

# QP Series Model QP-15

Parts Manual

Record of Change 102

This manual contains important safety information and must 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 compressor.

Fill Out & Return Warranty Registration Card Located Inside

Manual No. 2022201600

December 2011 Edition

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### INTRODUCTION

This manual provides information for the Model QP-15 reciprocating compressor, per Record of Change 102.

The Model QP-15 is an aircooled, two stage, four cylinder, V-type, pressure lubricated compressor, with up to 175 PSI continuous pressure capability. It has a 4.5" low pressure bore and a 2.5" high pressure bore, with a 3.5" stroke. This compressor can be run at 600-1150 RPM.

Available options include:

-head unloaders

### **CHANGES**

since previous printing:

Initial printing.

## 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 side of the crankcase opposite the oil fill 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 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, record of change number, & 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.

## CRANKCASE LUBRICANT CAPACITY

Model	Capacity
QP-15	3 Qts. & 2 Oz.

### **QUIN-CIP LUBRICANT**

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

Quin-Cip-D							
Lubricant							
(synth	etic)						
SAE 30 (ISO 100)							
Quart	115468Q						
Case (12 Qts.)	115468C						
Quin-Cip Lubricant							
SAE 10W	(ISO 32)						
SAE 10W Quart	( <b>ISO 32</b> ) 112541Q032						
	112541Q032						
Quart	112541Q032 112541C032						
Quart Case (12 Qts.)	112541Q032 112541C032						
Quart Case (12 Qts.) SAE 20 (I	112541Q032 112541C032 SO 68)						
Quart Case (12 Qts.) SAE 20 (I	112541Q032 112541C032 <b>SO 68)</b> 112542Q068 112542C068						
Quart Case (12 Qts.) SAE 20 (I Quart Case (12 Qts.)	112541Q032 112541C032 <b>SO 68)</b> 112542Q068 112542C068						

#### **CAUTION!**

Refer to the QP Industrial / Air Master Series instruction manual for vital lubrication information.

#### **CAUTION!**

Follow all safety precautions outlined in the QP Industrial / Air Master Series instruction manual.

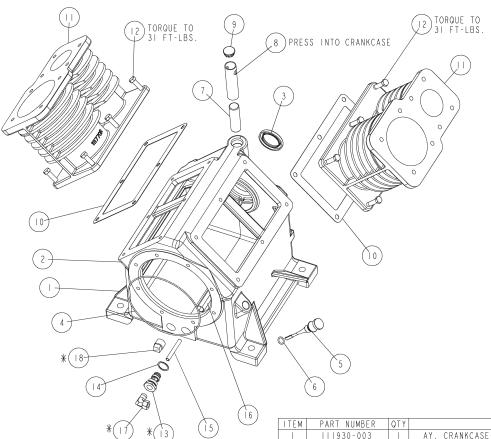
#### **WARNING!**

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 & CYLINDERS GROUP 111929-003



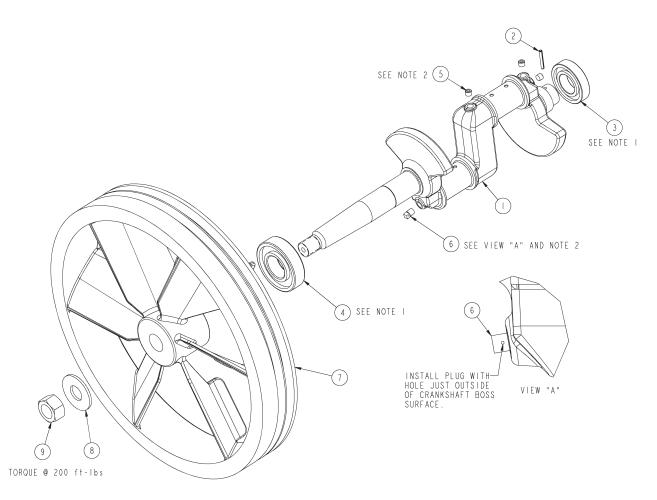
\* INSTALL WITH SLIC-TITE OR TEFLON TAPE.

ITEM	PART NUMBER	QTY	DESCRIPTION
1	111930-003		AY, CRANKCASE
2	111771-003		CRANKCASE
3	111781-001	- 1	OIL SEAL, VITON
4	22749-167	- 1	O-RING, VITON
5	110070-6	- 1	DIPSTICK
6	123157-112		O-RING
7	111333	1	FILTER
8	113947		BREATHER TUBE
9	40825		HOLE PLUG
10	111782	2	CYLINDER GASKET
11	111770	2	CYLINDER
12	115037-L14	12	SCREW, CAP HEX, SEALANT, GRADE 5
13	115443	- 1	OIL FILTER SCREW
4	3100	- 1	GASKET, OIL INLET FILTER
15	6576		OIL INLET TUBE
16	6518	1	SCREEN, OIL INLET FILTER
17	2614	1	TUBE FITTING, 90 DEGEES MALE ELBOW
18	2057	- 1	PIPE PLUG

	Gasket Set 112085										
Item		Part									
#	Qty.	Number	Description								
	1	111781-001	oil seal								
	2	111274-001	gasket, head to valve plate								
	2	111229-001	gasket, head to valve plate								
	2	111228-003	gasket, cylinder to valve plate								
	2	111228-004	gasket, cylinder to valve plate								
	1	22749-167	"o"ring, 3/32 wide x 7.19 o.d.								
	1	123157-112	"o"ring, 3/32 wide x .69 o.d.								
	2	111782	gasket, cylinder to crankcase								
	8	112708-908	"o"ring, silicone								

Sterling Blue Oil & Filters Kit 2022103600									
Item #	Qty.	Part Number	Description						
	2 1 4 qt.	110377E100 110814 115468Q	air filter element oil filter Quin-Cip-D synthetic lubricant						

## CRANKSHAFT GROUP 111933-001

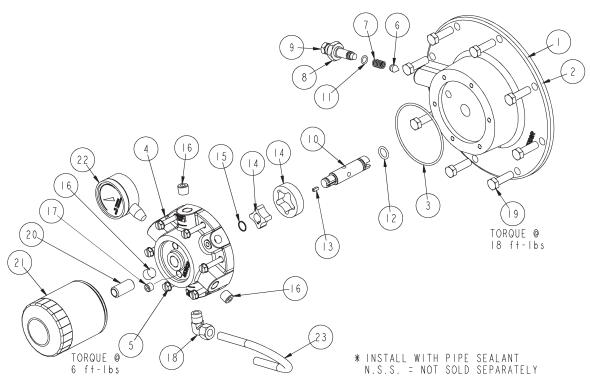


CRAN	NKSHAFT GROUP I	1193	33-001 BILL OF MATERIALS
ITEM	PART NUMBER	QTY	DESCRIPTION
- 1	111775-002	- 1	CRANKSHAFT
2	110705-F17		ROLL PIN, 3/16 X 1.38
3	111780		BALL BEARING
4	111779	- 1	BALL BEARING
5	27558	3	PIPE PLUG, I/8 NPT
6	116075	1	PIPE PLUG WITH HOLES
7	111776	- 1	SHEAVE, 19.50 O.D., 2 GROOVE, B SECT.CCW
8	110428W100		FLAT WASHER, I
9	112352		NUT, HEX I-I4UNF,L.H. THREAD

NOTES - UNLESS OTHERWISE SPECIFIED:

- I. APPLY LOCTITE  $^{\odot}$  272 TO OUTER DIAMETER OF BEARING WHEN ASSEMBLING INTO CRANKCASE.
- 2) INSTALL WITH SLIC-TITE® OR TEFLON® TAPE.

## BEARING CARRIER GROUP 110820-004

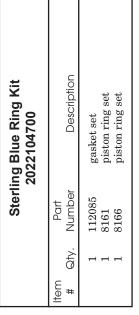


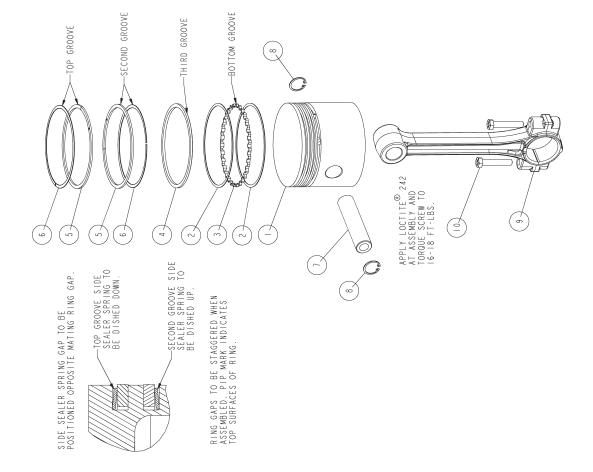
	ITEM	PART NUMBER	QTY	DESCRIPTION
	-	115109-003	1	BEARING CARRIER ASSEMBLY (N.S.S ORDER 115109X001)
	2	115109-001		BEARING CARRIER (N.S.S ORDER 115109X001)
	3	22749-152		O-RING, VITON
	4	110813-001		OIL PUMP HOUSING
	5	123777-J12	6	MACHINE SCREW
	6	112857		NEEDLE VALVE
	7	1160		SPRING
	8	124369-P02		JAM NUT
L	9	5489	- 1	ADJUSTMENT SCREW
	10	160002-002	- 1	DRIVE SHAFT
		22749-011		O-RING, VITON
	12	22749-112	- 1	O-RING, VITON
	13	160075-001	- 1	KEY
	14	160003	- 1	OIL PUMP
L	15	6285		RETAINING RING
*	16	2719	3	PIPE PLUG, I/4 NPT
. L	17	2755\$		PIPE PLUG, I/8 NPT
*	18	2614		TUBE FITTING, 90 DEGEES MALE ELBOW
L	19	115037-L14	8	SCREW, CAP HEX, SEALANT, GRADE 5
L	20	110825		STUD, FILTER
.  -	21	110814		FILTER, OIL
*	22	110822		OIL PRESSURE GAUGE
L	23	110515-038		3/8" O.D. COPPER TUBE X IFT (TO BE FORMED BY CUSTOMER)
				MAINTENANCE PARTS
		08   4 - 00	1	OIL FILTER (6 PACK)
		160078	1	OIL PUMP REPAIR KIT (INCLUDES I EACH OF ITEMS 3, 10, 11, 12, 13,14, AND 15)
		5  09X  00		REPLACEMENT BEARING CARRIER AY (INCLUDES I EACH OF ITEMS 1, 20, 21, AND 22749-167 O-RING)

## CONNECTING ROD & PISTON GROUP 111925-004

(low pressure)

DESCRIPTION	PISTON, LP	OIL RING RAIL	OIL RING EXPANDER	PISTON RING	PISTON RING	SPRING, SIDE SEALER	PISTON PIN	RETAINING RING	AY,CONROD, LP	SCREW, ZINC, GRADE 8	MAINTENANCE PARTS	PISTON RING SET	PISTON ASSEMBLY, LP INCLUDES PISTON, RING SET, PISTON PIN, AND RETAINING RINGS.
QTY	-	2	_	-	2	2	_	7	_	2		_	_
PART NUMBER	8643	112781	112780	7351	7010	7012	8646	8648	111927-005	115388-K16		8166	115814X
ITEM	-	2	m	4	2	9	7	00	6	0			

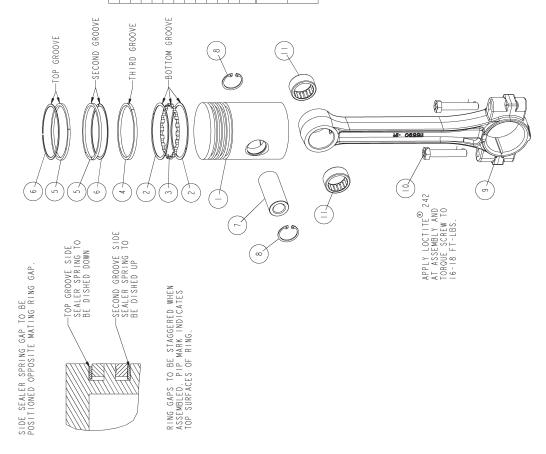




## CONNECTING ROD & PISTON GROUP 111926-004

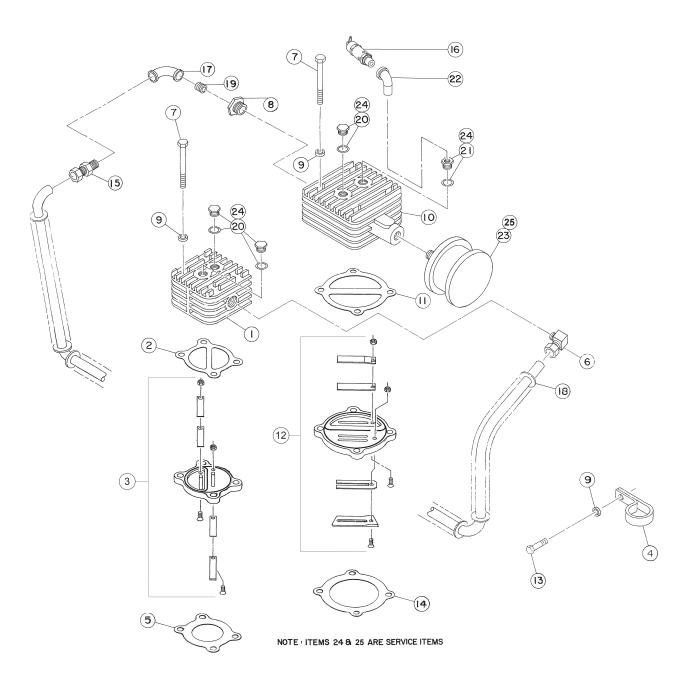
(high pressure)

DESCRIPTION	PISTON	OIL RING RAIL	OIL RING EXPANDER	PISTON RING	RING, PISTON	SPRING, SIDE SEALER	PISTON PIN (N.S.S, ORDER REPLACEMENT PIN ASSEMBLY)	RETAINING RING	AY, CONROD, H.P.	SCREW, ZINC, GRADE 8	NEEDLE BEARING	MAINTENANCE PARTS	PISTON RING SET	PISTON ASSEMBLY, HP (STANDARD SIZE) INCLUDES PISTON, RING SET, PISTON PIN, AND RETAINING RINGS.
ΟTΥ	_	2	_	_	2	2	_	2	_	2	2		_	_
PART NUMBER (	1530-001	111281	111280	1652	6536	6538	110190-021	8648	111927-004	115388-K16	112018		8161	115815X
ITEM	_	2	e	4	2	9	7	80	6	0_	=			



## **HEAD GROUP 111935-1**

(\*right bank / less head unloaders)



Sterling Blue Valve Kit 2022104000										
Item #	Qty.	Part Number	Description							
	2 2 2	110258B097 112714 112713M15	drive belt valve repair kit valve repair kit							

## **HEAD GROUP 111935-1**

(\*right bank / less head unloaders)

Item		Part			
Number	Qty.	Number	Description		
1	1	111115-5	cylinder head, high pressure		
2	1	111274-001	gasket, head to valve plate		
3	1	111227X2	valve plate assembly, high pressure		
4	1	112225-2	tube clamp		
5	1	111228-004	gasket, cylinder to valve plate		
† 6	1	110919-024	tube fitting, 90° male elbow, 3/4 tube x 3/4 npt		
7	8	123478-L25	hex. screw, 3/8-16 unc x 4.00, grade 5 (@ 30 ftlbs.)		
† 8	1	2392	pipe bushing, 1 npt x 3/4 npt		
9	9	110428N038	flatwasher, 3/8		
10	1	111118-4	cylinder head, low pressure		
11	1	111229-001	gasket, head to valve plate		
12	1	111226X2M	valve plate assembly, low pressure		
13	1	115037-L12	hex. screw with sealant, 3/8-16 unc x 1.00, grade 5 (@ 30 ftlbs.)		
14	1	111228-003	gasket, cylinder to valve plate		
† 15	1	23271	tube fitting, straight 3/4 tube x 3/4 npt		
† 16	1	2961-100	safety valve		
17	1	4816	pipe elbow, 3/4 npt		
18	1	112130	intercooler (N.S.S.; order Intercooler Replacement Kit)		
19	1	125936-010	pipe nipple, 3/4 npt x 2.00		
† 20	3	112709-006	plug, 3/4-16 unf ("o"ring included)		
21	1	112710-004	adapter, 3/4-16 unf x 1/4 npt ("o"ring included)		
22	1	123651-003	pipe elbow, 1/4 npt x 90°		
23	1	111550S100	air filter/silencer, hooded		
			Maintenance Parts		
24	4	112708-908	"o"ring, silicone		
25	1	110377E100	air filter element, (fits 111550S100 filter/silencer)		
	1	112713M15	Valve Assembly Replacement Kit, LP includes valve plate assembly & gaskets		
	1	112714	Valve Assembly Replacement Kit, HP		
	_	44040077	includes valve plate assembly & gaskets		
	1	112130K	Intercooler Replacement Kit includes intercooler and nut/sleeve fittings		
	1	KQT15B	<b>Head Replacement Kit</b> includes (2) high pressure and (2) low pressure valve assembly replacement kits and (2) air filter elements		

<sup>\*</sup>As viewed facing the compressor from the sheave side.

N.S.S. = Not Sold Separate.

Note: Tighten all bolts & capscrews in any bolt pattern, evenly bringing each bolt to torque in equal increments, while moving about the bolt pattern. This is particularly true of connecting rod & head bolts.

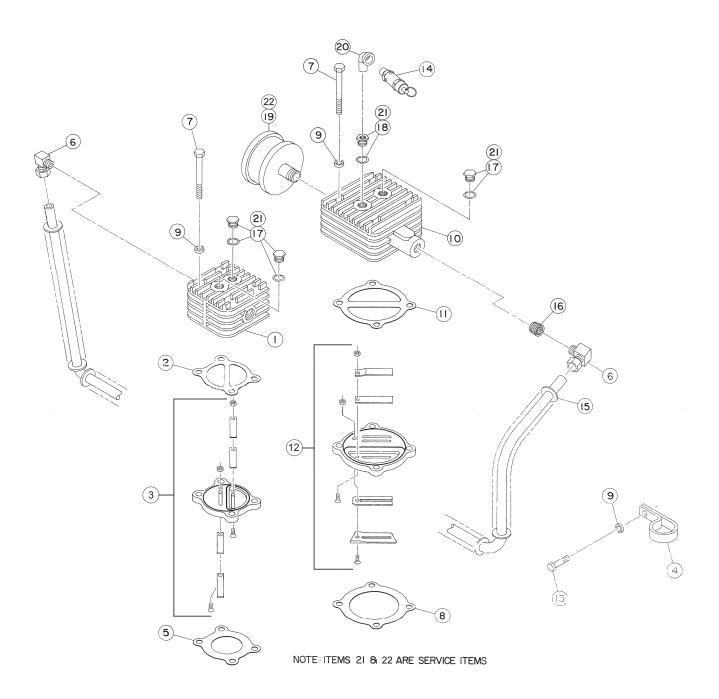
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<sup>@</sup> Indicates torque value (dry threads).

 $<sup>\</sup>dagger$  Install with pipe sealant.

## HEAD GROUP 111936-1

(\*left bank / less head unloaders)



## **HEAD GROUP 111936-1**

(\*left bank / less head unloaders)

Item		Part			
Number	Qty.	Number	Description		
1	1	111115-5	cylinder head, high pressure		
2	1	111274-001	gasket, head to valve plate		
3	1	111227X2	valve plate assembly, high pressure		
4	1	112225-2	tube clamp		
5	1	111228-004	gasket, cylinder to valve plate		
† 6	2	110919-024	tube fitting, 90° male elbow, 3/4 tube x 3/4 npt		
7	8	123478-L25	hex. screw, 3/8-16 unc x 4.00, grade 5 (@ 30 ftlbs.)		
8	1	111228-003	gasket, cylinder to valve plate		
9	9	110428N038	flatwasher, 3/8		
10	1	111118-4	cylinder head, low pressure		
11	1	111229-001	gasket, head to valve plate		
12	1	111226X2M	valve plate assembly, low pressure		
13	1	115037-L12	hex. screw with sealant, 3/8-16 unc x 1.00, grade 5 (@ 30 ftlbs.)		
† 14	1	2961-100	safety valve		
15	1	112129	intercooler (N.S.S.; order Intercooler Replacement Kit)		
† 16	1	112825-002	pipe bushing, 1 npt x 3/4 npt		
† 17	3	112709-006	plug, 3/4-16 unf ("o"ring included)		
† 18	1	112710-004	adapter, 3/4-16 unf x 1/4 npt ("o"ring included)		
19	1	111550S100	air filter/silencer, hooded		
20	1	123651-003	pipe elbow, 1/4 npt x 90°		
			Maintenance Parts		
21	4	112708-908	"o"ring, silicone		
22	1	110377E100	air filter element, (fits111550S100 filter/silencer)		
	1	112713M15	Valve Assembly Replacement Kit, LP		
			includes valve plate assembly & gaskets		
	1	112714	Valve Assembly Replacement Kit, HP		
			includes valve plate assembly & gaskets		
	1	112129K	Intercooler Replacement Kit		
			includes intercooler and nut/sleeve fittings		

<sup>\*</sup>As viewed facing the compressor from the sheave side.

N.S.S. = Not Sold Separate.

Note: Tighten all bolts & capscrews in any bolt pattern, evenly bringing each bolt to torque in equal increments, while moving about the bolt pattern. This is particularly true of connecting rod & head bolts.

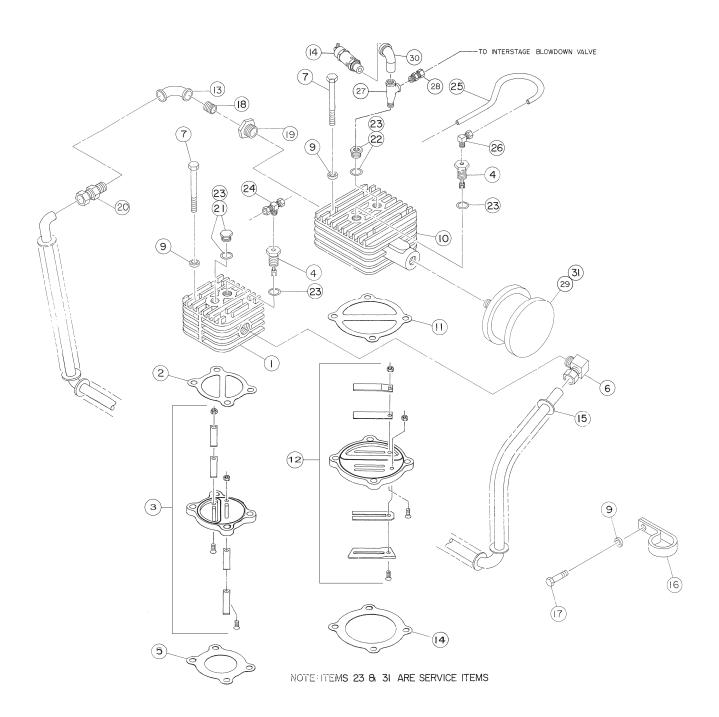
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<sup>@</sup> Indicates torque value (dry threads).

 $<sup>\</sup>dagger$  Install with pipe sealant.

## **HEAD GROUP 112037-1**

(\*right bank / with head unloaders)



## **HEAD GROUP 112037-1**

(\*right bank / with head unloaders)

Item		Part	
Number	Qty.	Number	Description
1	1	111115-5	cylinder head, high pressure
2	1	111274-001	gasket, head to valve plate
3	1	111227X2	valve plate assembly, high pressure
† 4	2	111591X1	unloader
5	1	111228-004	gasket, cylinder to valve plate
† 6	1	110919-024	tube fitting, 90° male elbow, 3/4 tube x 3/4 npt
7	8	123478-L25	hex. screw, 3/8-16 unc x 4.00, grade 5 (@ 30 ftlbs.)
8	1	111228-003	gasket, cylinder to valve plate
9	9	110428N038	flatwasher, 3/8
10	1	111118-4	cylinder head, low pressure
11	1	111229-001	gasket, head to valve plate
12	1	111226X2M	valve plate assembly, low pressure
13	1	4816	pipe elbow, 3/4 npt
† 14	1	2961-100	safety valve
15	1	112130	intercooler (N.S.S.; order Intercooler Replacement Kit)
16	1	112225-2	tube clamp
17	1	115037-L12	hex. screw with sealant, 3/8-16 unc x 1.00, grade 5 (@ 30 ftlbs.)
18	1	125936-010	pipe nipple, 3/4 npt x 2.00
† 19	1	2392	pipe bushing, 1 npt x 3/4 npt
† 20	1	23271	tube fitting, straight $3/4$ tube x $3/4$ npt
$\dagger$ 21	1	112709-006	plug, 3/4-16 unf ("o"ring included)
$\dagger$ 22	1	112710-004	adapter, 3/4-16 unf x 1/4 npt ("o"ring included)
23	2	112708-908	"o"ring, silicone
24	1	124351-004	tube fitting, male branch tee, 1/4 tube x 1/4 npt
25	1	110515-025	copper tube, 1/4 o.d.
26	1	2708	tube fitting, $90^{\circ}$ male elbow, $1/4$ tube x $1/4$ npt
27	1	3003	pipe tee, $1/4$ npt x $1/4$ npt x $1/4$ npt
28	1	110594-005	tube fitting, male connector, 1/4 tube x 1/4 npt
29	1	111550S100	air filter/silencer, hooded
30	1	123651-003	pipe elbow, 1/4 npt x 90°
			Maintenance Parts
31	1	110377E100	air filter element, (fits 111550S100 filter/silencer)
	1	112713M15	Valve Assembly Replacement Kit, LP
			includes valve plate assembly & gaskets
	1	112714	Valve Assembly Replacement Kit, HP
		11010017	includes valve plate assembly & gaskets
	1	112130K	Intercooler Replacement Kit includes intercooler and nut/sleeve fittings
	1	KQT15D	Head Replacement Kit
		•	includes (2) high pressure and (2) low pressure valve assembly replacement kits and (2) air filter elements

<sup>\*</sup>As viewed facing the compressor from the sheave side.

 $N.S.S. = Not\ Sold\ Separate.$ 

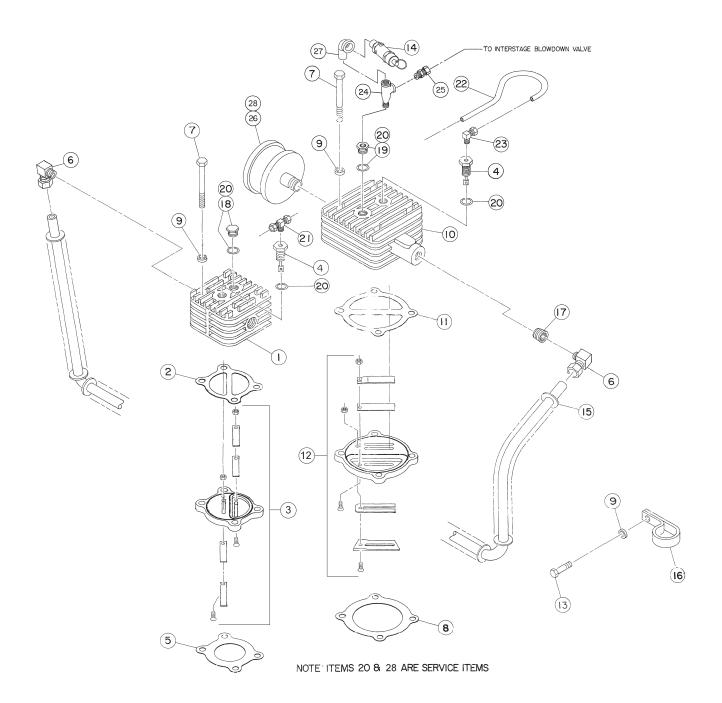
Note: Tighten all bolts & capscrews in any bolt pattern, evenly bringing each bolt to torque in equal increments, while moving about the bolt pattern. This is particularly true of connecting rod & head bolts.

 $<sup>\</sup>dagger$  Install with pipe sealant.

<sup>@</sup> Indicates torque value (dry threads)

## **HEAD GROUP 112038-1**

(\*left bank / with head unloaders)



## **HEAD GROUP 112038-1**

(\*left bank / with head unloaders)

Item		Part			
Number	Qty.	Number	Description		
1	1	111115-5	cylinder head, high pressure		
2	1	111274-001	gasket, head to valve plate		
3	1	111227X2	valve plate assembly, high pressure		
† 4	$^2$	111591X1	unloader		
5	1	111228-004	gasket, cylinder to valve plate		
† 6	$^2$	110919-024	tube fitting, 90° male elbow, 3/4 tube x 3/4 npt		
7	8	123478-L25	hex. screw, 3/8-16 unc x 4.00, grade 5 (@ 30 ftlbs.)		
8	1	111228-003	gasket, cylinder to valve plate		
9	9	110428N038	flatwasher, 3/8		
10	1	111118-4	cylinder head, low pressure		
11	1	111229-001	gasket, head to valve plate		
12	1	111226X2M	valve plate assembly, low pressure		
13	1	115037-L12	hex. screw with sealant, 3/8-16 unc x 1.00, grade 5 (@ 30 ftlbs.)		
† 14	1	2961-100	safety valve		
15	1	112129	intercooler (N.S.S.; order Intercooler Replacement Kit)		
16	1	112225-2	tube clamp		
† 17	1	112825-002	pipe bushing, 1 npt x 3/4 npt		
† 18	1	112709-006	plug, 3/4-16 unf ("o"ring included)		
† 19	1	112710-004	adapter, 3/4-16 unf x 1/4 npt ("o"ring included)		
20	2	112708-908	"o"ring, silicone		
21	1	124351-004	tube fitting, male branch tee, 1/4 tube x 1/4 npt		
22	1ft	110515-025	copper tube, 1/4 o.d.		
23	1	2708	tube fitting, 90° male elbow, 1/4 tube x 1/4 npt		
24	1	3003	pipe tee, $1/4$ npt x $1/4$ npt x $1/4$ npt		
25	1	110594-005	tube fitting, 1/4 tube x 1/4 npt		
26	1	111550S100	air filter/silencer, hooded		
27	1	123651-003	pipe elbow, 1/4 npt x 90°		
			Maintenance Parts		
28	1	110377E100	air filter element, (fits 111550S100 filter/silencer)		
-	1	112713M15	Valve Assembly Replacement Kit, LP		
	_		includes valve plate assembly & gaskets		
	1	112714	Valve Assembly Replacement Kit, HP		
	_		includes valve plate assembly & gaskets		
	1	112129K	Intercooler Replacement Kit		
	_		includes intercooler and nut/sleeve fittings		

 $N.S.S. = Not \ Sold \ Separate.$ 

Note: Tighten all bolts & capscrews in any bolt pattern, evenly bringing each bolt to torque in equal increments, while moving about the bolt pattern. This is particularly true of connecting rod & head bolts.

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<sup>\*</sup>As viewed facing the compressor from the sheave side.

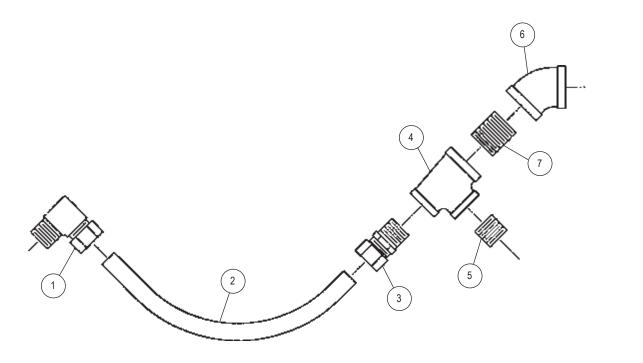
 $<sup>\</sup>dagger$  Install with pipe sealant.

<sup>@</sup> Indicates torque value (dry threads)

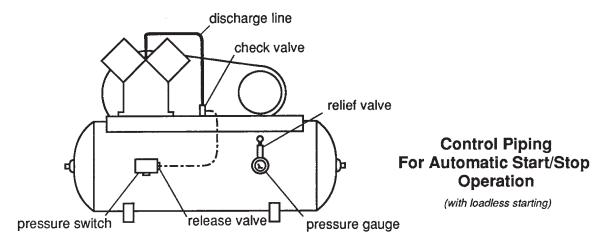
## MANIFOLD GROUP 112257

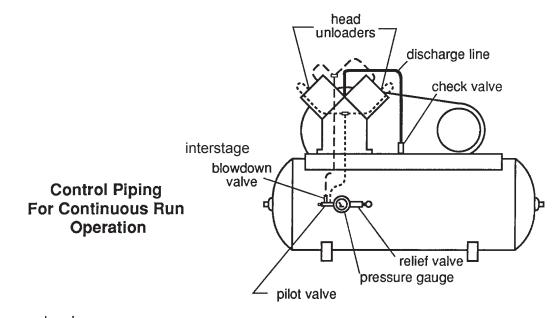
Item Number	Qty.	Part Number	Description	
† 1 2 3 4 † 5	1 2ft 1 1	110919-024 110515-075 23271 122082 124689-001	tube fitting, 90° male elbow, 3/4 tube x 3/4 npt copper tube, 3/4 OD tube fitting, straight 3/4 tube x 3/4 npt pipe tee, 1 npt x 3/4 npt x 3/4 npt pipe nipple, 3/4 npt x close	
6 7	1	22238 $6101$	pipe elbow, $45^\circ$ , $1$ npt pipe nipple, $1$ npt x close	

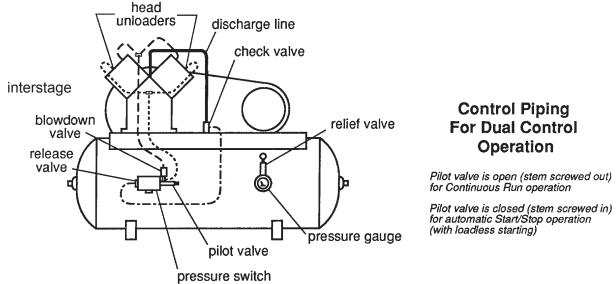
 $<sup>\</sup>dagger$  Install with pipe sealant.



### CONTROL PIPING SCHEMATICS

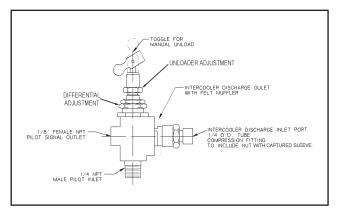






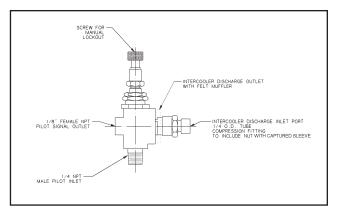
## **PILOT VALVES**

113321-165



113321 series pilot valve

(continuous run operation)			
Available 113321 Series Pilot Valves			
Pilot Valve	Pressure Setting		
113321-090	80-90		
113321-100	90-100		
113321-110	100-110		
113321-125	110-125		
113321-140	130-140		
113321-150	135-150		



113320 series pilot valve (dual control operation)

Available 113320 Series Pilot Valves			
Pilot Valve	Pressure Setting		
113320-095 113320-115 113320-140 113320-165	75-95 100-115 125-140 150-165		

#### **WARNING!**

150-165

Not all pilots are for use with all compressor systems. Make sure that the pilot you order is set within the safe operating limits of your compressor. Failure to heed this warning could result in an explosion.

Pilot Valve Repair Kit 113320K Can be used to repair 113320 & 113321 series pilot valves			
Qty.	Part Description		
1 1 1 1 1 1 1	ball "o"ring piston diaphragm pilot spring piston spring toggle lever rivet		
1 1	muffler retaining ring		

Differential Setting Chart Applies to 113320 & 113321 series pilot valves				
Unload	Min. Dif.	Max. Dif.		
(PSI)	(PSI)	(PSI)		
40	2	5		
60	3	10		
100	4	20		
150	5	30		
175	5	45		

## SUCTION VALVE UNLOADER ASSEMBLIES

#### Description

The Quincy suction valve unloader assembly consists of unloading assemblies on the suction valves, having a plunger to contact the suction valve reed and an unloader pilot valve (113320 or 113321 series) to automatically regulate the passing of air tank pressure to the unloading arrangement.

#### Continuous Run Operation

Suction valve unloader assemblies are recommended for use on Quincy compressors where the compressor is to run continuously and a constant pressure is to be maintained. The purpose is to automatically unseat the suction valve of the compressor when the air supply is greater than the demand.

Unloading occurs when air tank pressure is sufficient to overcome pilot valve spring pressure. The check ball is then unseated, allowing air tank pressure to pass to the unloader assemblies. The compressor will run unloaded until the air tank pressure drops to a predetermined level. At this time, the action of the ball is reversed, shutting off air tank pressure to the unloader assemblies and venting the unloader to atmosphere. This allows the compressor to load. The drive, either electric motor or engine, runs continuously and must be started and stopped manually. 113321 series pilot valves feature a toggle lever which can be flipped to provide manual unloading.

#### **Dual Control Operation**

Dual control operation is designed to provide a choice between "start/stop" or "continuous run" operation. The 113320 series pilot valve can be set for "start/stop" operation by turning the knurled knob at the end of the pilot valve (refer to illustration for 113320 series pilot valve) clockwise until it stops. Under these circumstances, a pressure switch is required to stop the motor. Failure to use a pressure switch, with the pilot valve locked out, will result in unsafe conditions.

#### **WARNING!**

A pressure switch must be incorporated whenever 113320 series pilot valve is employed as part of the control system.

The compressor will operate in the continuous run mode if the knurled knob is turned counterclockwise until it stops.

#### Interstage Blowdown Valve

113320 & 113321 series pilot valves feature an interstage blowdown valve which bleeds interstage pressure back to atmosphere when the compressor is running unloaded. This reduces the unloaded horsepower.

#### Installation

The pilot valve is mounted directly into the air tank. Compressors in the field, not equipped with these controls, can be converted. Consult your local Quincy distributor for assistance with conversion procedures.

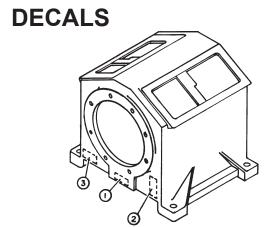
#### Service

If a change in pilot valve operation is detected, remove the pilot valve from the air tank and check the screen in the inlet of the pilot valve for obstructions. Clean the screen if necessary.

#### **Adjustment**

The unloading pressure is adjustable and is regulated by turning the unload adjustment hex nut (refer to pilot valve illustrations). Turn the hex nut clockwise to increase and counterclockwise to decrease the unloading pressure.

The differential (difference between unloading and loading pressure) is set by turning the differential adjustment hex nut (refer to pilot valve illustrations). Increase the differential pressure by turning the hex nut clockwise - decrease by turning counterclockwise. Make all adjustments in small increments. Tighten the locknuts after adjustment.



Decals				
Item #	Qty.	Part Number	Description	
1 2 3	1 1 1	110831 127889-A 127889-B	serial number & nameplate decal, CAUTION!, MANUAL decal, DANGER!,"Air from this"	

## TYPICAL UNIT REPAIR PARTS LIST

The parts listed here are for <u>standard QP-15</u> units and may or may not be applicable to specially built units. Check with your local authorized Quincy distributor for parts that can be used for custom built units. Make sure the components you order are rated within the safe operating limits of your system. If you are doubtful about which components to order, contact your local Quincy distributor.

#### (QP-15 simplex - horizontal tank - electric motor)

Qty         Number         Number         Description           80 gal.         120 gal.         200 gal.           1         113269P200         113272P200         113273P200           tank	
1  113269P200  113272P200  113273P200  tank	
1 113277 n/a <i>113282-001</i> top plate	
1 2713 111136-050 111136-050 tank drain valve	
1 111136-100 111136-100 111136-100 service valve	
1 110514-300 110514-300 110514-300 pressure gauge	
1 110512-005 110512-005 110512-005 pressure switch (standard)	
1 110513-200 110513-200 110513-200 pressure relief valve, 200 PSI (in tank)	
1 2961-215 2961-215 2961-215 pressure relief valve, 215 PSI (in discharge line)	
1 114800-100 114800-100 114800-100 check valve	
1 114559-003 114559-003 114559-003 discharge tube	
2 111265-100 111265-100 111265-100 ferrule/sleeve	
10 h.p. 15 h.p.	
2 110258B094 110258B097 drive belt	
1 8458 116378 motor pulley	
1 5380 8936 bushing	
1 112432K003 112432K003 belt guard assembly	
200v, 3Ø 230/460v, 3Ø	
1 40656 124517-027 10 h.p. motor (ODP)	
1 40657 127466L055 15 h.p. motor (ODP)	

#### (QP-15 duplex - horizontal tank - electric motor)

	Part	Part	Part	
Qtv	Number	Number	Number	Description
	200 gal.	240 gal.		
1	113468P200	113470P200		tank
2	113282-001	113282-001		top plate
1	111136-050	111136-050		tank drain valve
1	111136-100	111136-100		service valve
1	110514-300	110514-300		pressure gauge
1	110512-005	110512-005		pressure switch, 135-175 PSI
1	110512-001	110512-001		pressure switch, 120-150 PSI
1	110513-200	110513-200		pressure relief valve, 200 PSI (in tank)
2	2961-215	2961-215		pressure relief valve, 215 PSI (in discharge line)
2	114800-100	114800-100		check valve
2	114559-003	114559-003		discharge tube
4	111265-100	111265-100		ferrule/sleeve
	40.1			
	10 h.p.	15 h.p.		1 1 1 1
4	110258B094	110258B098		drive belt
2	8458	116378		motor pulley
2	5380	8936		bushing
2	112432K003	112432K003		belt guard assembly
	200v, 3Ø	230/460v, 3Ø		
2	40656	124517-027		10 h.p. motor (ODP)
2	40657	127466L055		15 h.p. motor (ODP)
_				- Table 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997

Part numbers shown in italics apply to tank mounted units and base mounted units.

#### 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 bare 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 INFRINGMENT: 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.

ENVIROMENTAL 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



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