



QT Series Model QT-54

Parts Manual

This manual contains important safety information and must be carefully read in its entirety and understood prior to installation by all personnel who install, operate and/or maintain this product.

On-line product registration, parts ordering and warranty information is available at [www. quincycompressor.com](http://www.quincycompressor.com)

Manual No. 2022208500
August 2016 Edition

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INTRODUCTION

This manual provides information for the Model QT-54 reciprocating compressor.

The Model QT-54 is an aircooled, two stage, four cylinder, splash lubricated compressor, with up to 175 PSI continuous pressure capability. It has a 2.75" low pressure bore, a 2" high pressure bore and a 2" stroke. This compressor can be run at 550-1420 RPM.

CHANGES

since previous printing dated Nov 2014

- 1) Information regarding engines, unloaders, and pilot valves have been removed, since these options are no longer offered on the QT-54 machine.
- 2) Dimensional, assembly, and parts list for new QT-54 design have been added on page 13,14 & 15

SERIAL NUMBER IDENTIFICATION

The unit serial number identification tag is located on the air tank top plate. The basic compressor serial number decal is located on the basic compressor, opposite the flywheel side. *Fill in the numbers from your compressor unit and basic compressor in the corresponding spaces provided here, and reference this page when ordering replacement parts.*

Unit Serial Number

Basic Serial Number

All replacement parts are to be ordered through an authorized Quincy distributor. Insist on genuine Quincy Compressor parts only! Failure to do so may void warranty.

ORDERING REPLACEMENT PARTS

Prompt service can be rendered on repair parts orders if the following information is given:

- Item 1)** the model number, date of manufacturing & serial number.
- Item 2)** the exact part number needed. (Do not order by item numbers.)
- Item 3)** the exact quantity needed.
- Item 4)** the preferred type of transportation.

QUIN-CIP LUBRICANT

Refer to the chart below to order Quin-Cip-D or Quin-Cip compressor lubricant from your local authorized Quincy distributor.

Quin-Cip-D Lubricant (synthetic)	
SAE 30 (ISO 100)	
Quart	115468Q
Case (12 Qts)	115438C
Quin-Cip Lubricant	
SAE 10W (ISO 32)	
Quart	112541Q032
Case (12 Qts)	112541C032
SAE 20 (ISO 68)	
Quart	112542Q068
Case (12 Qts)	112542C068
SAE 30 (ISO 100)	
Quart	112543Q100
Case (12 Qts)	112543C100
SAE 40 (ISO 150)	
Quart	20246D1401
Case (12 Qts)	20246D1405

CAUTION !

Refer to the QT & QTS Series instruction manual for vital lubrication information.

CAUTION !

Follow all safety precautions outlined in the QT & QTS Series instruction manual.

WARNING !

Do not operate this compressor without a totally enclosed belt guard or any other required safety equipment.

DANGER !

Air used for breathing or food processing must meet OSHA 1910.134 or FDA 21 CFR 178.3570 regulations. Failure to do so may cause severe injury or death.

CRANKCASE LUBRICANT CAPACITY

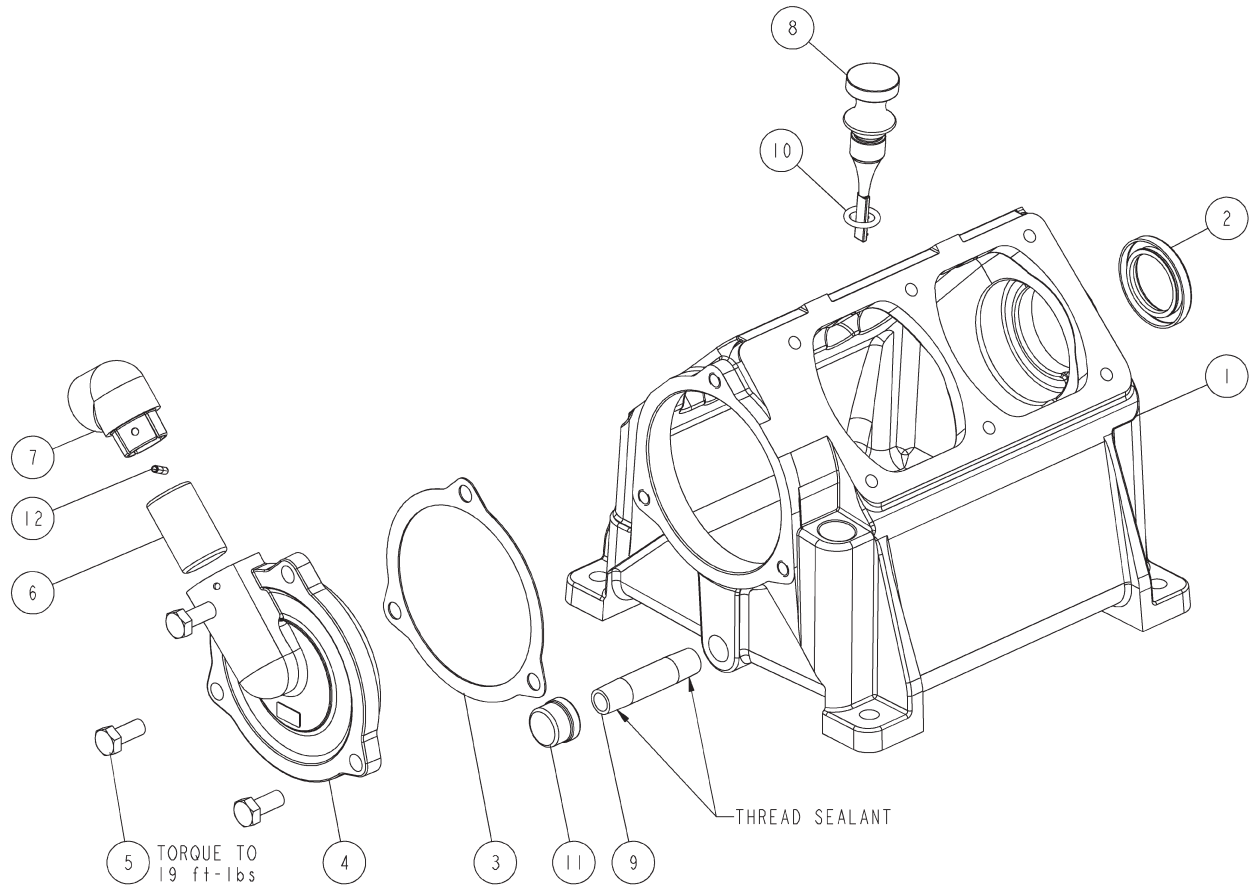
Model	Capacity
QT-54	1 qt. & 8 oz. (1.18 lit.)

Recommended Spare Parts			
Item #	Qty.	Part Number	Description
	1	112845-11	air filter element
	1	114097-003	gasket set
	2	114096-003	replacement valve assembly

Gasket Set 114097-003			
Item #	Qty.	Part Number	Description
	1	114201	gasket, valve plate to head
	1	112793	gasket, cylinder to valve plate
	1	112591	gasket, crankcase to cylinder
	1	114918	gasket, bearing carrier
	1	115058-001	oil seal
	1	22749-112	o-ring

Overhaul Kit KQT54A			
Item #	Qty.	Part Number	Description
	2	113046	piston ring set, LP
	2	115110	piston ring set, HP
	1	114097-003	gasket set
	2	112588X	valve plate assembly
	1	112845-11	air filter element
	2	110190-025	piston pin
	2	115078	piston pin
	1	110095-002	crankcase breather
	1	112583	connecting rod assembly, LP
	1	112583-001	connecting rod assembly, LP
	1	112583-002	connecting rod assembly, HP
	1	112583-003	connecting rod assembly, HP
	4	111105-002	piston pin plug, .62 dia

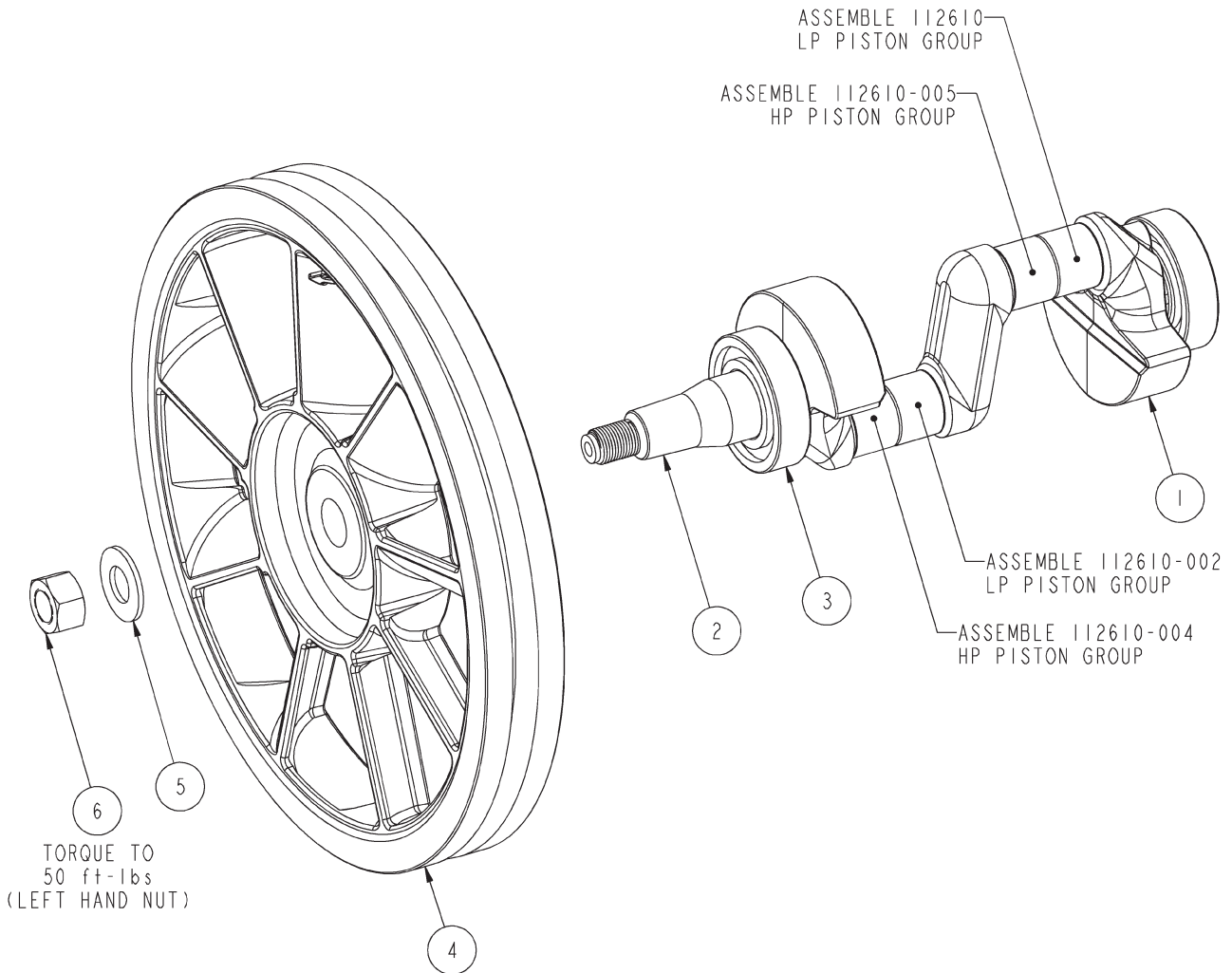
114940 CRANKCASE GROUP



ITEM	PART NUMBER	QTY	DESCRIPTION
1	114871	1	CRANKCASE
2	115058-001	1	VITON OIL SEAL
3	114918	1	GASKET
4	114872	1	BEARING CARRIER
5	115037-K10	3	SCREW, CAP HEX, SEALANT, GRADE 5
6	111333-002	1	FILTER
7	111349-001	1	BREATHER ELBOW
8	110070-9	1	DIPSTICK
9	125933-013	1	PIPE NIPPLE, 1/4 NPT X 2.38
10	22749-112	1	O-RING, VITON
11	4693	1	PIPE CAP
12	115808-F14	1	SPRING PIN

114941 CRANKSHAFT GROUP

(electric motor models)

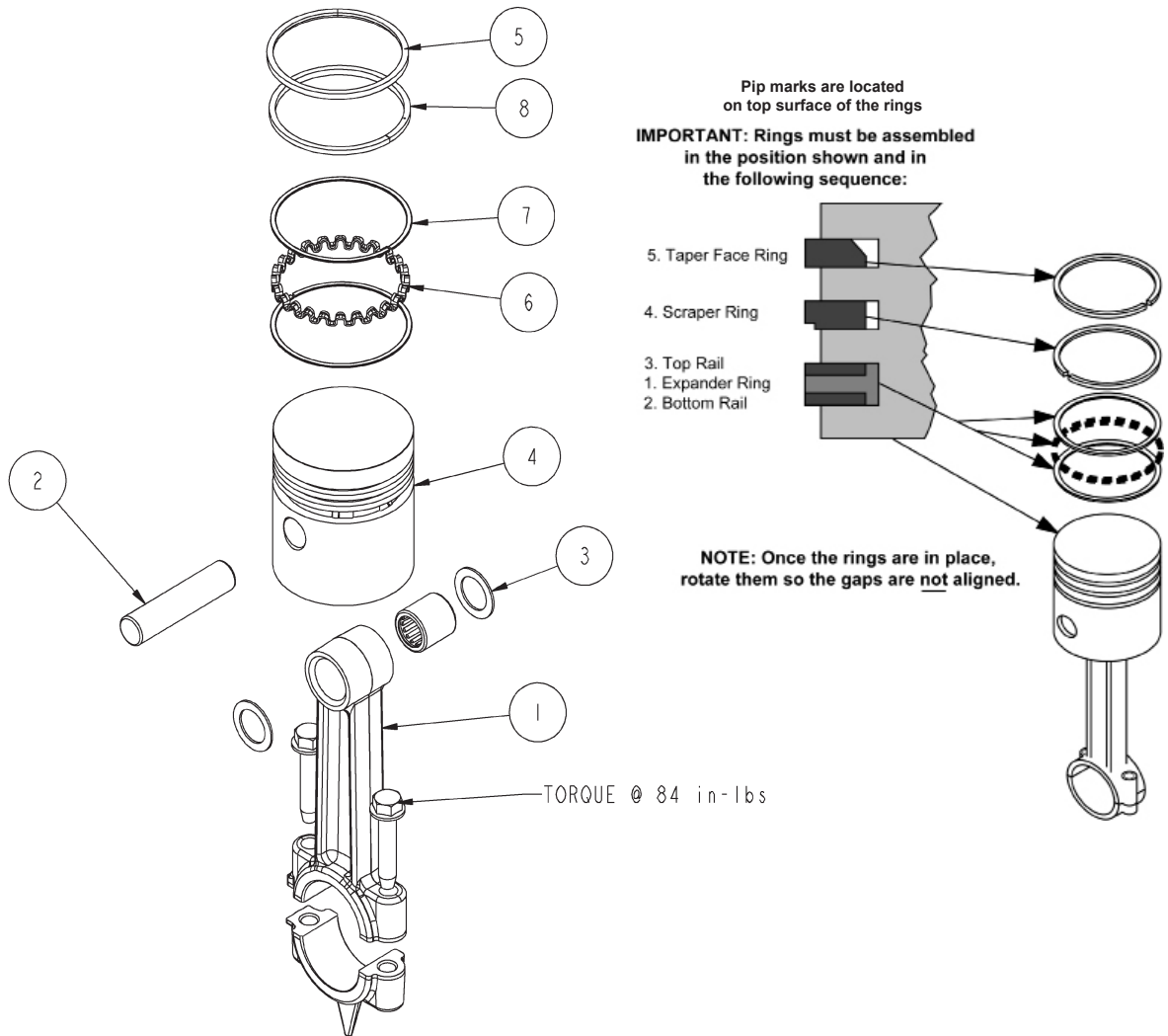


CRANKSHAFT GROUP 114941 BILL OF MATERIALS			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	114873X005	1	CRANKSHAFT ASSEMBLY
2	114873-005	1	CRANKSHAFT
3	111107	2	BALL BEARING
4	114211	1	SHEAVE
5	110428N062	1	FLAT WASHER, 5/8
6	112607	1	HEX. NUT

CONNECTING ROD & PISTON GROUP 112610-004

high pressure / left bank / front*

*sheave side is considered front

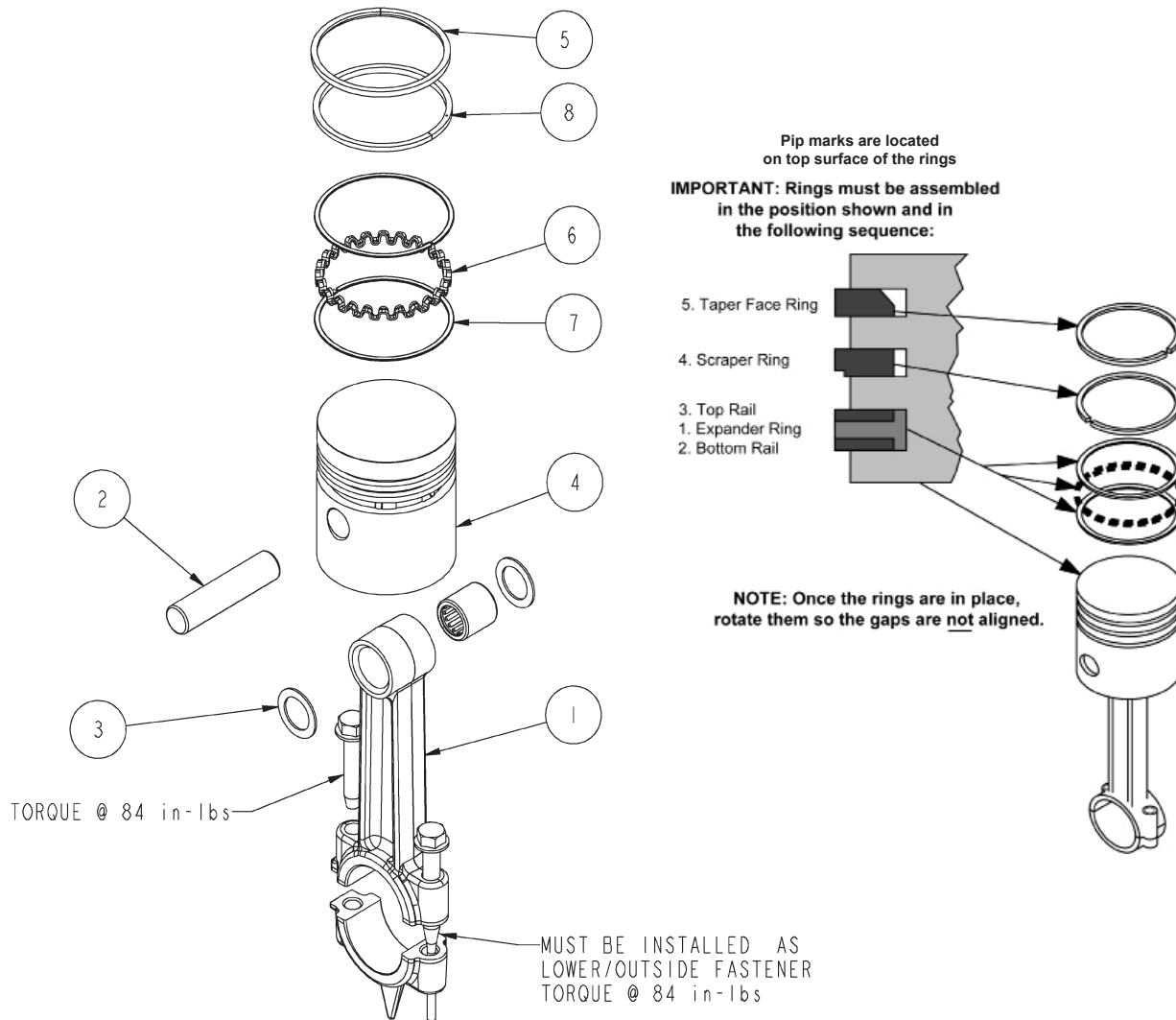


PISTON/CONROD AY 112610-004 BILL OF MATERIALS			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	112583-002	1	AY, CON/ROD
2	115078	1	PISTON PIN
3	112597-001	2	NYLON WASHER
4	114996	1	PISTON
5	115072	1	PISTON RING
6	115080	1	OIL RING SPACER
7	115079	2	OIL RING RAIL
8	115073	1	SCRAPER RING
MAINTENANCE PARTS (ORDER QTY PER PISTON)			
	115110	1	REPLACEMENT RING SET (INCLUDES ITEM 5 6, 7 & 8)
	115077	1	REPLACEMENT PISTON PIN BEARING
	112583K002	1	REPLACEMENT CON/ROD (ITEM 1)

CONNECTING ROD & PISTON GROUP 112610-005

high pressure / left bank / rear*

*sheave side is considered front

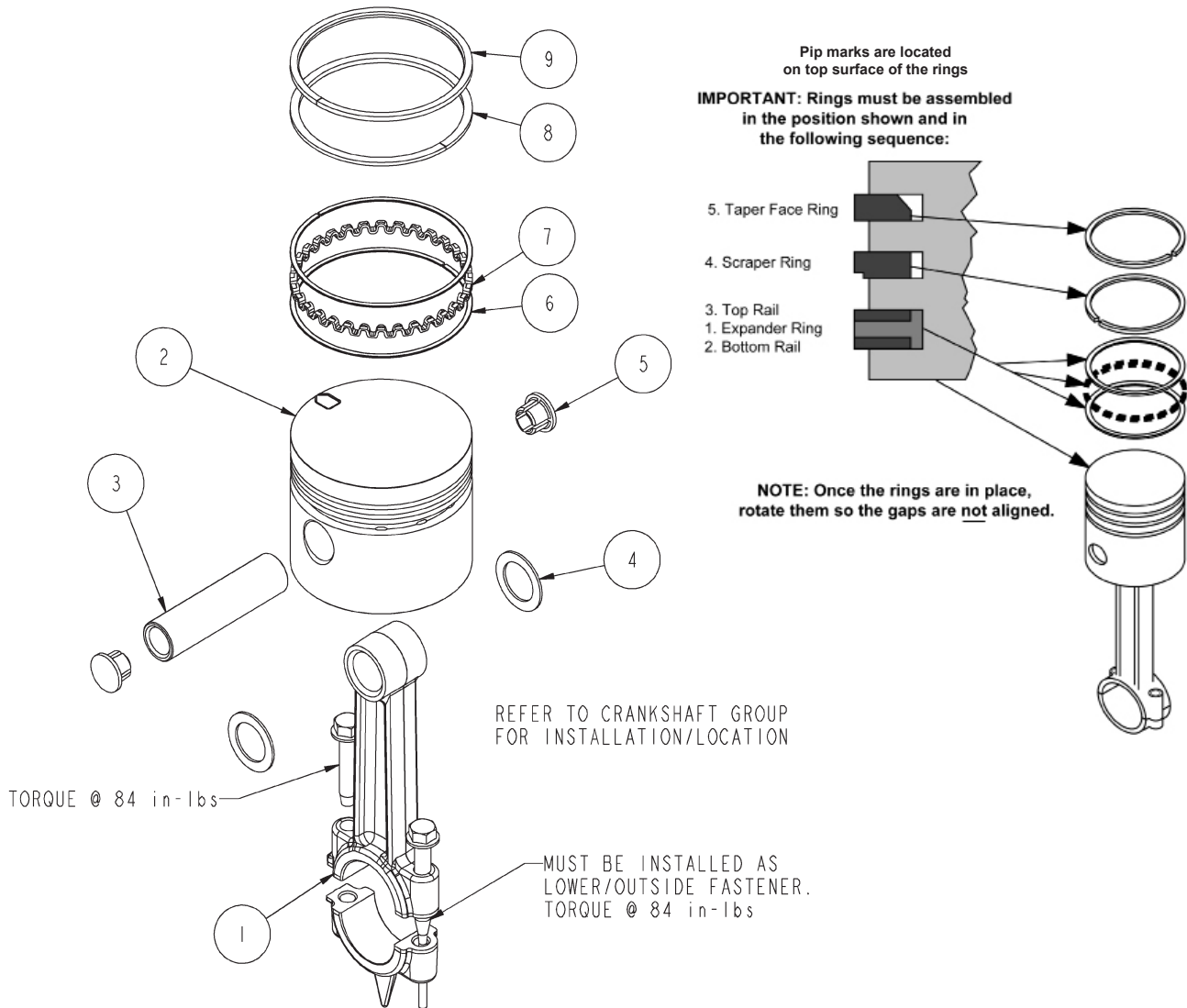


PISTON/CONROD AY 112610-005 BILL OF MATERIALS			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	112583-003	1	AY, CON/ROD
2	115078	1	PISTON PIN
3	112597-001	2	NYLON WASHER
4	114996	1	PISTON
5	115072	1	PISTON RING
6	115080	1	OIL RING SPACER
7	115079	2	OIL RING RAIL
8	115073	1	SCRAPER RING
MAINTENANCE PARTS (ORDER QTY PER PISTON)			
115110	1	REPLACEMENT RING SET (INCLUDES ITEM 5, 6, 7 & 8)	
115077	1	REPLACEMENT PISTON PIN BEARING	
112583K003	1	REPLACEMENT CON/ROD (ITEM 1)	

CONNECTING ROD & PISTON GROUP 112610-002

low pressure / right bank / front*

*sheave side is considered front

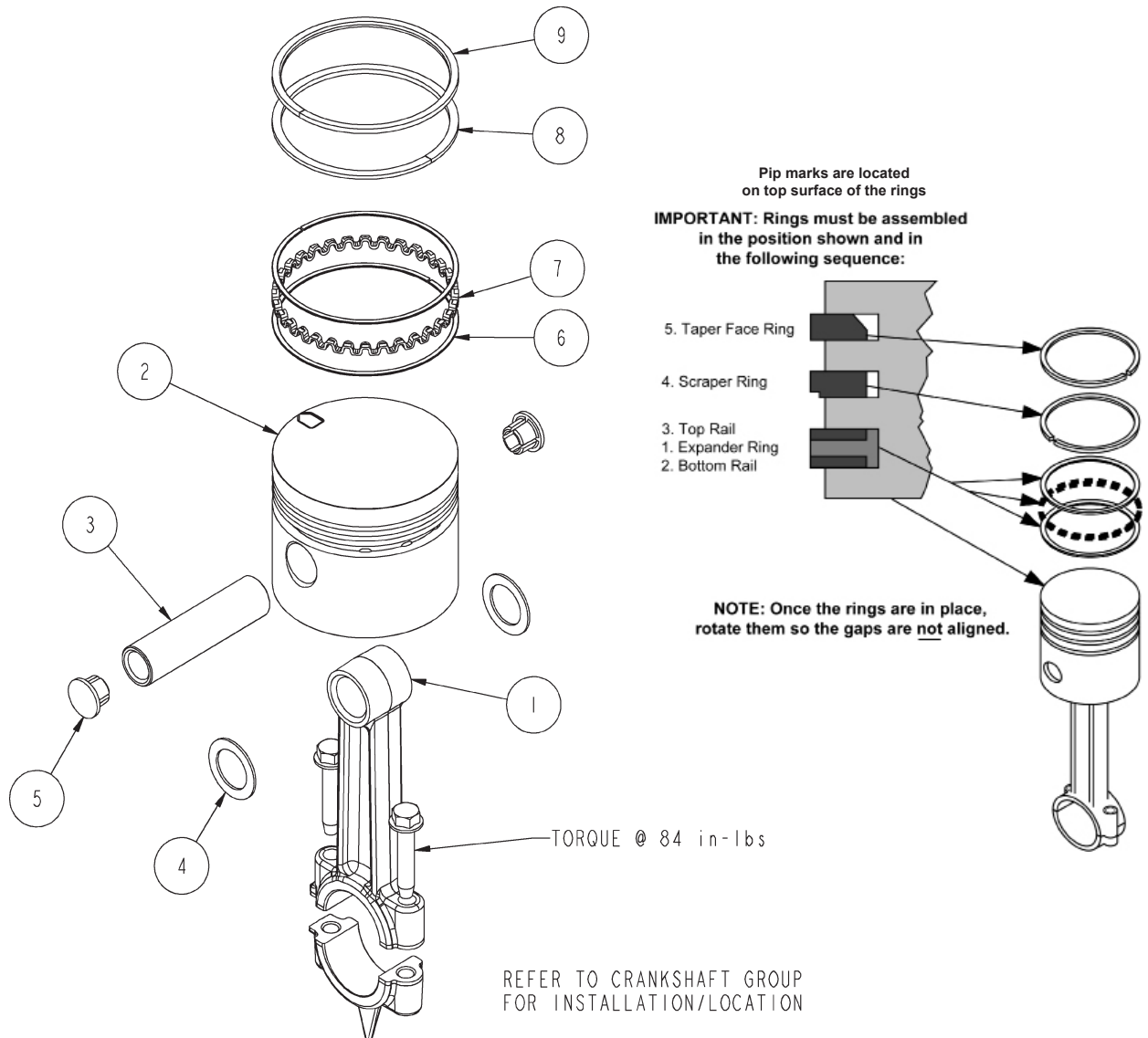


PISTON/CONROD AY 112610-002 BILL OF MATERIALS			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	112583-001	1	AY, CON/ROD
2	112582	1	PISTON
3	110190-025	1	PISTON PIN
4	112597	2	NYLON WASHER
5	111105-002	2	PISTON PIN PLUG
6	112650	2	OIL RING RAIL
7	112651	1	OIL RING SPACER
8	112601	1	PISTON RING SCRAPER
9	112600	1	PISTON RING
MAINTENANCE PARTS (ORDER QTY PER PISTON)			
	113046	1	REPLACEMENT RING SET (INCLUDES ITEMS 6, 7, 8 & 9)
	112583K001	1	REPLACEMENT CON/ROD (TEM 1)

CONNECTING ROD & PISTON GROUP 112610

low pressure / right bank / rear*

*sheave side is considered front

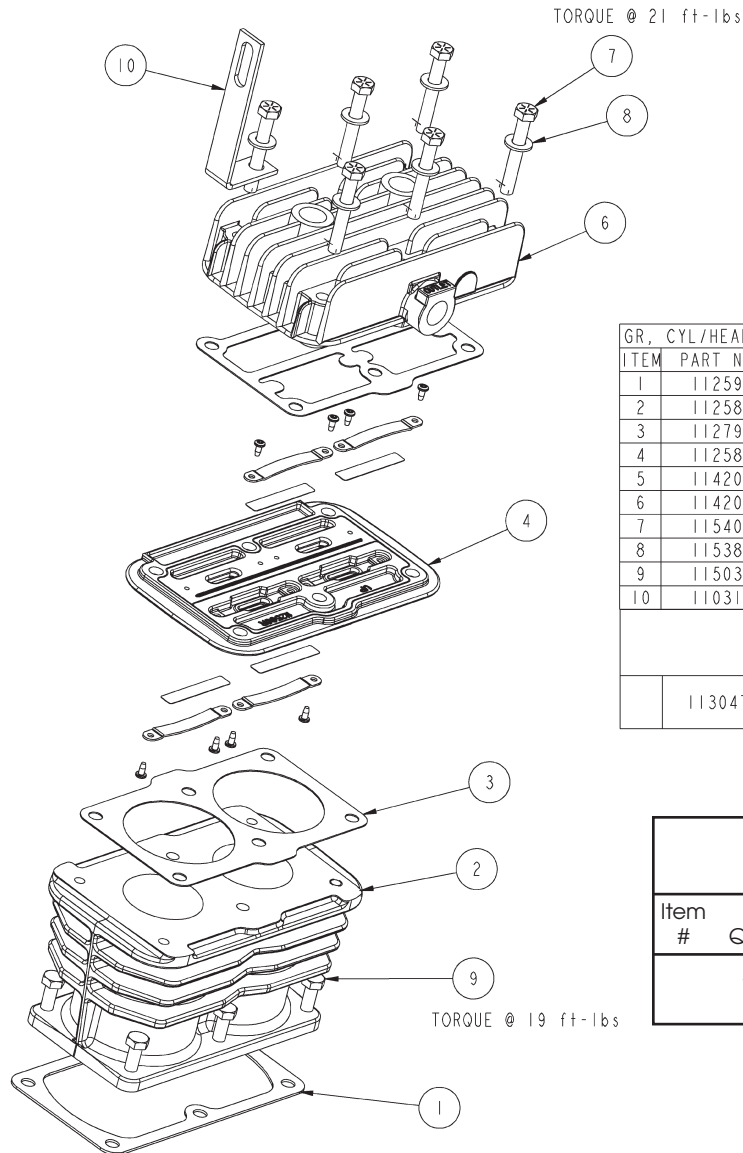


PISTON/CONROD AY 112610 BILL OF MATERIALS			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	112583	1	AY, CON/ROD
2	112582	1	PISTON
3	110190-025	1	PISTON PIN
4	112597	2	NYLON WASHER
5	111105-002	2	PISTON PIN PLUG
6	112650	2	OIL RING RAIL
7	112651	1	OIL RING SPACER
8	112601	1	PISTON RING SCRAPER
9	112600	1	PISTON RING
MAINTENANCE PARTS (ORDER QTY PER PISTON)			
	113046	1	REPLACEMENT RING SET (INCLUDES ITEMS 6, 7, 8 & 9)
	112583K	1	REPLACEMENT CON/ROD (ITEM 1)

CYLINDER & HEAD GROUP 112640-012

plain / high pressure / left bank*

*sheave side is considered front



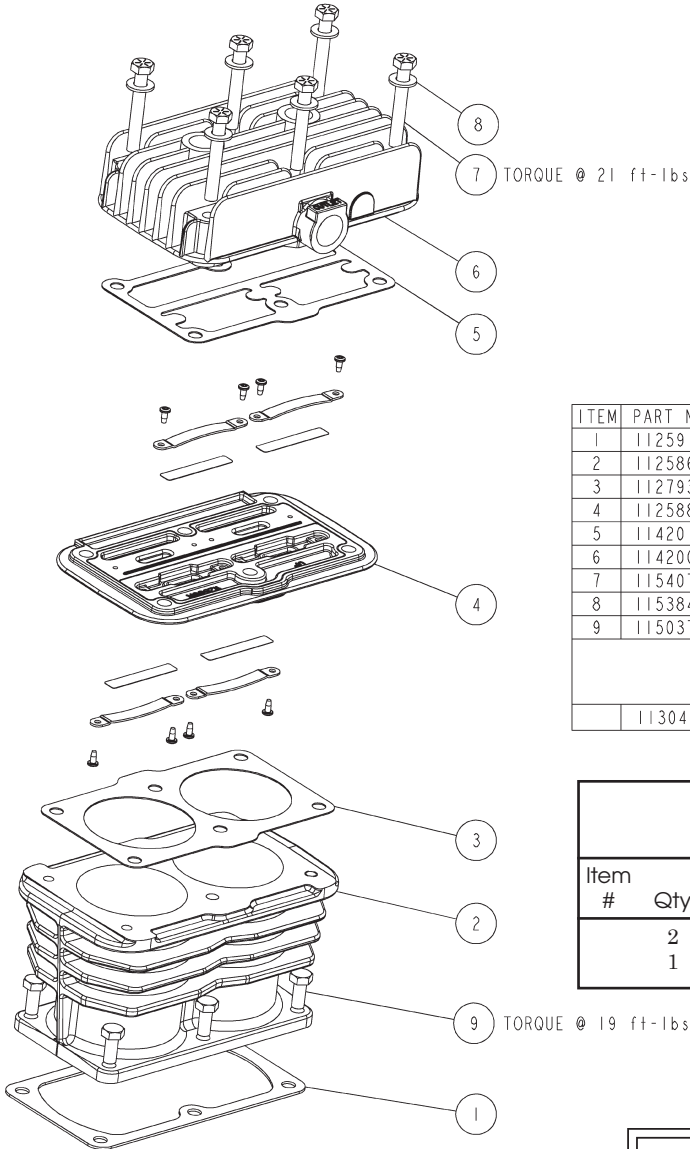
GR, CYL/HEAD (PLAIN) 112640-012 BILL OF MATERIALS			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	112591	1	GASKET
2	112586-001	1	CYLINDER, AIRCOOLED (2.00 DIA)
3	112793	1	GASKET, CYL/VALVE PLATE
4	112588X	1	VALVE PLATE ASSEMBLY
5	114201-001	1	HEAD GASKET
6	114200R	1	HEAD
7	115407-K18	6	HEX, SCREW GRADE 8
8	115384N031	6	WASHER
9	115037-K10	6	SCREW, CAP HEX, SEALANT, GRADE 5
10	110312-004	1	BRACKET, GUARD
MAINTENANCE PARTS (ORDER QTY PER BANK)			
	113047-001	1	VALVE REPAIR KIT (INCLUDES ITEM 3, 4 & 5)

Head Kit KQT54B			
Item #	Qty.	Part Number	Description
	2	113047-001	Replacement Valve Assembly
	1	112845-11	Air Filter Element (polyester)

CYLINDER & HEAD GROUP 112640-011

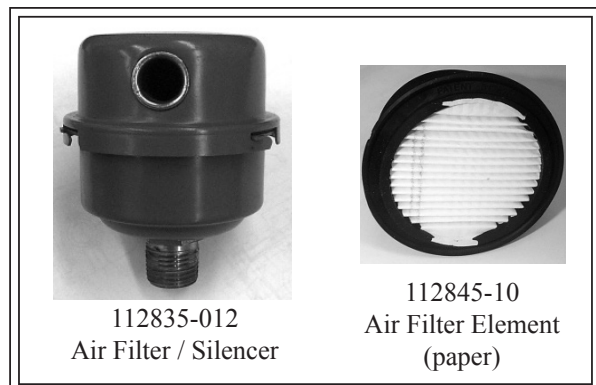
plain / low pressure / right bank (electric motor models)

*sheave side is considered front



ITEM	PART NUMBER	QTY	DESCRIPTION
1	112591	1	GASKET
2	112586	1	CYLINDER, AIRCOOLED (2.75 DIA)
3	112793	1	GASKET, CYL/VALVE PLATE
4	112588X	1	VALVE PLATE ASSEMBLY
5	114201-001	1	HEAD GASKET
6	114200-002	1	HEAD
7	115407-K18	6	HEX, SCREW GRADE 8
8	115384N031	6	WASHER
9	115037-K10	6	SCREW, CAP HEX, SEALANT, GRADE 5
MAINTENANCE PARTS (ORDER QTY PER BANK)			
	113047-001	1	VALVE REPAIR KIT (INCLUDES ITEMS 3,4,5)

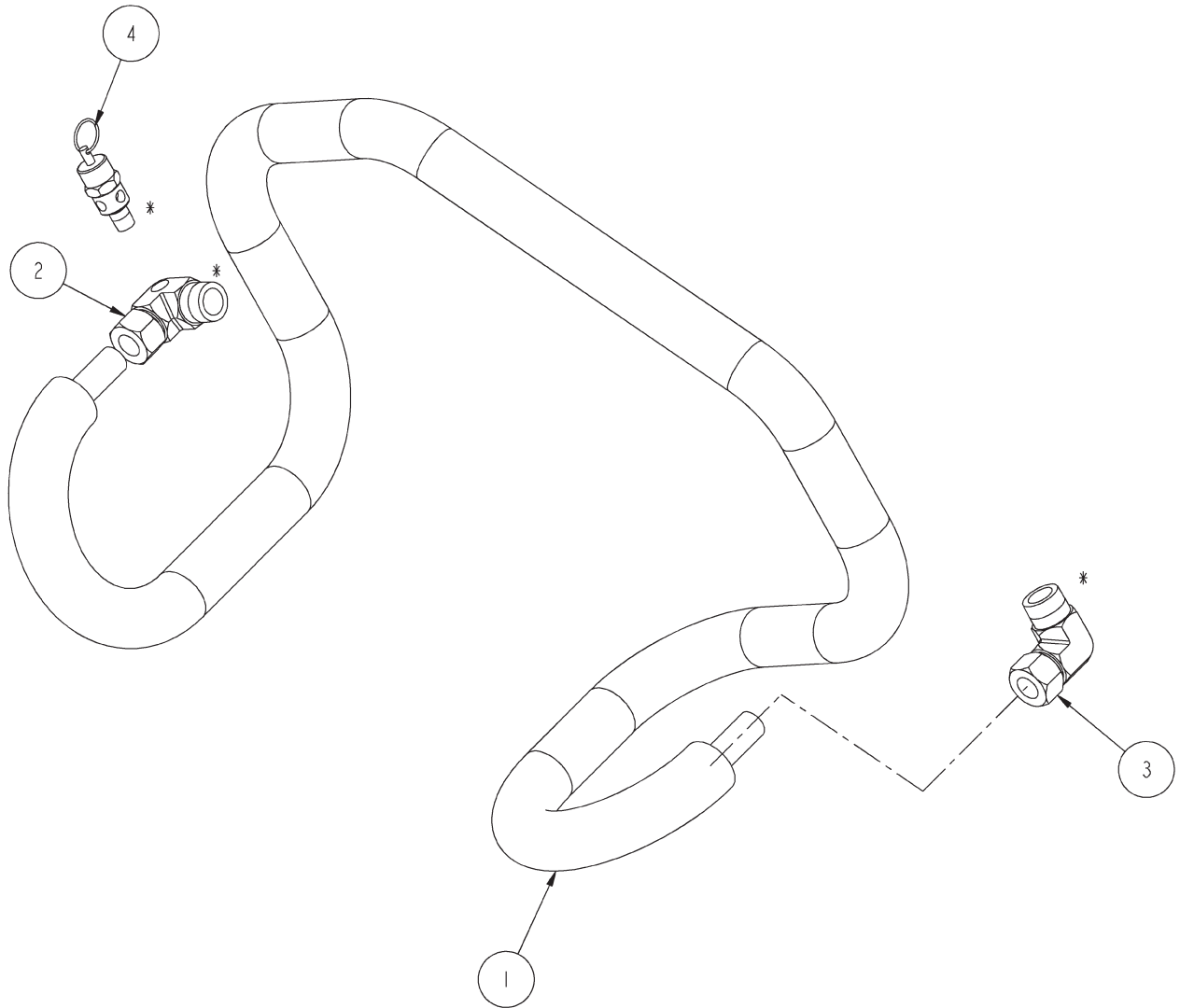
Head Kit KQT54B			
Item #	Qty.	Part Number	Description
2	1	113047-001	Replacement Valve Assembly
1	1	112845-11	Air Filter Element (polyester)



112835-012
Air Filter / Silencer

112845-10
Air Filter Element
(paper)

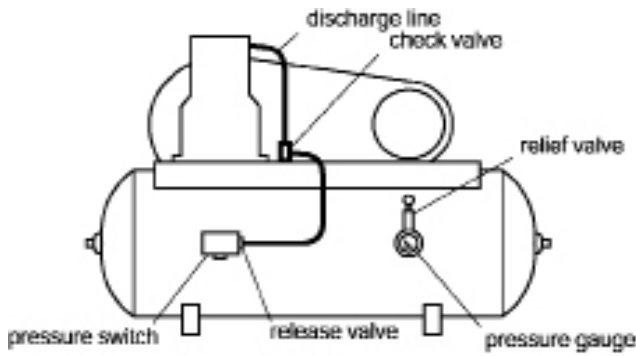
INTERCOOLER GROUP 115118



INTERCOOLER 115118 BILL OF MATERIALS			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	115085	1	INTERCOOLER
2	115329	1	ELBOW 062 STR X 050 NPT
3	7235	1	TUBE FITTING, 90 DEGREES MALE ELBOW
4	111089-100	1	PRESSURE RELIEF VALVE
MAINTENANCE PARTS			
	K115118	1	INTERCOOLER KIT (INCLUDES ALL ABOVE ITEMS)

* THREAD SEALANT

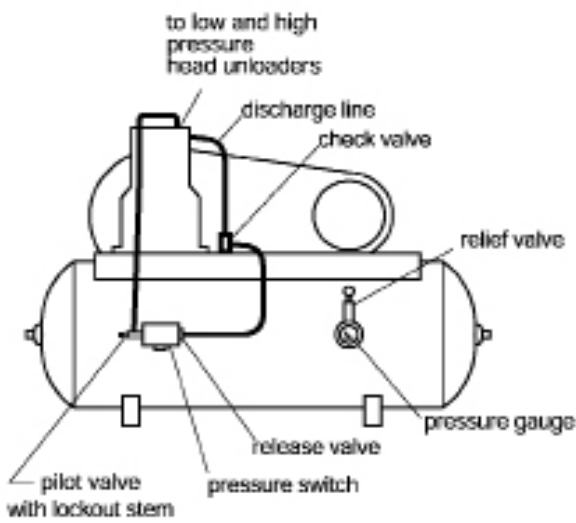
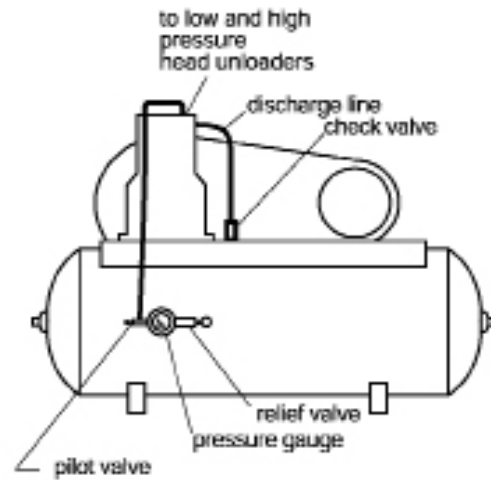
CONTROL PIPING SCHEMATIC



**Control Piping
For Automatic Start/Stop**

(with loadless starting)

**Control Piping
For Continuous Run**



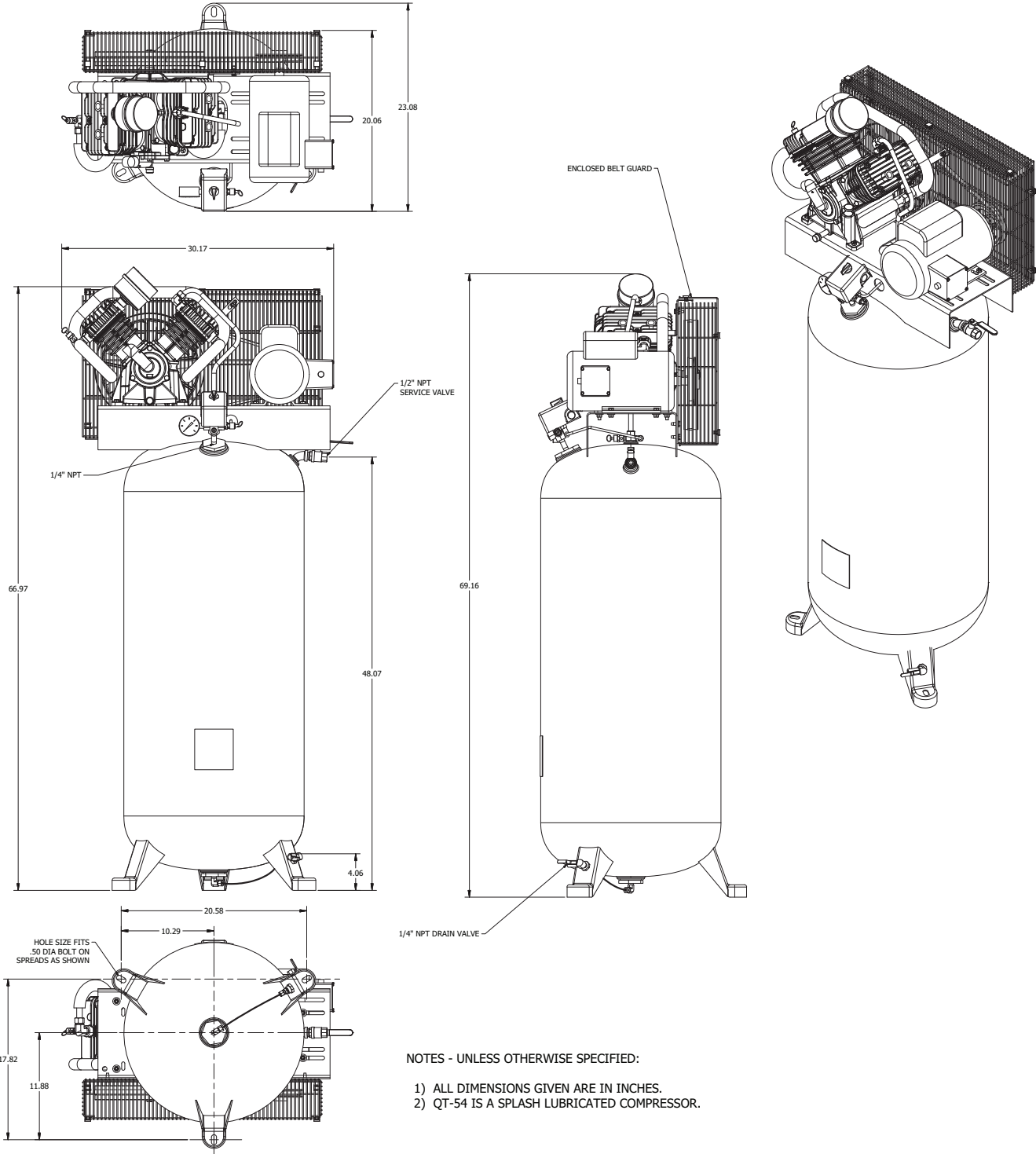
**Control Piping
For Dual Control**

*For Start / Stop operation
the pilot valve is open
(stem screwed out)*

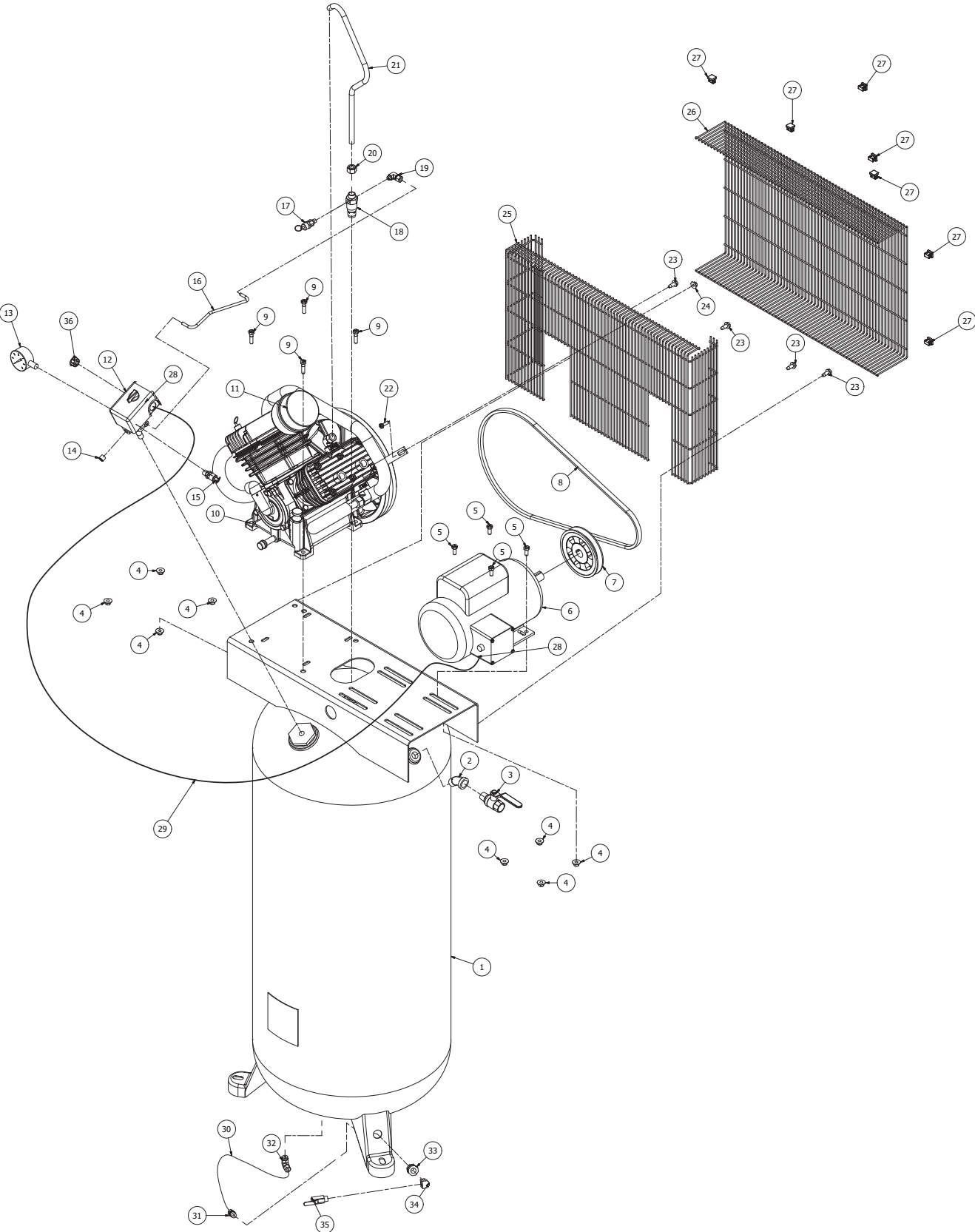
*For Continuous Run operation
the pilot valve is closed
(stem screwed in)*

PIX 1186.tif

QT-54 DIMENSIONAL



QT-54 ASSEMBLY



QT-54 ASSEMBLY

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	2023106743	RECEIVER,VW,60GL,200WP,20X48,STOCK
2	1	2010357145	FIT P,ELBOW,150GLVM050X050X45
3	1	2023913803	VALVE,QTRTURN,BALL,050P,600WP
4	8	2014706537	NUT,FLG,.31 NC,SAE 2,ZINC
5	4	0144324165	SCREW,CAP,CS,HEX,ZN.31NCX0.75
6	1	2023000811	MOTOR,5D,230V60H1P3600
7	1	2024215302	PULLEY-1G-B-4.9PULLEY
8	1	2024200316	BELT,A54,055.3PL,056.0-O.C.
9	4	0144324167	SCREW,CAP,CS,HEX,ZN.31NCX1.25
10	1	2020004902	QT-54,2-STAGE,PLAIN,SPLASH L
11	1	2023403410	FILTER,AIR,3/4NPT,POLY,20CFM
12	1	2023738400	SWITCH,PRS,135LB-175LB,ON-OFF
13	1	2025065900	GAUGE,0-300,1/4NPT,90DEG MOUNT
14	1	0686310137	FIT P,PLUG-,300GLV 025 HX SOCK
15	1	2023913015	VALVE,RELIEF,025P,200PSI,ANC
16	1	2023205914	PIP,CTRL,QT-54
17	1	2023913610	VALVE,RELIEF,012P,215PSI,NA
18	1	2023913311	VALVE,CHECK,SPRING,075P,400WP
19	1	0581120067	FIT T,ELBOW,COMP,025CTX012MPX9
20	1	2024903706	FIT T,NUT--,COMP,050NT,W/SLEEV
21	1	2023205902	PIP,DISCHARGE,QT-54
22	1	0144324161	SCREW,CAP,CS,HEX,ZN.25NCX0.88
23	4	0147310020	SCREW,TAP,CS,WASH,ZN.31NC0.75
24	1	2014700381	NUT,FLG,..25 NC,SAE 2,ZINC
25	1	2023346417	GUARD,BELT,WIRE,BACK
26	1	2023346418	GUARD,BELT,WIRE,FRONT
27	7	2024812400	FASTENER,BELT GUARD
28	2	2025500095	FIT C,LKNUT,RGD,NON,050
29	1	2023738401	AY,CABLE,STARTER,QT-54
30	0.75	2014705166	TUBE-FT,1/4 NYLON 11,BLACK
31	1	2014701945	FIT T,CONEC,FLLS,025NTX025MP
32	1	2014701663	FIT T,ELBOW,FLLS,025NTX025MPX9
33	1	2014701305	FIT P,CPLG,BRASS,025X025BLKHD
34	1	0560440202	FIT P,ELBOW,BRASS,M025X025X90
35	1	2023924300	VALVE,QTRTURN,BALL,025P,600WP
36	1	2014701382	FIT C,BLANK,NEMA1,.50,PLASTIC

QUINCY COMPRESSOR

STANDARD TERMS AND CONDITIONS

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 1% 15, net forty-five (45) 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 with 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.

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.

June 30, 2003



Reciprocating / Systems: 251.937.5900
E-mail: info@quincycompressor.com
Website: www.quincycompressor.com

