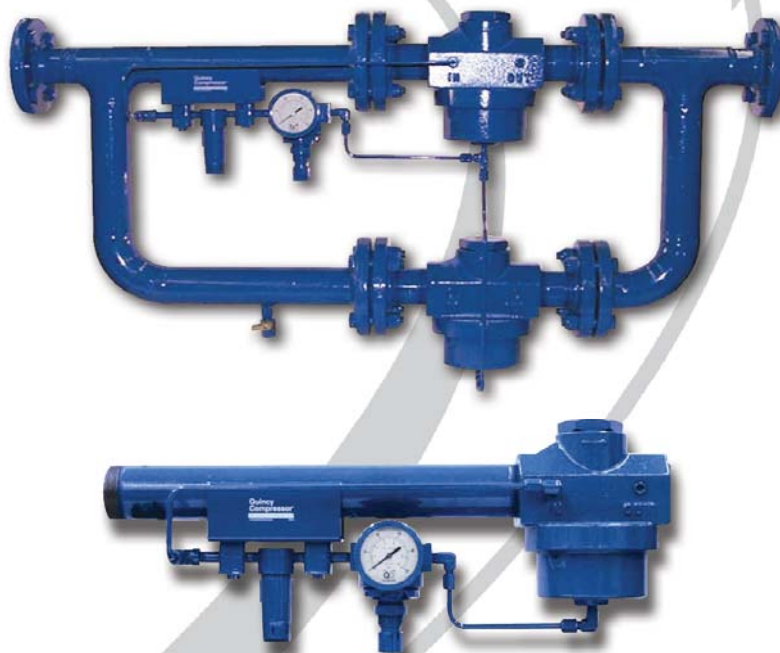




Quincy Pneumatic Pressure Flow Control



Installation Instructions & Operator's Manual

This manual contains important safety information and should be made available to all personnel who operate and/or maintain this product. Carefully read this manual before attempting to operate or perform maintenance on this equipment.

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STANDARD WARRANTY

Quincy Compressor - Quincy Air System (QAS) Products

Seller warrants products of its own manufacture against defects in workmanship and materials under normal use and service, as follows:

Quincy Pneumatic Pressure Flow Control (PPFC) - Twelve (12) months from date of shipment from the factory.

Parts - Ninety (90) days from date of Distributor sale or one (1) year from date of factory shipment.

With respect to products not manufactured by Seller, Seller will, if practical, pass along the warranty of the original manufacturer.

Notice of the alleged defect must be given to Seller in writing with all identifying details including serial number, model number, type of equipment and date of purchase, within thirty (30) days of the discovery of same during the warranty period.

Seller's sole obligation on this warranty shall be, at its option, to repair, replace or refund the purchase price of any product or part thereof which proves to be defective. If requested by Seller, such product or part thereof must be promptly returned to Seller, freight collect for inspection.

Seller warrants factory repaired or replaced parts of its own manufacture against defects in material and workmanship under normal use and service for ninety (90) days or for the remainder of the warranty on the product being repaired, whichever is longer.

This warranty shall not apply and Seller shall not be responsible or liable for:

- (a) Consequential, collateral or special losses or damages;
- (b) Equipment conditions caused by fair wear and tear, abnormal conditions of use, accident, neglect or misuse of equipment, improper storage or damages resulting during shipment;
- (c) Deviation from operating instructions, specifications, or other special terms of sales;
- (d) Labor charges, loss or damage resulting from improper operation, maintenance or repairs made by person(s) other than Seller or Seller's authorized service station.
- (e) Improper application of product.

In no event shall Seller be liable for any claims, whether arising from breach of contract or warranty of claims of negligence or negligent manufacture, in excess of the purchase price.

THIS WARRANTY IS THE SOLE WARRANTY OF SELLER AND ANY OTHER WARRANTIES, EXPRESS, IMPLIED IN LAW OR IMPLIED IN FACT, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE, ARE HEREBY SPECIFICALLY EXCLUDED.

Section I - General Information

Introduction

The Quincy Pneumatic Pressure Flow Control (PPFC) is designed to operate in compressed air systems up to a maximum of 200 psig. When properly placed in the compressed air system, the controller separates the supply side from the demand side of the compressed air system, allowing each to be operated independently. Real storage is created through the use of existing dry side receivers and added air receivers. Compressed air is stored at a higher pressure, reserving energy for changes in compressed air demand. When used with good compressor control, the controller can prevent unnecessary compressor starts, stabilize pressure, reduce maintenance expenses and save energy. A flow controller allows you to operate the demand side of your air system at the lowest tolerable level with the security of stored energy on the supply side in the air receivers. This reduces wasted air through leaks and eliminates artificial demand. This improves the quality and consistency of plant operations.

Safety Precautions

The Quincy PPFC is pressurized, therefore, the same precautions should be observed as with any piece of machinery of this type. Carelessness in operation or maintenance can be hazardous to personnel. In addition to the many obvious safety rules that should be followed with this type of machinery, the safety precautions listed below must be observed:

1. Only qualified personnel shall be permitted to adjust, perform maintenance or repair this equipment.
2. Read all instructions completely before operating unit.
3. Do not attempt to service any parts while machine is in an operational mode.
4. Do not attempt to remove any parts without first relieving the entire pressure of air system of pressure.
5. Do not operate the equipment at pressures in excess of its rating.
6. Inspect unit daily to observe and correct any unsafe operating conditions.

Receiving & Inspection

Upon receiving your equipment, please inspect the unit closely. If any signs of rough handling are detected, please note it on your delivery receipt, especially if the unit will not be immediately uncrated. Obtaining the delivery person's signed agreement to any noted damages will facilitate any insurance claims.

Spare Parts Ordering Information

Quincy Compressor maintains replacement parts for Quincy compressor products. A repair parts list is shipped with all new products. Order parts from your Authorized Quincy distributor. Use only genuine Quincy replacement parts. Failure to do so may void warranty.

Installation & Operation

- The PPFC must be placed in a common pipeline feeding the entire facility or desired area of the facility. No other path can be allowed from supply to demand side piping.
- The PPFC must be installed horizontally to allow for removal of contaminants in the bypass piping through the drain valves.
- The PPFC must be placed downstream of all cleanup equipment (dryers, after-coolers, etc.) and all control storage air receivers and storage tanks.
- For operational and maintenance purposes, the PPFC should be placed at ground level if possible. Overhead piping should be routed to the floor level and back up to the ceiling level after passing through the controller.
- The lower the user pressure set point, the greater the differential pressure will exist between the control storage and the plant pressure, thus providing more control storage to handle system events and providing better control of the plant pressure.
- A three valve bypass arrangement is recommended for maintenance purposes using flanges or unions.
- Adjust the plant pressure by simply rotating the knob on the pilot air pressure regulator to the desired pressure. The gauge displays the pilot or set point pressure.

Section II - Installation & Operation

Routine Maintenance

The Quincy PPFC requires minimal maintenance. The following summarizes the required maintenance operations:

- Drain the coalescing filter and the drains on the bypass valve daily.
- The coalescing pre-filter should be changed every 3 months.

Troubleshooting

Should the PPFC not function properly, troubleshoot as follows fixes:

- If the plant pressure drops below the pilot pressure level make sure the pressure in the air receiver(s) is at least 5-7 psig higher than the desired plant pressure.
- If the flow controller operates erratically or becomes sticky clean and re-build the flow control valve(s).
- If you are unable to adjust the pilot pressure to the desired level, the diaphragm inside the pilot pressure regulator may be torn and need replacement. Clean and replace coalescing filters as needed.

STANDARD TERMS AND CONDITIONS

QUINCY COMPRESSOR

TITLE & LIEN RIGHTS: The equipment shall remain personal property, regardless of how affixed to any realty or structure. Until the price (including any notes given therefore) of the equipment has been fully paid in cash, Seller shall, in the event of Buyer's default, have the right to repossess such equipment.

PATENT INFRINGEMENT: If properly notified and given an opportunity to do so with friendly assistance, Seller will defend Buyer and the ultimate user of the equipment from any actual or alleged infringement of any published United States patent by the equipment or any part thereof furnished pursuant hereto (other than parts of special design, construction, or manufacture specified by and originating with Buyer), and will pay all damages and costs awarded by competent court in any suit thus defended or of which it may have had notice and opportunity to defend as aforesaid.

STANDARD WARRANTY: Seller warrants that products of its own manufacture will be free from defects in workmanship and materials under normal use and service for the period specified in the product instruction manual. Warranty for service parts will be ninety (90) days from date of factory shipment. Electric Motors, gasoline and diesel engines, electrical apparatus and all other accessories, components and parts not manufactured by Seller are warranted only to the extent of the original manufacturer's warranty.

Notice of the alleged defect must be given to the Seller, in writing with all identifying details including serial number, type of equipment and date of purchase within thirty (30) days of the discovery of the same during the warranty period.

Seller's sole obligation on this warranty shall be, at its option, to repair or replace or refund the purchase price of any product or part thereof which proves to be defective. If requested by Seller, such product or part thereof must be promptly returned to seller, freight prepaid, for inspection.

Seller warrants repaired or replaced parts of its own manufacture against defects in materials and workmanship under normal use and service for ninety (90) days or for the remainder of the warranty on the product being repaired.

This warranty shall not apply and Seller shall not be responsible or liable for:

- (a) Consequential, collateral or special losses or damages;
- (b) Equipment conditions caused by fair wear and tear, abnormal conditions of use, accident, neglect or misuse of equipment, improper storage or damage resulting during shipping;
- (c) Deviation from operating instructions, specifications or other special terms of sale;
- (d) Labor charges, loss or damage resulting from improper operation, maintenance or repairs made by person(s) other than Seller or Seller's authorized service station.

In no event shall Seller be liable for any claims whether arising from breach of contract or warranty or claims of negligence or negligent manufacture in excess of the purchase price.

THIS WARRANTY IS THE SOLE WARRANTY OF SELLERS AND ANY OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED IN LAW OR IMPLIED IN FACT, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE ARE HEREBY SPECIFICALLY EXCLUDED.

LIABILITY LIMITATIONS: Under no circumstances shall the Seller have any liability for liquidated damages or for collateral, consequential or special damages or for loss of profits, or for actual losses or for loss of production or progress of construction, whether resulting from delays in delivery or performance, breach of warranty, negligent manufacture or otherwise.

ENVIRONMENTAL AND OSHA REQUIREMENTS: At the time of shipment of the equipment from the factory, Quincy Compressor / Ortman Fluid Power will comply with the various Federal, State and local laws and regulations concerning occupational health and safety and pollution. However, in the installation and operation of the equipment and other matters over which the seller has no control, the Seller assumes no responsibility for compliance with those laws and regulations, whether by the way of indemnity, warranty or otherwise.

STANDARD TERMS AND CONDITIONS

QUINCY COMPRESSOR

LEGAL EFFECT: Except as expressly otherwise agreed to in writing by an authorized representative of Seller, the following terms and conditions shall apply to and form a part of this order and any additional and/or different terms of Buyer's purchase order or other form of acceptance are rejected in advance and shall not become a part of this order.

The rights of Buyer hereunder shall be neither assignable nor transferable except with the written consent of Seller.

This order may not be canceled or altered except with the written consent of Seller and upon terms which will indemnify Seller against all loss occasioned thereby. All additional costs incurred by Seller due to changes in design or specifications, modification of this order or revision of product must be paid for by Buyer.

In addition to the rights and remedies conferred upon Seller by this order, Seller shall have all rights and remedies conferred at law and in equity and shall not be required to proceed with the performance of this order if Buyer is in default in the performance of such order or of any other contract or order with seller.

TERMS OF PAYMENT: Unless otherwise specified in the order acknowledgment, the terms of payment shall be net cash within thirty (30) days after shipment. These terms shall apply to partial as well as complete shipments. If any proceeding be initiated by or against Buyer under any bankruptcy or insolvency law, or in the judgment of Seller the financial condition of Buyer, at the time the equipment is ready for shipment, does not justify the terms of payment specified, Seller reserves the right to require full payment in cash prior to making shipment. If such payment is not received within fifteen (15) days after notification of readiness for shipment, Seller may cancel the order as to any unshipped item and require payment of its reasonable cancellation charges.

If Buyer delays shipment, payments based on date of shipment shall become due as of the date when ready for shipment. If Buyer delays completion of manufacture, Seller may elect to require payment according to percentage of completion. Equipment held for Buyer shall be at Buyer's risk and storage charges may be applied at the discretion of Seller.

Accounts past due shall bear interest at the highest rate lawful to contract for but if there is no limit set by law, such interest shall be eighteen percent (18%). Buyer shall pay all cost and expenses, including reasonable attorney's fees, incurred in collecting the same, and no claim, except claims within Seller's warranty of material or workmanship, as stated below, will be recognized unless delivered in writing to Seller within thirty (30) days after date of shipment.

TAXES: All prices exclude present and future sales, use, occupation, license, excise, and other taxes in respect of manufacture, sales or delivery, all of which shall be paid by Buyer unless included in the purchase price at the proper rate or a proper exemption certificate is furnished.

ACCEPTANCE: All offers to purchase, quotations and contracts of sales are subject to final acceptance by an authorized representative at Seller's plant.

DELIVERY: Except as otherwise specified in this quotation, delivery will be F. O. B. point of shipment. In the absence of exact shipping instruction, Seller will use its discretion regarding best means of insured shipment. No liability will be accepted by Seller for so doing. All transportation charges are at Buyer's expense. Time of delivery is an estimate only and is based upon the receipt of all information and necessary approvals. The shipping schedule shall not be construed to limit seller in making commitments for materials or in fabricating articles under this order in accordance with Seller's normal and reasonable production schedules.

Seller shall in no event be liable for delays caused by fires, acts of God, strikes, labor difficulties, acts of governmental or military authorities, delays in transportation or procuring materials, or causes of any kind beyond Seller's control. No provision for liquidated damages for any cause shall apply under this order. Buyer shall accept delivery within thirty (30) days after receipt of notification of readiness for shipment. Claims for shortages will be deemed to have been waived if not made in writing within ten (10) days after the receipt of the material in respect of which any such shortage is claimed. Seller is not responsible for loss or damage in transit after having received "In Good Order" receipt from the carrier. All claims for loss or damage in transit should be made to the carrier.



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