



QR-25[®] Series Model 310

Parts Manual
Record of Change 106

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. 50214-106

February 2008 Edition

INTRODUCTION

This manual provides information for the following QR-25 Series, Model 310 (Record of Change 106) compressor versions:

- L Control Version L**
head assembly with 2 unloader towers
& a hydraulic unloader
- LS Control Version LS**
head assembly with 2 unloader towers, a
hydraulic unloader, & a pilot valve with
a check valve assembly
- LVD Control Version LVD**
head assembly with 2 unloader towers, a
hydraulic unloader, & a pilot valve with
a lockout & check valve

These compressors are aircooled, two stage, two cylinder, pressure lubricated compressors, with up to 200 PSI continuous pressure capability (*201 to 500 PSI intermittent pressure capability with proper configuration; consult factory*). The Model 310 has a 3.5" low pressure piston bore and a 2.5" high pressure piston bore and a 2.5" stroke and can be run at 400-920 RPM.

Available options included in this manual:

- high pressure rated cylinder and head
- spin-on oil filter
- hooded air filter
- hooded air filter / silencer

CHANGES

since previous printing (dated October 2006):

Valve assemblies were redesigned with thicker valve discs.

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MODEL & SERIAL NUMBER IDENTIFICATION

Record
of
Change No.

MODEL		
SERIAL NO.		

110831

**Model & Serial Number
Identification Tag**

The model & serial number tag is located on the handhole plate side of the crankcase. Fill in the numbers from your compressor's tag in the corresponding spaces provided here and reference this page when ordering replacement parts.

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

QUIN-CIP® LUBRICANT

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

Package	Part No.	Description
Barrel	112541D032	55 gal., SAE 10W
Pail	112541P032	5 gal., SAE 10W
Gallon	112541G032	1 gal., SAE 10W
Gallon Case	112541X032	(4)-1 gal., SAE 10W
Quart	112541Q032	1 qt., SAE 10W
Quart Case	112541C032	(12)-1 qt., SAE 10W
Barrel	112542D068	55 gal., SAE 20
Pail	112542P068	5 gal., SAE 20
Gallon	112542G068	1 gal., SAE 20
Gallon Case	112542X068	(4)-1 gal., SAE 20
Quart	112542Q068	1 qt., SAE 20
Quart Case	112542C068	(12)-1 qt., SAE 20
Barrel	112543D100	55 gal., SAE 30
Pail	112543P100	5 gal., SAE 30
Gallon	112543G100	1 gal., SAE 30
Gallon Case	112543X100	(4)-1 gal., SAE 30
Quart	112543Q100	1 qt., SAE 30
Quart Case	112543C100	(12)-1 qt., SAE 30

CRANKCASE LUBRICANT CAPACITY

Model	Less Filter	With Filter
310	1 qt. & 16 oz. (1.42 ml.)	Add 10 oz. (295ml.)

CAUTION !

Refer to the QR-25 Series Instruction Manual for vital lubrication information.

CAUTION !

Follow all safety precautions outlined in the QR-25 Series instruction manual.

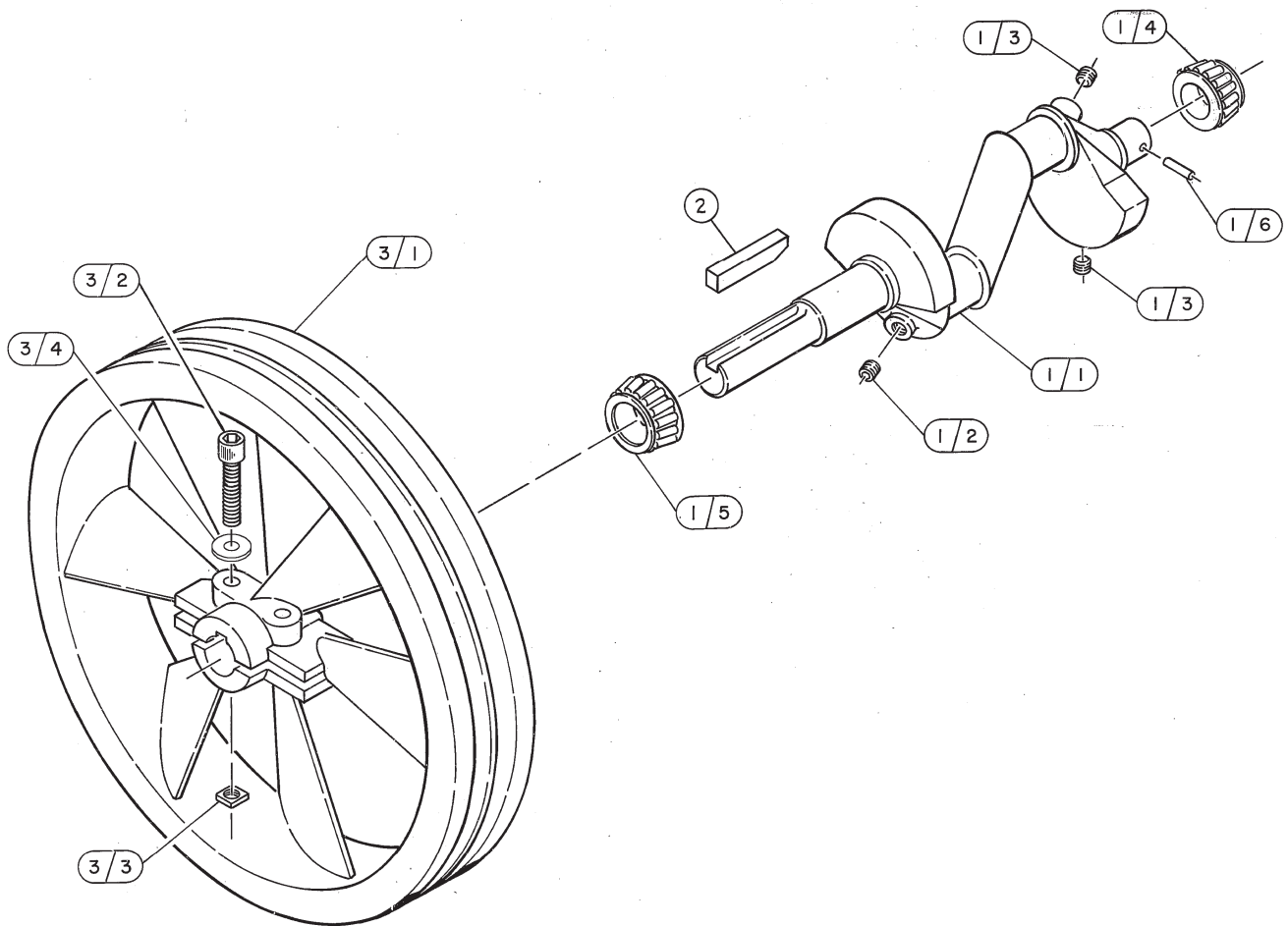
WARNING !

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.

CRANKSHAFT GROUP 110438



CRANKSHAFT GROUP 110438

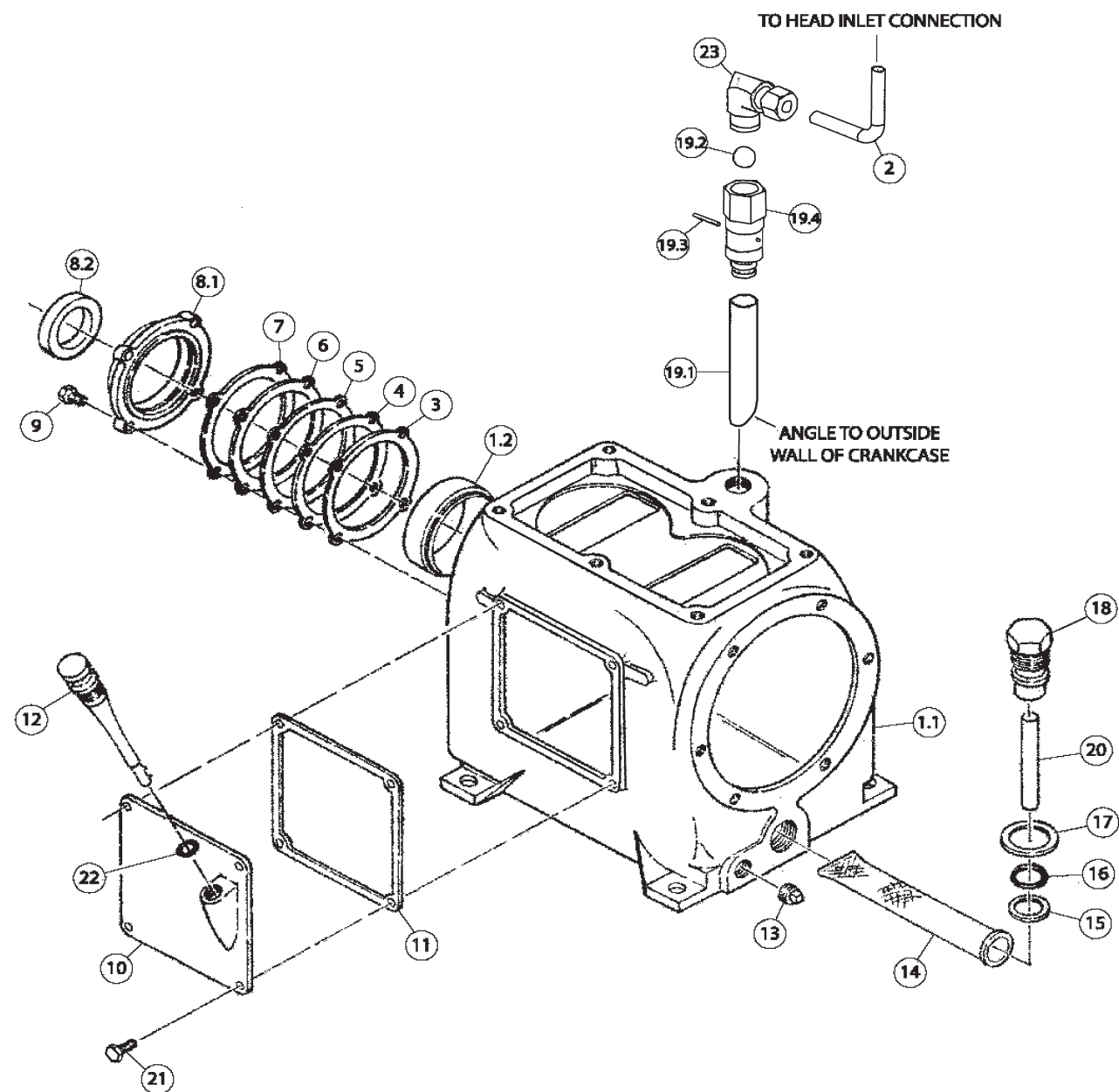
Item Number	Qty.	Part Number	Description
1	1	110219	crankshaft assembly
1.1	1	110218	crankshaft (N.S.S.; order 110219)
1.2	1	110234	orifice, 1/8 npt
1.3	2	2755S	pipe plug, 1/8 npt
1.4	1	4019	bearing cone
1.5	1	2585	bearing cone
1.6	1	110705-F15	pin
2	1	1761	key
3	1	2917X	sheave assembly
3.1	1	2915R	sheave, compressor, 14", 1G,B sect, ccw (N.S.S.; order 2917X)
3.2	2	124239-001	socket head screw, 3/8-16 UNC X 2.75, Grade 5 (@ 30 ft.-lbs.)
3.3	2	124372-L02	square nut, 3/8-16 unc
3.4	2	110428W038	flatwasher
For high pressure rated compressors			
3	1	2919X	sheave assembly
3.1	1	2915R	sheave, compressor, 14", 2G, B sect, ccw (N.S.S.; order 2919X)
3.2	2	124239-001	socket head screw, 3/8-16 unc X 2.75, grade 5 (@ 30 ft.-lbs.)
3.3	2	124372-L02	square nut, 3/8-16 unc
3.4	2	110428W038	flatwasher

N.S.S. = Not Sold Separate

@ Indicates torque value (dry threads)

Note: For reversal of compressor rotation refer to QR-25 instruction manual.

CRANKCASE GROUP 110437-003



CRANKCASE GROUP 110437-003

Item Number	Qty.	Part Number	Description
1	1	5513X002	crankcase assembly
1.1	1	5513-002	crankcase
1.2	1	2523	bearing cup
2	2 ft.	110515-031	copper tube, 5/16 o.d.
3	2	1832	shim, bearing adjustment, .005, steel
4	*	1832A	shim, bearing adjustment, .007, steel
5	*	1832B	shim, bearing adjustment, .020, steel
6	*	1832C	shim, bearing adjustment, .005, paper
7	*	1832D	shim, bearing adjustment, .002 steel
8	1	5516X	adjustment plate assembly
8.1	1	5516	adjustment plate (.0015/.003 crankshaft end play)
8.2	1	6315	oil seal
9	4	123478-L10	hex. screw, 3/8-16 unc x .75, grade 5 (@ 30 ft.-lbs.)
10	1	2321	inspection plate
11	1	1598	gasket, inspection plate
12	1	110070-2	oil gauge
13	1	1301	pipe plug, 3/8 npt
14	1	6272	screen
15	1	6313	gasket, inlet screw
16	1	123157-116	"o"ring, 3/32 wide x .94 o.d.
17	1	6275	gasket, inlet screw
‡ 18	1	6273	oil inlet screw
19	1	112031X001	breather assembly
19.1	1	112032-001	breather tube
19.2	1	5783-002	ball
19.3	1	110705-C11	roll pin, 3/32 x .81
19.4	1	112031-001	breather body
‡ 20	1	8270	tube
21	4	114629	hex. screw, 5/16-18 unc x 1.00, grade 5 (@ 150 in.-lbs.)
22	1	123157-112	"o"ring, 3/32 wide x .69 o.d.
23	1	110919-010	tube fitting, 5/16 tube x 3/8 npt, 90°
Parts for use with diester or phosphate ester synthetic based lubricants			
2.1	1	22749-111	"o"ring, 3/32 wide x .62 o.d.
8.2	1	6315-001	oil seal
12.2	1	22749-112	"o"ring, 3/32 wide x .69 o.d.
16	1	22749-116	"o"ring, 3/32 wide x .94 o.d.

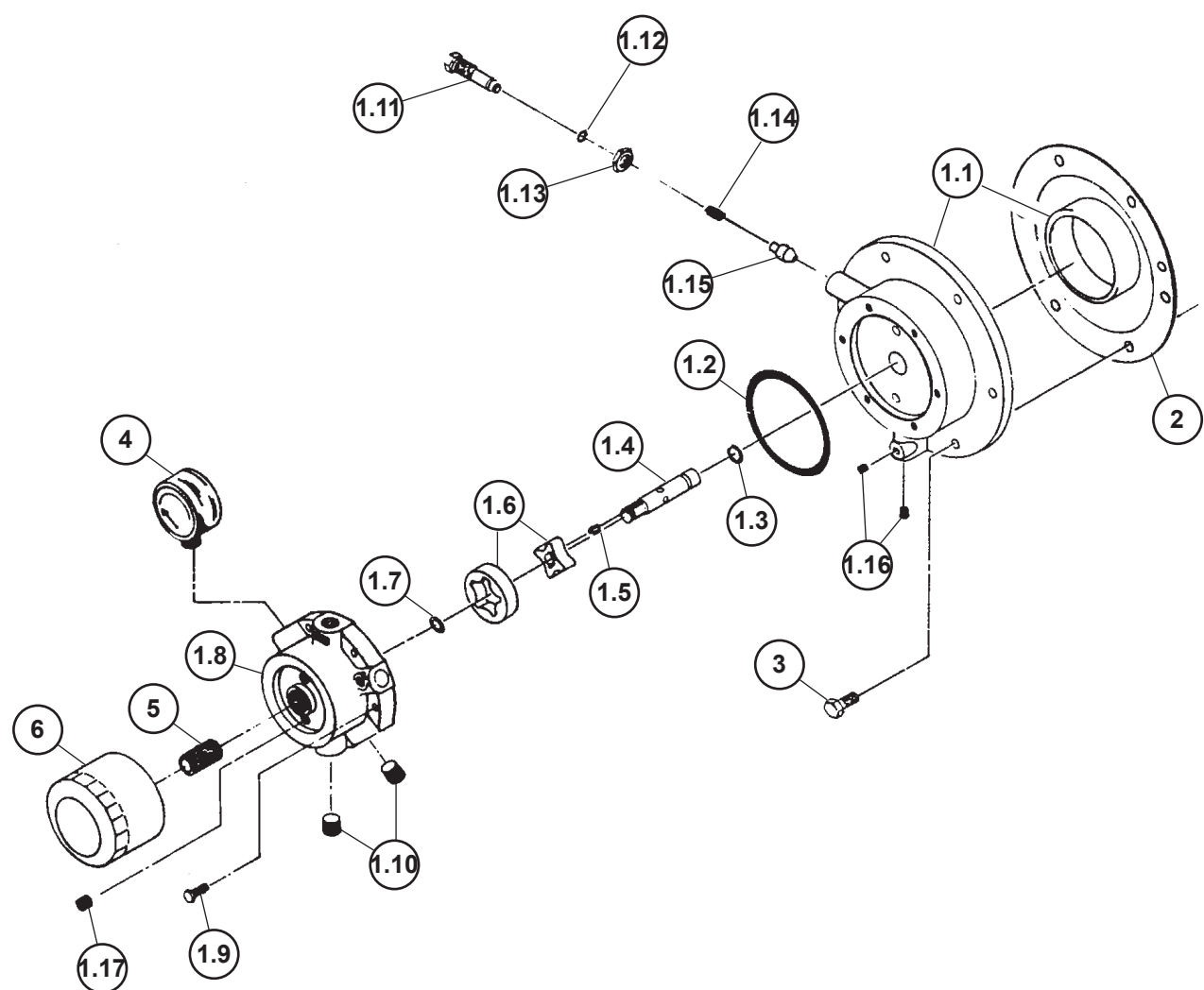
* Quantity as required

@ Indicates torque value (dry threads).

‡ Assemble item 20 to item 18 with Loctite® 609.

BEARING CARRIER GROUP 110815-002

(with oil filter)



BEARING CARRIER GROUP 110815-002

(with oil filter)

Item Number	Qty.	Part Number	Description
1	1	110809-003	bearing carrier assembly
1.1	1	110809	bearing carrier
	1	4018	includes: bearing cup
	2	160005	bushing
* 1.2	1	123157-152	"o"ring, 3/32 wide x 3.44 o.d.
* 1.3	1	123157-112	"o"ring, 3/32 wide x .69 o.d.
1.4	1	160002-002	driveshaft
1.5	1	160075-001	driveshaft key
1.6	1	160003	pump gerotor
1.7	1	6285	retaining ring
1.8	1	110813-001	oil pump housing
1.9	6	123777-J12	hex. screw, 1/4-20 unc x 1.00, grade 5 (6 ft.-lbs.)
1.10	2	2719	pipe plug, 1/4 npt, hex socket
1.11	1	5489	adjustment screw
* 1.12	1	123157-011	"o"ring, 1/16 wide x .44 o.d.
1.13	1	124369-P02	jamnut, 9/16-18 unf
1.14	1	1160	spring
1.15	1	112857	needle valve
1.16	2	6565	hole plug
1.17	1	2755S	pipe plug, 1/8 npt
2	1	6274	gasket, bearing carrier
3	6	123478-L12	hex. screw, 3/8-16 unc x 1.00, grade 5 (@ 30 ft.-lbs.)
4	1	110822	oil pressure gauge
5	1	110825	stud
Maintenance Parts			
* 6	1	110814-001	6 pack of oil filters
		160078	Oil Pump Repair Kit
			includes "o"rings, driveshaft, key, pump gerotor & retaining ring
		110809X003	Replacement Bearing Carrier Assembly
			includes bearing carrier assembly, oil filter, stud & bearing carrier gasket

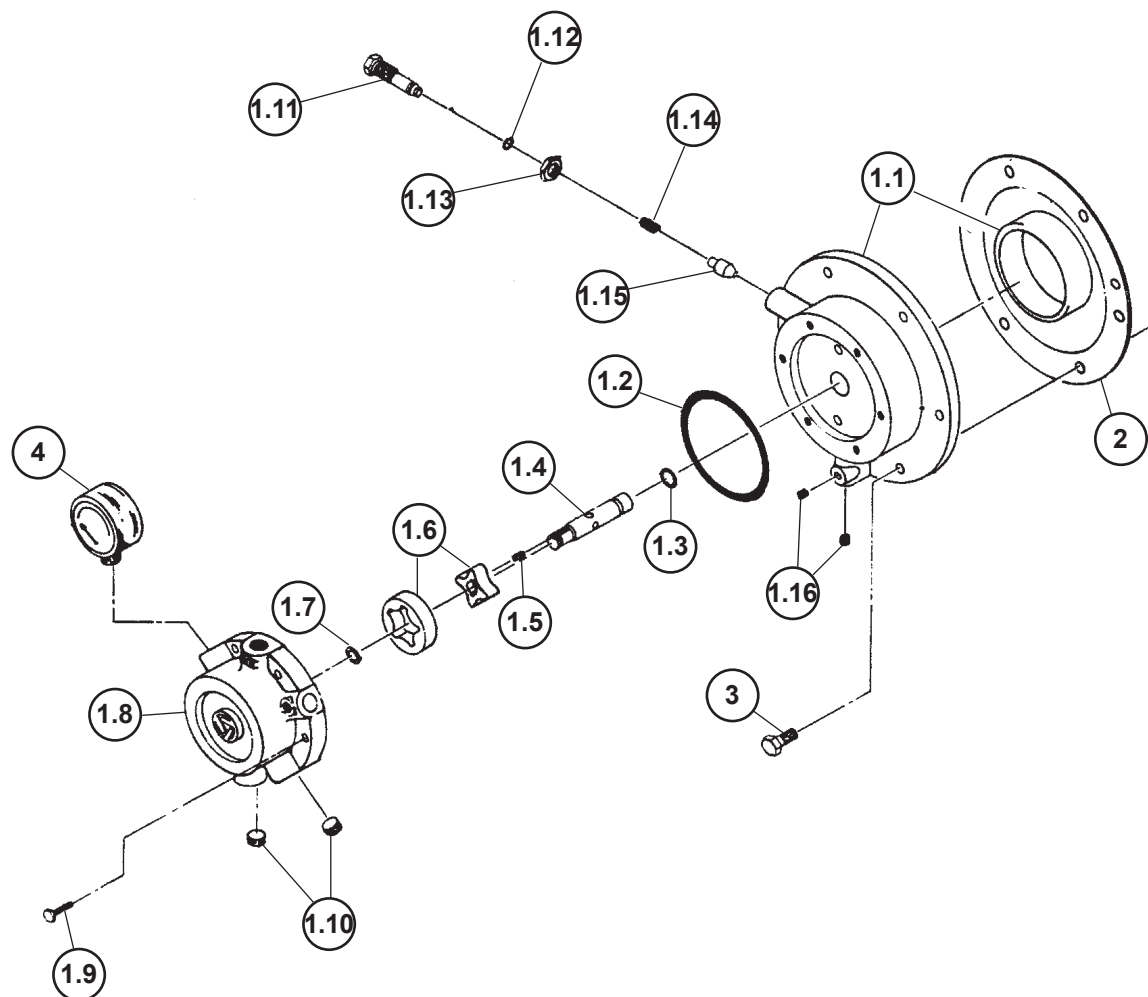
@ Indicates torque value (dry threads). Tighten multiple bolts, capscrews & hex nuts in a criss-cross or alternating pattern. Bring each fastener to the recommended torque specification in even increments.

* Can not be used with diester or phosphate ester synthetic lubricants.

For reversal of compressor rotation refer to the QR-25 instruction manual.

BEARING CARRIER GROUP 110815

(less oil filter)



BEARING CARRIER GROUP 110815

(less oil filter)

Item Number	Qty.	Part Number	Description
1	1	110809-002	bearing carrier assembly
1.1	1	110809	bearing carrier
	1	4018	includes: bearing cup
	2	160005	bushing
* 1.2	1	123157-152	"o"ring, 3/32 wide x 3.44 o.d.
* 1.3	1	123157-112	"o"ring, 3/32 wide x .69 o.d.
1.4	1	160002-002	driveshaft
1.5	1	160075-001	driveshaft key
1.6	1	160003	pump gerotor
1.7	1	6285	retaining ring
1.8	1	110813	housing
1.9	6	123777-J12	hex. screw, 1/4-20 unc x 1.00, grade 5 (@ 6 ft.-lbs.)
1.10	2	2719	pipe plug, 1/4 npt, hex socket
1.11	1	5489	adjustment screw
* 1.12	1	123157-011	"o"ring, 1/16 wide x .44 o.d.
1.13	1	124369-P02	jamnut, 9/16-18 unf
1.14	1	1160	spring
1.15	1	112857	needle valve
1.16	2	6565	hole plug
2	1	6274	gasket, bearing carrier
3	6	123478-L12	hex. screw, 3/8-16 unc x 1.00, grade 5 (@ 30 ft.-lbs.)
4	1	110822	oil pressure gauge

Maintenance Parts

160078

Oil Pump Repair Kit

includes "o"rings, driveshaft, key, pump gerotor & retaining ring

110809X002

Replacement Bearing Carrier Assembly

includes bearing carrier assembly & bearing carrier gasket

Parts for use with diester or phosphate ester synthetic based lubricants

1.2	1	22749-152	"o"ring, 3/32 wide x 3.44 o.d.
1.3	1	22749-112	"o"ring, 3/32 wide x .69 o.d.
1.12	1	22749-011	"o"ring, 1/16 wide x .44 o.d.

160078-001

Oil Pump Repair Kit

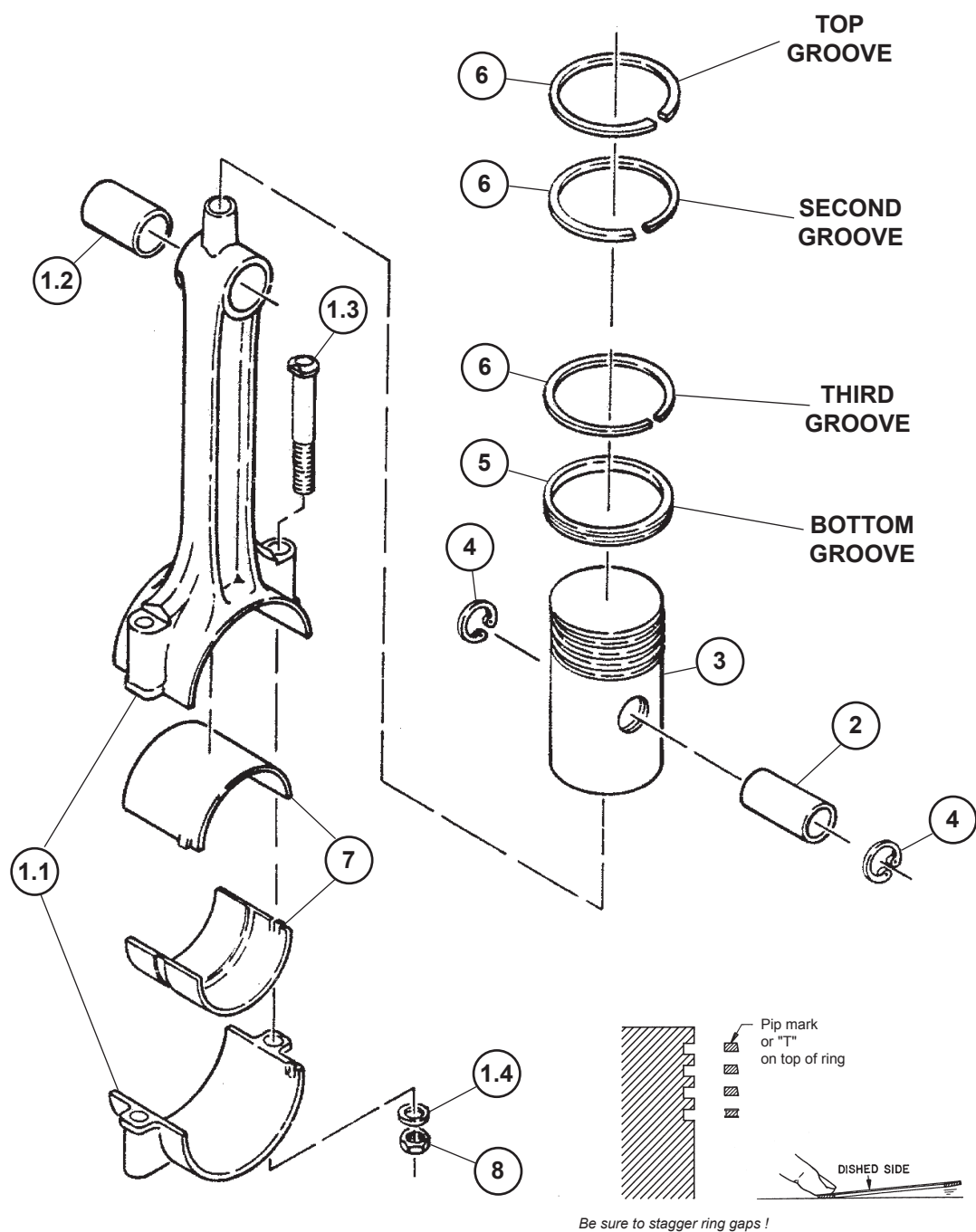
includes "o"rings, driveshaft, key, pump gerotor & retaining ring

@ Indicates torque value (dry threads). Tighten multiple bolts, capscrews & hex nuts in a criss-cross or alternating pattern. Bring each fastener to the recommended torque specification in even increments.

* Can not be used with diester or phosphate ester synthetic lubricants..

CONNECTING ROD & PISTON GROUP 110439

(high pressure)



CONNECTING ROD & PISTON GROUP 110439

(high pressure)

Item Number	Qty.	Part Number	Description
1	1	110703X001	connecting rod assembly (N.S.S.; order 110703X101)
1.1	1	110703-001	connecting rod (N.S.S.; order 110703X101)
1.2	1	6440	connecting rod bushing (can not be purchased; order 6440SR)
1.3	2	3532	connecting rod bolt, 5/16-24 unf
1.4	2	111260-002	connecting rod washer
2	1	110190-011	piston pin
3	1	1910-001	piston
4	2	8648	retaining ring
5	1	1939	oil ring
6	3	1938	compression ring
7	2	2824	insert, con rod bearing (N.S.S.; order 2824PR)
8	2	124471-K08	locknut, 5/16-24 unf (@ 19 ft.-lbs.)
Maintenance Parts			
7	1	2824PR	inserts (pair), con rod bearing,(standard)
7	1	2824-010PR	inserts (pair), con rod bearing, (.010 oversize)
1.2	1	6440SR	bushing
3	1	1910-011	piston, (.010 oversize)
3	1	1910-021	piston, (.020 oversize)
	1	8165	Side Sealer Ring Set, H.P. (standard)
			includes piston rings, springs, compression ring & oil ring
		4452-010	Piston Ring Set (.010 oversize) (light blue)
			includes compression rings & oil ring
		4452-020	Piston Ring Set (.020 oversize) (yellow)
			includes compression rings & oil ring
		1910X001	Replacement Piston Assembly, (standard)
			includes high pressure piston, piston pin, retaining rings & side sealer ring set
		1910X011	Replacement Piston Assembly, (.010 oversize)
			includes high pressure piston, piston pin, retaining rings & ring set
		1910X021	Replacement Piston Assembly, (.020 oversize)
			includes high pressure piston, piston pin, retaining rings & ring set
		110703X101	Replacement Connecting Rod Assembly
			includes connecting rod assembly, bearing inserts & locknuts

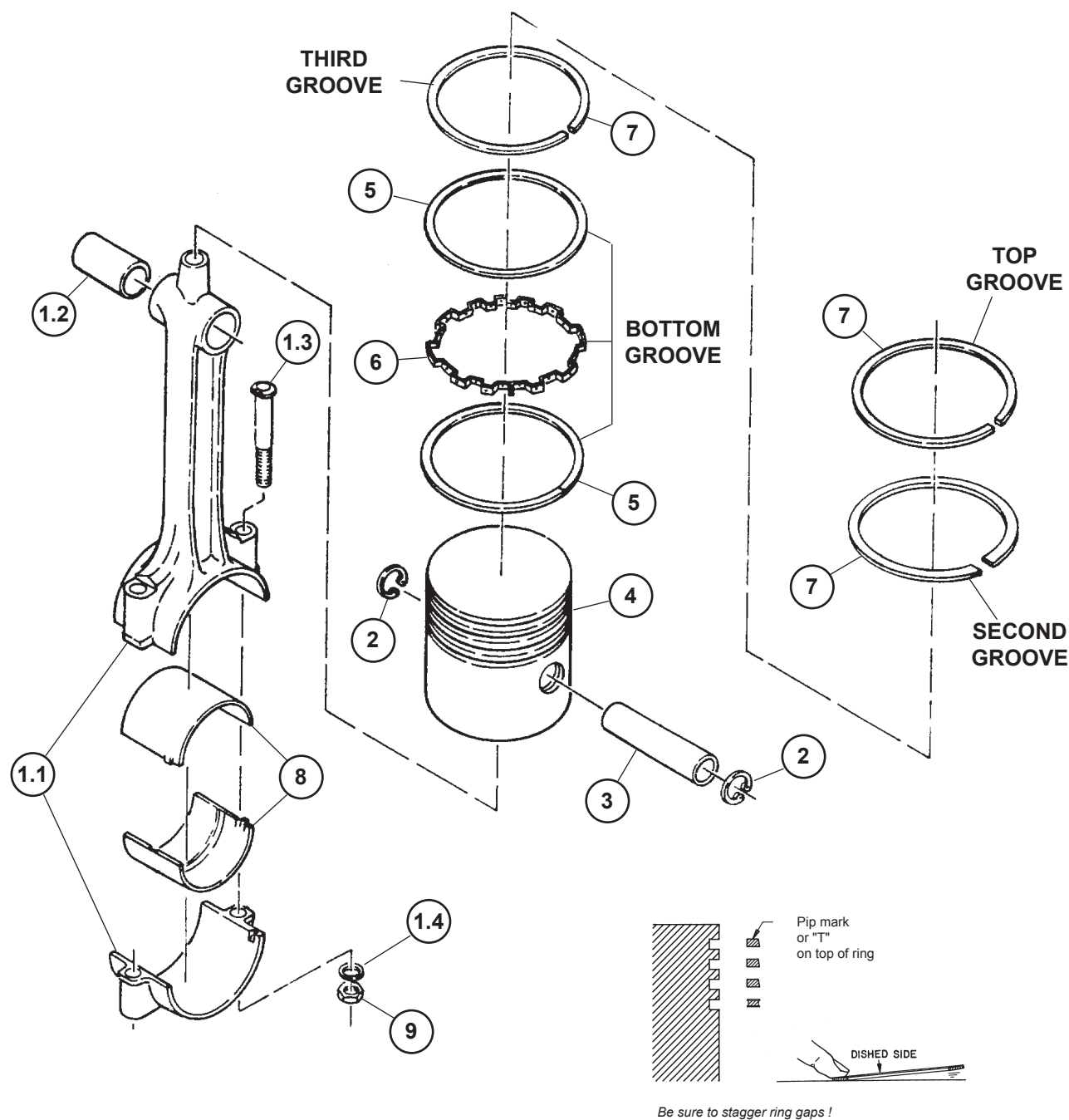
N.S.S. = Not Sold Separate

@ Indicates torque value (dry threads). Tighten multiple bolts, capscrews & hex nuts in a criss-cross or alternating pattern. Bring each fastener to the recommended torque specification in even increments.

* One pair required for each connecting rod assembly.

CONNECTING ROD & PISTON GROUP 110440

(low pressure)



CONNECTING ROD & PISTON GROUP 110440

(low pressure)

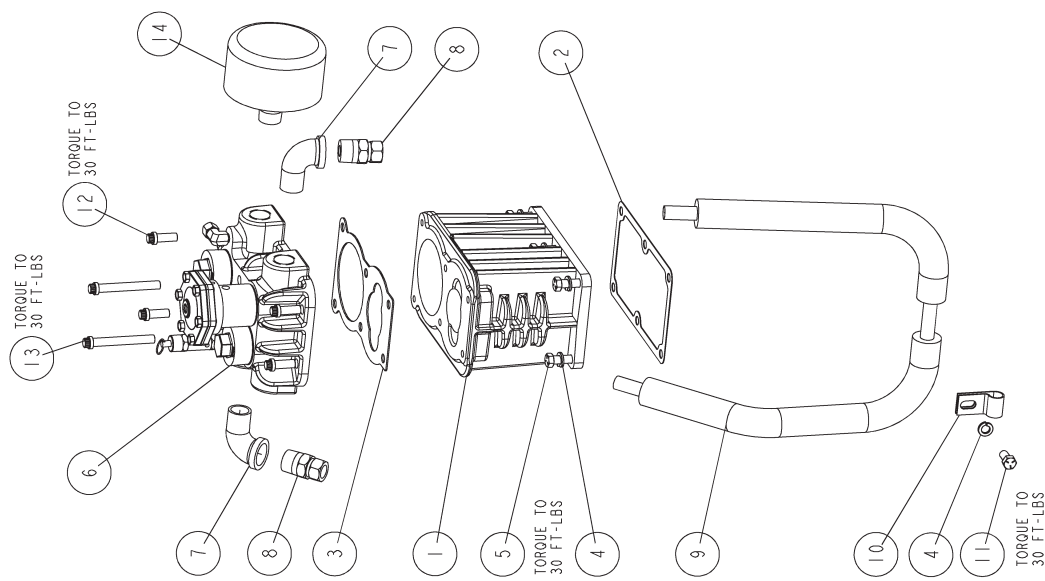
Item Number	Qty.	Part Number	Description
1	1	110703X	connecting rod assembly (N.S.S.; order 110703X1)
1.1	1	110703	connecting rod (N.S.S.; order 110703X1)
1.2	1	6440	connecting rod bushing (can not be purchased; order 6440SR)
1.3	2	3532	connecting rod bolt, 5/16-24 unf
1.4	2	111260-002	connecting rod washer
2	2	8648	retaining ring
3	1	110190-007	piston pin
4	1	1276-001	piston
5	2	6597	rail
6	1	6596	expander
7	3	1650	piston ring
8	2	2824	insert, con rod bearing (N.S.S.; order 2824PR)
9	2	124471-K08	locknut, 5/16-24 unf (@19 ft.-lbs.)
Maintenance Parts			
8	1	2824PR	inserts (pair), con rod bearing,(standard)
8	1	2824-010PR	inserts (pair), con rod bearing, (.010 oversize)
1.2	1	6440SR	bushing
4	1	1276-011	piston (.010 oversize)
4	1	1276-021	piston (.020 oversize)
	1	6592	Side Sealer Ring Set, (standard)
			includes piston rings, springs, rails & expander
		4428-010	Piston Ring Set (.010 oversize) (light blue)
			includes compression rings & oil ring
		4428-020	Piston Ring Set (.020 oversize) (yellow)
			includes compression rings & oil ring
		1276X001	Replacement Piston Assembly, (standard)
			includes low pressure piston, piston pin, retaining rings & side sealer ring set
		1276X011	Replacement Piston Assembly, (.010 oversize)
			includes low pressure piston, piston pin, retaining rings & ring set
		1276X021	Replacement Piston Assembly, (.020 oversize)
			includes low pressure piston, piston pin, retaining rings & ring set
		110703X1	Replacement Connecting Rod Assembly
			includes connecting rod assembly, bearing inserts & locknuts

@ Indicates torque value (dry threads). Tighten multiple bolts, capscrews & hex nuts in a criss-cross or alternating pattern. Bring each fastener to the recommended torque specification in even increments.

* One pair required for each connecting rod assembly.

CYLINDER & HEAD GROUP 110443-004

(control version L)



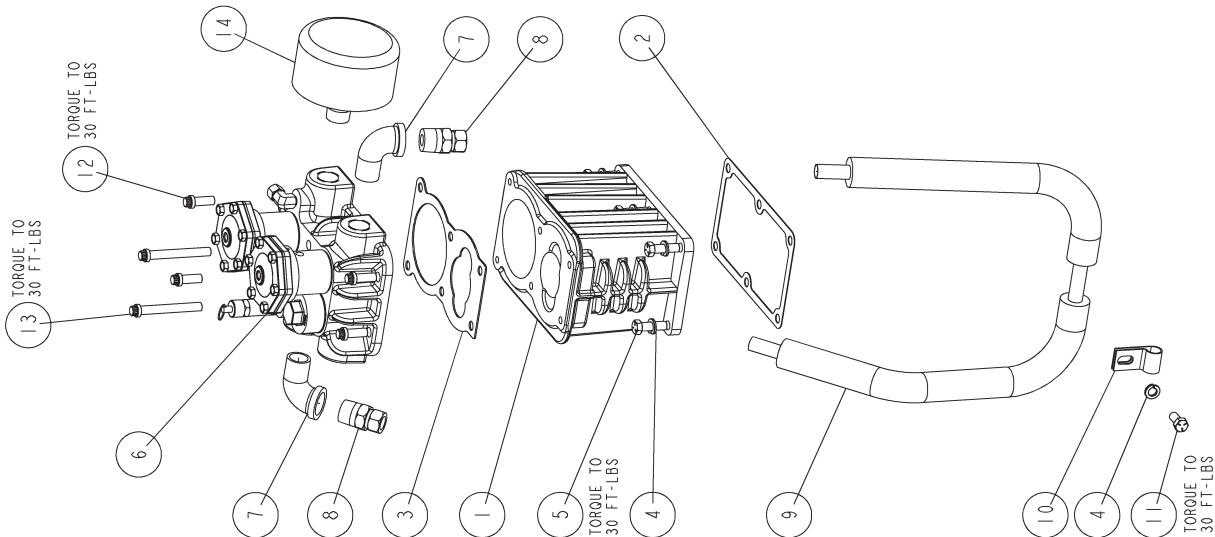
ITEM	PART NUMBER	QTY	DESCRIPTION
* 1	1909	1	CYLINDER
2	1594	1	GASKET, CYLINDER TO CRANKCASE
3	5698	1	GASKET, CYLINDER TO HEAD
4	123115-06C	7	LOCKWASHER
5	123478-L14	6	HEX SCREW, 3/8-16 UNC X 1.25, GRADE 5
* 6	115639U	1	HEAD ASSEMBLY 310L
7	3092	2	PIPE ELBOW, 3/4 NPT X 3/4 NPT, 90
8	124393-022	2	TUBE FITTING, MALE CONNECTOR, 5/8 TUBE X 3/4 NPT
9	115652	1	INTERCOOLER
10	6292-001	1	CLAMP, INTERCOOLER
11	123478-L10	1	HEX SCREW, 3/8-16 UNC X .75, GRADE 5
12	90386-L12	4	COUNTERBORE SCREW, 3/8-16 UNC X 1.00, GRADE 8
13	90386-L21	2	COUNTERBORE SCREW, 3/8-16 UNC X 3.00, GRADE 8
14	110377F075	1	AIR FILTER
14	110377S075	1	AIR FILTER, HOODED/SILENCER
MAINTENANCE PARTS			
	110377E075	1	AIR FILTER ELEMENT
	115639X23L		REPLACEMENT HEAD ASSEMBLY INCLUDES HEAD ASSEMBLY, COPPER TUBE, TUBE FITTING AND GASKET.

- * HIGH PRESSURE COMPRESSORS AND DNV CERTIFIED APPLICATIONS REQUIRE 115639HPS HEAD IN LIEU OF 115639 HEAD AND 1909HPS CYLINDER IN LIEU OF 1909 CYLINDER.
- TIGHTEN ALL BOLTS AND CAPSCREWS IN ANY BOLT PATTERN, EVENLY BRINGING EACH FASTENER TO TORQUE IN EQUAL INCREMENTS, WHILE MOVING ABOUT THE BOLT PATTERN.

High pressure models can be identified by an "HP" included in the model designation on the serial number tag or by an "HP" stamped into the head.

CYLINDER & HEAD GROUP 110444-004

(control versions LS, & LVD)

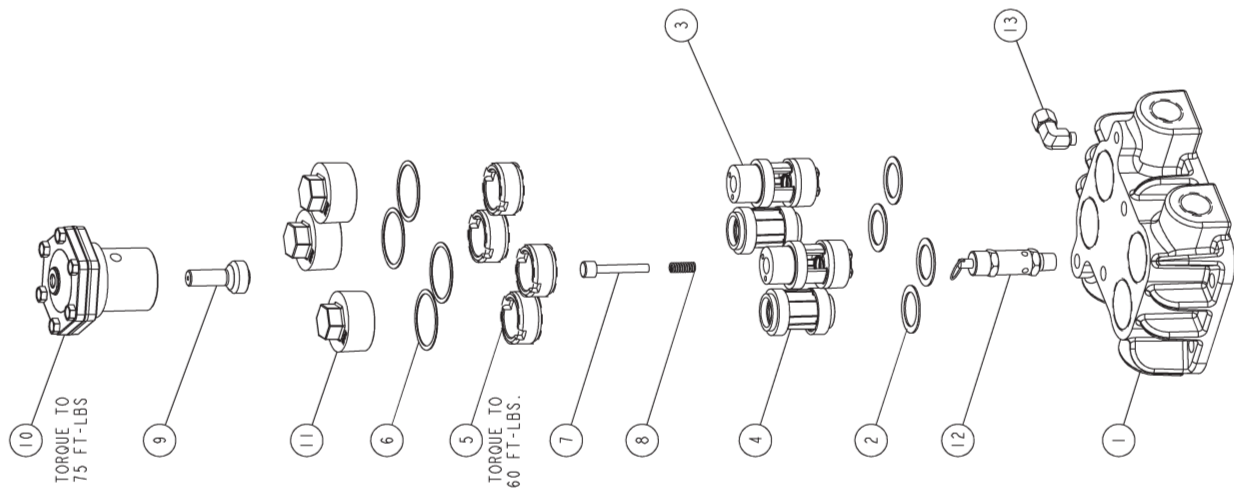


ITEM	PART NUMBER	QTY	DESCRIPTION
*1	1909	1	CYLINDER
2	1594	1	GASKET, CYLINDER TO CRANKCASE
3	5698	1	GASKET, CYLINDER TO HEAD
4	123115-06C	7	LOCKWASHER
5	123478-L14	6	HEX SCREW, 3/8-16 UNC X 1.25, GRADE 5
*6	115639UU	1	HEAD ASSEMBLY 310LVD
7	3092	2	PIPE ELBOW, 3/4 NPT X 3/4 NPT, 90
8	124393-022	2	TUBE FITTING, MALE CONNECTOR, 5/8 TUBE X 3/4 NPT
9	115652	1	INTERCOOLER
10	6292-001	1	CLAMP, INTERCOOLER
11	123478-L10	1	HEX SCREW, 3/8-16 UNC X .75, GRADE 5
12	90386-L12	4	COUNTERBORE SCREW, 3/8-16 UNC X 1.00, GRADE 8
13	90386-L21	2	COUNTERBORE SCREW, 3/8-16 UNC X 3.00, GRADE 8
14	110377F075	1	AIR FILTER
14	110377S075	1	AIR FILTER, HOODED/SILENCER
MAINTENANCE PARTS			
	110377E075	1	AIR FILTER ELEMENT
	115639X23S		REPLACEMENT HEAD ASSEMBLY INCLUDES HEAD ASSEMBLY, COPPER TUBE, TUBE FITTING AND GASKETS.

- * HIGH PRESSURE COMPRESSORS AND DNV CERTIFIED APPLICATIONS REQUIRE 115639HPS HEAD IN LIEU OF 115639 HEAD AND 1909HPS CYLINDER IN LIEU OF 1909 CYLINDER.
- TIGHTEN ALL BOLTS AND CAPSCREWS IN ANY BOLT PATTERN, EVENLY BRINGING EACH FASTENER TO TORQUE IN EQUAL INCREMENTS, WHILE MOVING ABOUT THE BOLT PATTERN.
- High pressure models can be identified by an "HP" included in the model designation on the serial number tag or by an "HP" stamped into the head.

HEAD ASSEMBLY 115639U

(control version L)

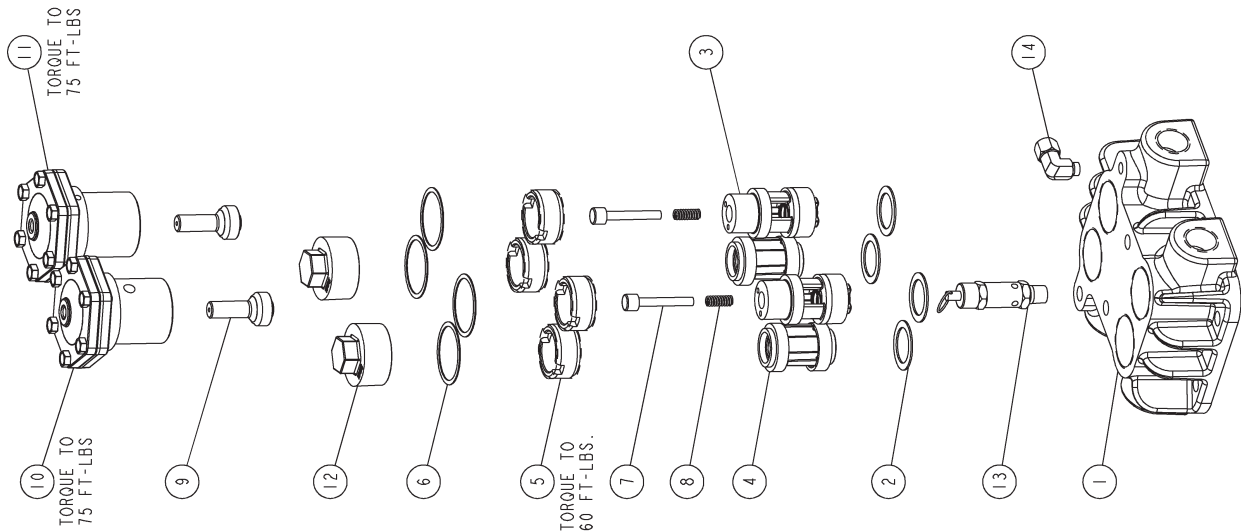


ITEM	PART NUMBER	QTY	DESCRIPTION
1	115639	1	HEAD, AIRCOOLED
2	1554	4	GASKET
3	4610X2	2	SUCTION VALVE ASSEMBLY
4	1553X10	2	DISCHARGE VALVE AY
5	3008	4	HOLD DOWN SCREW
6	1556	4	VALVE COVER CAP GASKET
7	6937	1	UNLOADER PLUNGER
8	6945	1	SPRING, UNLOAD. PIN
9	7532X	1	UNLOADER PISTON ASSEMBLY
10	40055	1	AY, UNLOADER, PNEUMATIC
11	1555	3	CAP
12	2961-100	1	PRESSURE RELIEF VALVE
13	2709	1	TUBE FITTING, 90 DEGREES MALE ELBOW
MAINTENANCE PARTS			
	4610X3	1	REPLACEMENT SUCTION VALVE ASSEMBLY INCLUDES ITEM 2 AND 3 (1 EACH)
	1553X11	1	REPLACEMENT DISCHARGE VALVE ASSEMBLY INCLUDES ITEM 2 AND 4 (1 EACH)
	7483X	1	REPLACEMENT UNLOADER ASSEMBLY, INCLUDES ITEMS 2, 9, 10, & PIPE PLUG (1 EACH)

* HIGH PRESSURE COMPRESSORS AND DNV CERTIFIED APPLICATIONS REQUIRE 115639HPS HEAD IN LIEU OF 115639 HEAD.

HEAD ASSEMBLY 115639UU

(control versions LS, LVD)



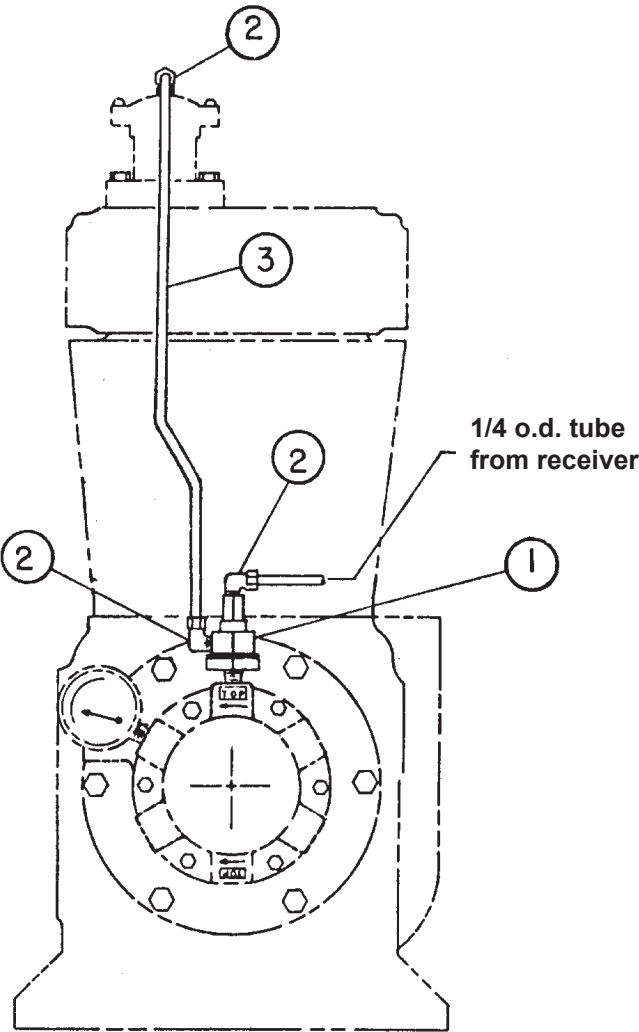
ITEM	PART NUMBER	QTY	DESCRIPTION
1	115639	1	HEAD, AIRCOOLED
2	1554	4	GASKET
3	4610X2	2	SUCTION VALVE ASSEMBLY
4	1553X10	2	DISCHARGE VALVE AY
5	3008	4	HOLD DOWN SCREW
6	1556	4	VALVE COVER CAP GASKET
7	6937	2	UNLOADER PLUNGER
8	6945	2	SPRING, UNLOAD. PIN
9	7532X	2	UNLOADER PISTON ASSEMBLY
10	40055	1	AY, UNLOADER, PNEUMATIC
11	40192	1	UNLOADER ASSEMBLY
12	1555	2	CAP
13	2961-100	1	PRESSURE RELIEF VALVE
14	2709	1	TUBE FITTING, 90 DEGREES MALE ELBOW
MAINTENANCE PARTS			
	4610X3	1	REPLACEMENT SUCTION VALVE ASSEMBLY INCLUDES ITEM 2 AND 3 (1 EACH)
	1553X11	1	REPLACEMENT DISCHARGE VALVE ASSEMBLY INCLUDES ITEM 2 AND 4 (1 EACH)
	7483X	1	REPLACEMENT UNLOADER ASSEMBLY, INCLUDES ITEMS 2, 9, 10, & PIPE PLUG (1 EACH)
	8272X	1	REPLACEMENT UNLOADER ASSEMBLY, INCLUDES ITEMS 2, 9, & 11 (1 EACH)

* HIGH PRESSURE COMPRESSORS AND DNV CERTIFIED APPLICATIONS REQUIRE 115639HPS HEAD IN LIEU OF 115639 HEAD.

CONTROL GROUPS 110855 & 110856

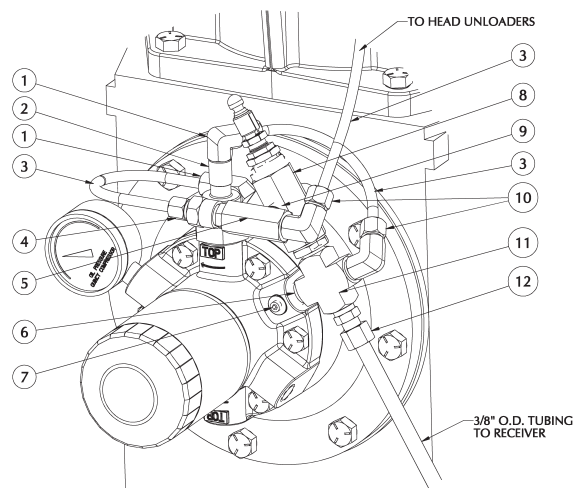
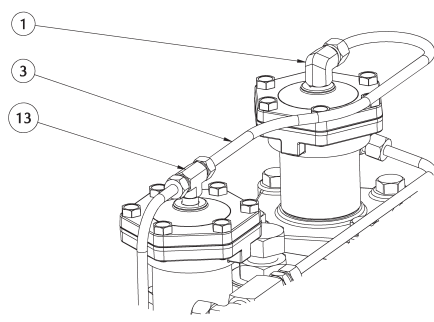
(control versions L)

Item Number	Qty.	Part Number	Part Number	Description
		0-200 PSI	201-500 PSI	
1	1	110827-001	110827-002	hydraulic unloader assembly
2	3	1642	1642	tube fitting, 90° male elbow, 1/4 tube x 1/8 npt
3	4 ft.	110515-025	110515-025	copper tube, 1/4 o.d.



CONTROL GROUPS 116112-175 & 116112-998

(control version LS)



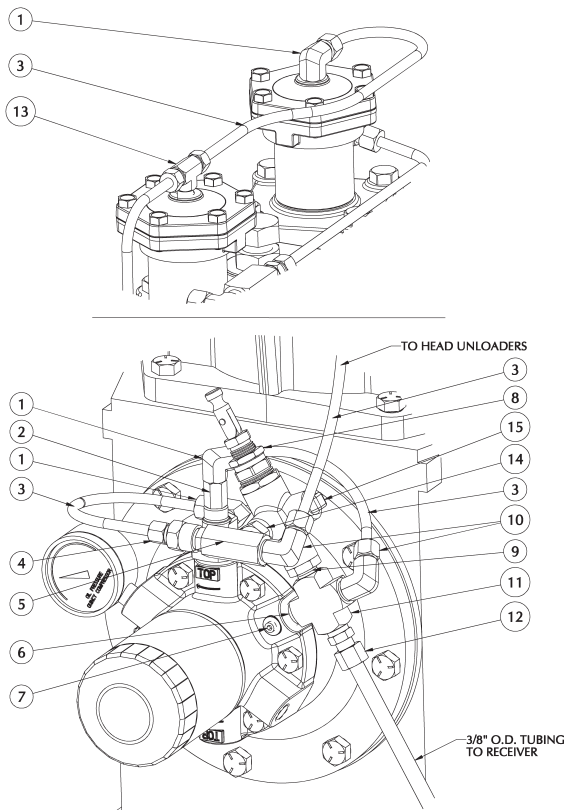
116112-175 "LS" CONTROL GROUP (175 PSI)			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	1642	TUBE FITTING, ELBOW, 1/4" TUBE X 1/8" NPT
2	1	110827-001	HYDRAULIC UNLOADER ASSEMBLY, 0-200 PSI
3	5 FT	110515-025	COPPER TUBE, 1/4" O.D.
4	1	9353	TUBE FITTING, 1/4" TUBE X 1/4" FEMALE NPT
5	1	6194X2	CHECK VALVE
6	1	6317	STUD, MOUNTING
7	1	160047-J05	SET SCREW
8	1	113708-175	PILOT VALVE, TOGGLE, 165-175 PRESET
9	1	126015-001	NIPPLE, SCH40, GALV, 1/8" X CLOSE
10	2	2708	TUBE FITTING, ELBOW, 1/4" TUBE X 1/4" NPT
11	1	6150	CROSS, BRASS, 1/4"
12	1	2616	TUBE FITTING, 3/8" TUBE X 1/4" NPT
13	1	1665	TUBE FITTING, TEE, 1/4" TUBE X 1/8" NPT
MAINTENANCE PARTS			
		6317X1	MOUNTING STUD KIT INCLUDES ITEMS 6 & 7 (1 EACH)
		113225	HYDRAULIC UNLOADER REPAIR KIT INCLUDES DIAPHRAGM, STEM ASSEMBLY, INLET FILTER, FITTING ASSEMBLY, & SPRINGS.
		110827-003	HYDRAULIC UNLOADER ASSEMBLY, 0-200 PSI USE WITH DIESTER OR PHOSPHATE ESTER SYNTHETIC BASED LUBRICANTS.

116112-998 "LS" CONTROL GROUP (60-200 PSI)			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	1642	TUBE FITTING, ELBOW, 1/4" TUBE X 1/8" NPT
2	1	110827-001	HYDRAULIC UNLOADER ASSEMBLY, 0-200 PSI
3	5 FT	110515-025	COPPER TUBE, 1/4" O.D.
4	1	9353	TUBE FITTING, 1/4" TUBE X 1/4" FEMALE NPT
5	1	6194X2	CHECK VALVE
6	1	6317	STUD, MOUNTING
7	1	160047-J05	SET SCREW
8	1	113708-998	PILOT VALVE, TOGGLE, 60-200 (CUSTOM SET)
9	1	126015-001	NIPPLE, SCH40, GALV, 1/8" X CLOSE
10	2	2708	TUBE FITTING, ELBOW, 1/4" TUBE X 1/4" NPT
11	1	6150	CROSS, BRASS, 1/4"
12	1	2616	TUBE FITTING, 3/8" TUBE X 1/4" NPT
13	1	1665	TUBE FITTING, TEE, 1/4" TUBE X 1/8" NPT
MAINTENANCE PARTS			
		6317X1	MOUNTING STUD KIT INCLUDES ITEMS 6 & 7 (1 EACH)
		113225	HYDRAULIC UNLOADER REPAIR KIT INCLUDES DIAPHRAGM, STEM ASSEMBLY, INLET FILTER, FITTING ASSEMBLY, & SPRINGS.
		110827-003	HYDRAULIC UNLOADER ASSEMBLY, 0-200 PSI USE WITH DIESTER OR PHOSPHATE ESTER SYNTHETIC BASED LUBRICANTS.

* See page 24 for optional pilot valves that must be used with respective pressure ranges.

CONTROL GROUPS 116112-999 & 116112-000

(control version LS)



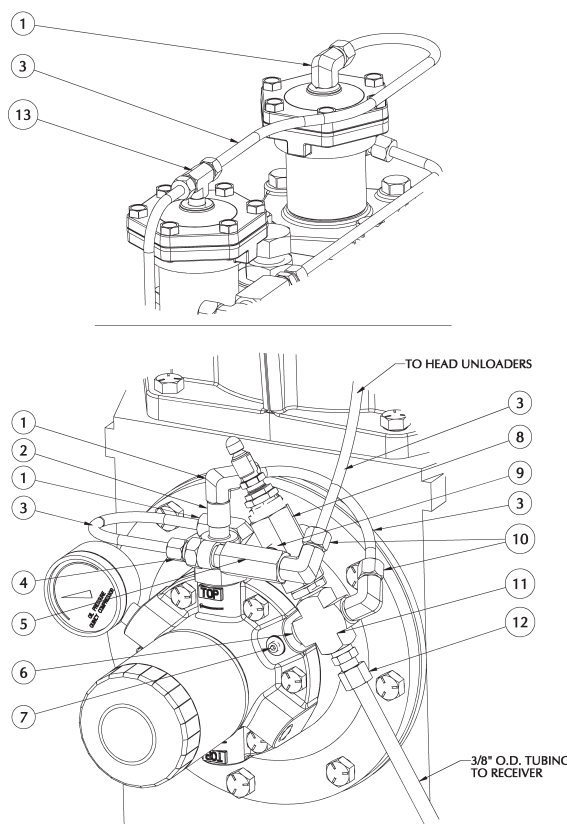
116112-999 "LS" CONTROL GROUP (201-400 PSI)			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	1642	TUBE FITTING, ELBOW, 1/4" TUBE X 1/8" NPT
2	1	110827-002	HYDRAULIC UNLOADER ASSEMBLY, 201-500 PSI
3	5 FT	110515-025	COPPER TUBE, 1/4" O.D.
4	1	9353	TUBE FITTING, 1/4" TUBE X 1/4" FEMALE NPT
5	1	6194X2	CHECK VALVE
6	1	6317	STUD, MOUNTING
7	1	160047-J05	SET SCREW
8	1	110832-999	PILOT VALVE, TOGGLE (CUSTOM SETTING)
9	1	121032-3	NIPPLE, BRASS, 1/4" X CLOSE
10	2	2708	TUBE FITTING, ELBOW, 1/4" TUBE X 1/4" NPT
11	1	6150	CROSS, BRASS, 1/4"
12	1	2616	TUBE FITTING, 3/8" TUBE X 1/4" NPT
13	1	1665	TUBE FITTING, TEE, 1/4" TUBE X 1/8" NPT
14	1	116110	REDUCER, NIPPLE, HEX, .025 X .012
15	1	2719	PLUG, PIPE 1/4"
MAINTENANCE PARTS			
		6317X1	MOUNTING STUD KIT INCLUDES ITEMS 6 & 7 (1 EACH)
		113225	HYDRAULIC UNLOADER REPAIR KIT INCLUDES DIAPHRAGM, STEM ASSEMBLY, INLET FILTER, FITTING ASSEMBLY, & SPRINGS.
		110827-004	HYDRAULIC UNLOADER ASSEMBLY, 201-500 PSI USE WITH DIESTER OR PHOSPHATE ESTER SYNTHETIC BASED LUBRICANTS.

116112-000 "LS" CONTROL GROUP (401-500 PSI)			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	1642	TUBE FITTING, ELBOW, 1/4" TUBE X 1/8" NPT
2	1	110827-002	HYDRAULIC UNLOADER ASSEMBLY, 201-500 PSI
3	5 FT	110515-025	COPPER TUBE, 1/4" O.D.
4	1	9353	TUBE FITTING, 1/4" TUBE X 1/4" FEMALE NPT
5	1	6194X2	CHECK VALVE
6	1	6317	STUD, MOUNTING
7	1	160047-J05	SET SCREW
8	1	110832-000	PILOT VALVE, TOGGLE (CUSTOM SETTING)
9	1	121032-3	NIPPLE, BRASS, 1/4" X CLOSE
10	2	2708	TUBE FITTING, ELBOW, 1/4" TUBE X 1/4" NPT
11	1	6150	CROSS, BRASS, 1/4"
12	1	2616	TUBE FITTING, 3/8" TUBE X 1/4" NPT
13	1	1665	TUBE FITTING, TEE, 1/4" TUBE X 1/8" NPT
14	1	116110	REDUCER, NIPPLE, HEX, .025 X .012
15	1	2719	PLUG, PIPE 1/4"
MAINTENANCE PARTS			
		6317X1	MOUNTING STUD KIT INCLUDES ITEMS 6 & 7 (1 EACH)
		113225	HYDRAULIC UNLOADER REPAIR KIT INCLUDES DIAPHRAGM, STEM ASSEMBLY, INLET FILTER, FITTING ASSEMBLY, & SPRINGS.
		110827-004	HYDRAULIC UNLOADER ASSEMBLY, 201-500 PSI USE WITH DIESTER OR PHOSPHATE ESTER SYNTHETIC BASED LUBRICANTS.

* See page 24 for optional pilot valves that must be used with respective pressure ranges.

CONTROL GROUPS 116115-165 & 116115-998

(control version LVD)



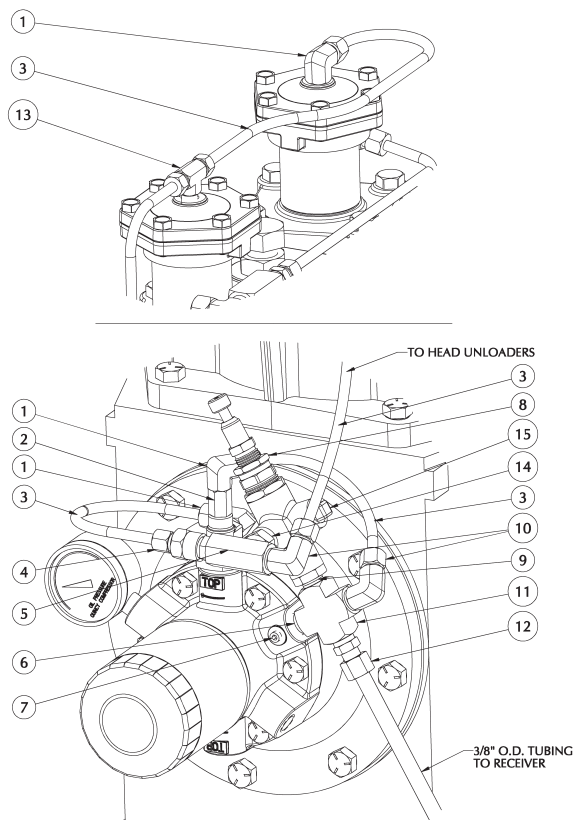
116115-165 "LVD" CONTROL GROUP (165 PSI)			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	1642	TUBE FITTING, ELBOW, 1/4" TUBE X 1/8" NPT
2	1	110827-001	HYDRAULIC UNLOADER ASSEMBLY, 0-200 PSI
3	5 FT	110515-025	COPPER TUBE, 1/4" O.D.
4	1	9353	TUBE FITTING, 1/4" TUBE X 1/4" FEMALE NPT
5	1	6194X2	CHECK VALVE
6	1	6317	STUD, MOUNTING
7	1	160047-J05	SET SCREW
8	1	110998-165A	PILOT VALVE, KNOB, 155-165 PRESET
9	1	126015-001	NIPPLE, SCH40, GALV, 1/8" X CLOSE
10	2	2708	TUBE FITTING, ELBOW, 1/4" TUBE X 1/4" NPT
11	1	6150	CROSS, BRASS, 1/4"
12	1	2616	TUBE FITTING, 3/8" TUBE X 1/4" NPT
13	1	1665	TUBE FITTING, TEE, 1/4" TUBE X 1/8" NPT
MAINTENANCE PARTS			
		6317X1	MOUNTING STUD KIT INCLUDES ITEMS 6 & 7 (1 EACH)
		113225	HYDRAULIC UNLOADER REPAIR KIT INCLUDES DIAPHRAGM, STEM ASSEMBLY, INLET FILTER, FITTING ASSEMBLY, & SPRINGS.
		110827-003	HYDRAULIC UNLOADER ASSEMBLY, 0-200 PSI USE WITH DIESTER OR PHOSPHATE ESTER SYNTHETIC BASED LUBRICANTS.

116115-998 "LVD" CONTROL GROUP (60-200 PSI)			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	1642	TUBE FITTING, ELBOW, 1/4" TUBE X 1/8" NPT
2	1	110827-001	HYDRAULIC UNLOADER ASSEMBLY, 0-200 PSI
3	5 FT	110515-025	COPPER TUBE, 1/4" O.D.
4	1	9353	TUBE FITTING, 1/4" TUBE X 1/4" FEMALE NPT
5	1	6194X2	CHECK VALVE
6	1	6317	STUD, MOUNTING
7	1	160047-J05	SET SCREW
8	1	110998-998	PILOT VALVE, KNOB, 60-200 CUSTOM SET
9	1	126015-001	NIPPLE, SCH40, GALV, 1/8" X CLOSE
10	2	2708	TUBE FITTING, ELBOW, 1/4" TUBE X 1/4" NPT
11	1	6150	CROSS, BRASS, 1/4"
12	1	2616	TUBE FITTING, 3/8" TUBE X 1/4" NPT
13	1	1665	TUBE FITTING, TEE, 1/4" TUBE X 1/8" NPT
MAINTENANCE PARTS			
		6317X1	MOUNTING STUD KIT INCLUDES ITEMS 6 & 7 (1 EACH)
		113225	HYDRAULIC UNLOADER REPAIR KIT INCLUDES DIAPHRAGM, STEM ASSEMBLY, INLET FILTER, FITTING ASSEMBLY, & SPRINGS.
		110827-003	HYDRAULIC UNLOADER ASSEMBLY, 0-200 PSI USE WITH DIESTER OR PHOSPHATE ESTER SYNTHETIC BASED LUBRICANTS.

* See page 24 for optional pilot valves that must be used with respective pressure ranges.

CONTROL GROUPS 116115-999 & 116115-000

(control version LVD)

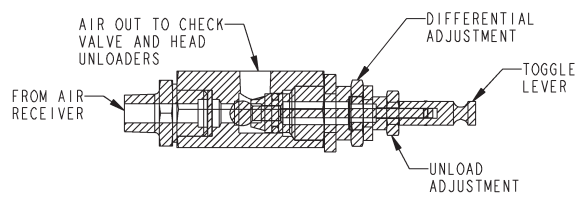


116115-165 "LVD" CONTROL GROUP (165 PSI)			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	1642	TUBE FITTING, ELBOW, 1/4" TUBE X 1/8" NPT
2	1	110827-001	HYDRAULIC UNLOADER ASSEMBLY, 0-200 PSI
3	5 FT	110515-025	COPPER TUBE, 1/4" O.D.
4	1	9353	TUBE FITTING, 1/4" TUBE X 1/4" FEMALE NPT
5	1	6194X2	CHECK VALVE
6	1	6317	STUD, MOUNTING
7	1	160047-J05	SET SCREW
8	1	110998-165A	PILOT VALVE, KNOB, 155-165 PRESET
9	1	126015-001	NIPPLE, SCH40, GALV, 1/8" X CLOSE
10	2	2708	TUBE FITTING, ELBOW, 1/4" TUBE X 1/4" NPT
11	1	6150	CROSS, BRASS, 1/4"
12	1	2616	TUBE FITTING, 3/8" TUBE X 1/4" NPT
13	1	1665	TUBE FITTING, TEE, 1/4" TUBE X 1/8" NPT
MAINTENANCE PARTS			
		6317X1	MOUNTING STUD KIT INCLUDES ITEMS 6 & 7 (1 EACH)
		113225	HYDRAULIC UNLOADER REPAIR KIT INCLUDES DIAPHRAGM, STEM ASSEMBLY, INLET FILTER, FITTING ASSEMBLY, & SPRINGS.
		110827-003	HYDRAULIC UNLOADER ASSEMBLY, 0-200 PSI USE WITH DIESTER OR PHOSPHATE ESTER SYNTHETIC BASED LUBRICANTS.

116115-998 "LVD" CONTROL GROUP (60-200 PSI)			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	1642	TUBE FITTING, ELBOW, 1/4" TUBE X 1/8" NPT
2	1	110827-001	HYDRAULIC UNLOADER ASSEMBLY, 0-200 PSI
3	5 FT	110515-025	COPPER TUBE, 1/4" O.D.
4	1	9353	TUBE FITTING, 1/4" TUBE X 1/4" FEMALE NPT
5	1	6194X2	CHECK VALVE
6	1	6317	STUD, MOUNTING
7	1	160047-J05	SET SCREW
8	1	110998-998	PILOT VALVE, KNOB, 60-200 CUSTOM SET
9	1	126015-001	NIPPLE, SCH40, GALV, 1/8" X CLOSE
10	2	2708	TUBE FITTING, ELBOW, 1/4" TUBE X 1/4" NPT
11	1	6150	CROSS, BRASS, 1/4"
12	1	2616	TUBE FITTING, 3/8" TUBE X 1/4" NPT
13	1	1665	TUBE FITTING, TEE, 1/4" TUBE X 1/8" NPT
MAINTENANCE PARTS			
		6317X1	MOUNTING STUD KIT INCLUDES ITEMS 6 & 7 (1 EACH)
		113225	HYDRAULIC UNLOADER REPAIR KIT INCLUDES DIAPHRAGM, STEM ASSEMBLY, INLET FILTER, FITTING ASSEMBLY, & SPRINGS.
		110827-003	HYDRAULIC UNLOADER ASSEMBLY, 0-200 PSI USE WITH DIESTER OR PHOSPHATE ESTER SYNTHETIC BASED LUBRICANTS.

* See page 24 for optional pilot valves that must be used with respective pressure ranges.

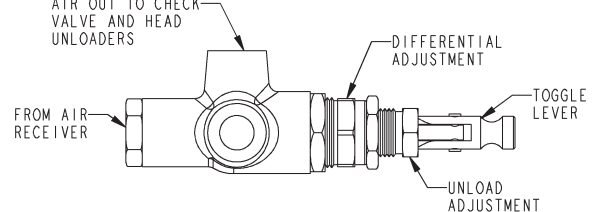
PILOT VALVES



113708 SERIES PILOT VALVE (CONTROL VERSION "LS")

PART NUMBER	LOAD PSI	UNLOAD PSI
113708-175	165	175
113708-998	*	60-200 ADJUSTABLE

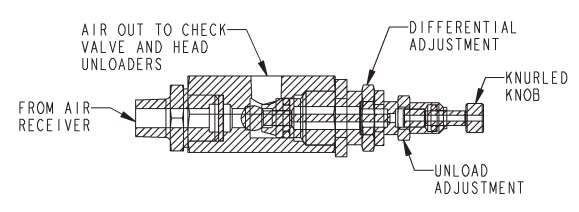
* CUSTOMER TO SET, SEE DIFFERENTIAL SETTING CHART. ADDITIONAL FACTORY PRESET VALVES ARE AVAILABLE UPON REQUEST.



110832 SERIES PILOT VALVE (CONTROL VERSION "LS")

PART NUMBER	LOAD PSI	UNLOAD PSI
110832-999	*	201-400 ADJUSTABLE
110832-000	*	401-500 ADJUSTABLE

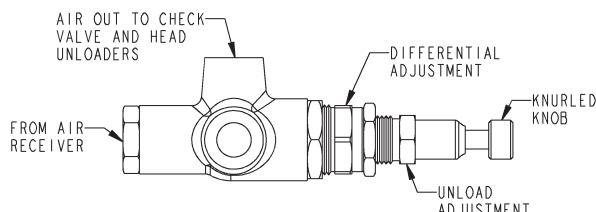
* CUSTOMER TO SET, SEE DIFFERENTIAL SETTING CHART. ADDITIONAL FACTORY PRESET VALVES ARE AVAILABLE UPON REQUEST.



110998 SERIES PILOT VALVE (CONTROL VERSION "LVD")

PART NUMBER	LOAD PSI	UNLOAD PSI
110998-165A	155	165
110998-998	*	60-200 ADJUSTABLE

* CUSTOMER TO SET, SEE DIFFERENTIAL SETTING CHART. ADDITIONAL FACTORY PRESET VALVES ARE AVAILABLE UPON REQUEST.



111423-001 & 111423-002 SERIES PILOT VALVE (CONTROL VERSION "LVD")

PART NUMBER	LOAD PSI	UNLOAD PSI
111423-001	*	201-400 ADJUSTABLE
111423-002	*	401-500 ADJUSTABLE

* CUSTOMER TO SET, SEE DIFFERENTIAL SETTING CHART. ADDITIONAL FACTORY PRESET VALVES ARE AVAILABLE UPON REQUEST.

DIFFERENTIAL SETTING CHART		
APPLIES TO 113708 AND 110998 SERIES PILOT VALVES ONLY.		
UNLOAD (PSI)	MIN. DIF. (PSI)	MAX. DIF. (PSI)
60	3	10
100	4	20
150	5	30
175	5	45

PILOT VALVE REPAIR KIT 110832-051
FOR 110832 AND 111423 SERIES PILOT VALVES ONLY

110832-051 INCLUDES SCREENS, FILTER, O-RING, BALL, RIVET PIN, AND DISCS AND O-RING FOR 6194X SERIES CHECK VALVES. CUSTOMER MUST ORDER SPRING WHEN ORDERING REPAIR KIT (SEE BELOW)

PART #	QTY	DESCRIPTION
110832-054	1	REPLACEMENT SPRING, PILOT VALVE, 201-400 PSI (GREEN)
110832-055	1	REPLACEMENT SPRING, PILOT VALVE, 401-500 PSI (BLACK)

WARNING !
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.

DIFFERENTIAL SETTING CHART			
APPLIES TO 110832 AND 111423 SERIES PILOT VALVES ONLY.			
SPRING NUMBER	UNLOAD (PSI)	MIN. DIF. (PSI)	MAX. DIF. (PSI)
110832-054	201	5	25
"	250	10	30
"	300	10	40
"	400	30	50
110832-055	500	40	75

SUCTION VALVE UNLOADER ASSEMBLIES

Description

The Quincy suction valve unloader assembly consists of unloading arrangements on the suction valves, having a plunger to contact the suction valve disc and an unloader pilot valve (part no.s 113708-***, and 110998-***, 110832-*** & 111423-***) to automatically regulate the passing of receiver pressure to the unloading arrangement.

Application

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.

Operation

Unloading occurs when receiver pressure is sufficient to overcome pilot valve spring pressure. The check ball is then unseated, allowing receiver pressure to pass to the unloading arrangements. The compressor will run unloaded until the receiver pressure drops to a predetermined level. At this time, the action of the ball is reversed, shutting off receiver pressure to the unloader arrangement and venting the unloader to atmosphere. This allows the compressor to load. The drive, either electric motor or combustion engine, runs continuously and must be started and stopped manually.

Pilot valves 110998-*** & 111423-*** can be locked out, for models equipped with dual control, to provide automatic start/stop operation. The knurled knob at the top of the pilot can be turned clockwise, until it stops, to lock it out. A pressure switch is required to stop the motor. Failure to use a pressure switch, with the pilot valve locked out, could result in unsafe conditions.

WARNING !

A pressure switch must be incorporated whenever pilot valve 110998-*** or 111423-*** 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.

Installation

The pilot valve is to be connected to the air receiver using a minimum of 3/8" o.d. copper tube. Compress-

sors in the field, not equipped with a suction valve unloader assembly, can be converted to constant speed. Consult your local Quincy distributor for assistance with conversion procedures.

Service

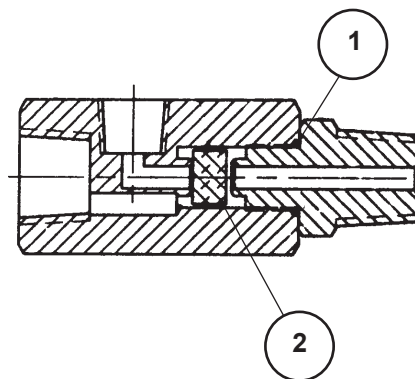
Periodically check the filter & screens in the inlet of the pilot valve to make sure they are free of obstructions. If they become clogged, remove and clean or replace. Inspect the "o"ring located in the opposite end of the pilot valve body for wear or damage; replace if necessary.

Adjustment

The unloading pressure is adjustable and is regulated by turning the hex nut (marked "unload adj." in cross sectional illustrations of pilot valves). 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 hex nut (marked "differential adj." in the cross sectional illustrations of the pilot valves). Increase the differential pressure by turning the hex nut clockwise - decrease by turning counterclockwise. Tighten the locknuts after adjustment.

CHECK VALVE ASSEMBLIES



Check Valve Assembly Replacement Parts

Item #	Qty.	Part Number	Description
6194X2 Check Valve Assembly			
1	1	123157-010	"o"ring
2	1	6196-002	disc
6194X3 Check Valve Assembly			
(for use with diester or phosphate ester synthetic lubricants)			
1	1	22749-010	"o"ring
2	1	6196-003	disc

Head Kit K310G			
Item #	Qty.	Part Number	Description
	4	1552-002	valve disc
	2	1202	valve spring
	2	1368	valve spring
	4	1554	valve gasket
	4	1556	gasket, valve
	2	1855	diaphragm
	1	5698	gasket, cylinder to head
	1	110377E075	air filter element

Overhaul Kit K310H			
Item #	Qty.	Part Number	Description
	2	2824PR	con-rod inserts (1 pair/standard)
	1	110525	ring set (standard)
	1	6592	ring set, side sealer, (standard)
	1	5512	gasket set
	2	1202	valve spring
	2	1368	valve spring
	1	110377E075	air filter element
	4	1552-002	valve disc
	1	110610	"o"ring kit

Pin Kit K310C (press fit)			
Item #	Qty.	Part Number	Description
	1	1937X	pin assembly
	1	1264	piston pin
	1	6445SR	bushing
	1	6440SR	bushing

Pin Kit K310D (float fit)			
Item #	Qty.	Part Number	Description
	1	110190-011	piston pin
	1	110190-007	piston pin
	1	6440SR	bushing
	1	6445SR	bushing
	2	8648	retaining ring

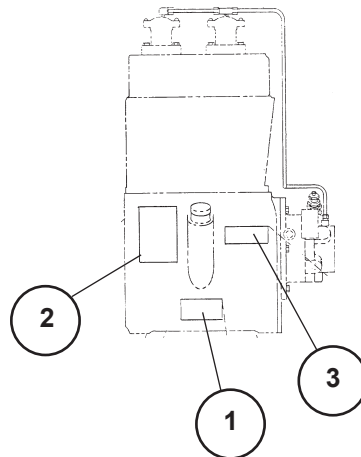
Basic Compressor Repair Kit 110823A310			
Item #	Qty.	Part Number	Description
	1	110190-007	pin, piston
	1	110190-011	piston pin
	1	110377E075	air filter element
	1	110773	"o"ring kit
	1	110814	oil filter
	2	1368	valve spring
	4	1552-002	valve disc
	1	2523	bearing cup
	1	2585	bearing cone
	2	2824PR	inserts (pair), con rod bearing
	1	4018	bearing cup
	1	4019	bearing cone
	1	5512	gasket set
	1	6440SR	bushing
	1	6445SR	bushing
	1	6592	side sealer ring set (standard)
	2	1202	valve spring
	1	110525	ring set (standard)

V.I.P. Kit 110516-310			
Item #	Qty.	Part Number	Description
	1	110822	oil pressure gauge
	2	1553X11	replacement discharge valve
		assy	
	2	1855	diaphragm
	2	4610X3	replacement suction valve assy
	1	5512	gasket set
	2	6283	hydraulic unloader filter

Gasket Set 5512			
Item #	Qty.	Part Number	Description
	4	1554	valve gasket
	4	1556	valve gasket
	1	1594	gasket
	1	1598	gasket, inspection plate
	2	1832	shim, bearing adj., .005, steel
	2	1832A	shim, bearing adj., .007, steel
	1	1832B	shim, bearing adj., .020, steel
	6	1832C	shim, bearing adj., .005, paper
	2	1832D	shim, bearing adj., .002 steel
	1	5698	gasket, cylinder to head
	1	6274	gasket, bearing carrier
	1	6275	gasket, inlet screw
	1	6313	gasket, inlet screw
	2	5697	gasket, intercooler

Recommended Spare Parts			
Item #	Qty.	Part Number	Description
	2	4610X3	replacement suction valve assy.
	2	1553X11	replacement discharge valve assy.
	1	110822	oil pressure gauge
	1	160078	oil pump repair kit
	1	5512	gasket set
	1	113225	hydraulic unloader repair kit
	2	2824PR	connecting rod inserts (1 pair)
	2	1855	unloader diaphragm
	1	110832-051	pilot repair kit
	1	110377E100	air filter element

DECALS



Decals for QR 310 Basic Compressor			
Item #	Qty.	Part Number	Description
1	1	110831	serial number & nameplate
2	1	127889-A	decal, CAUTION!/manual/"Failure to follow..."
3	1	127889-B	decal, DANGER!/ "Air used for breathing..."
* Not sold separate; order 127889.			

TYPICAL UNIT REPAIR PARTS LIST

The parts listed here are for standard QR 310 (up to 175 PSI) units and may or may not be applicable to custom 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.

(QR 310 simplex - horizontal tank - electric motor)

Qty	Part Number	Part Number	Part Number	Description
	60 gal.	80 gal.		
1	113891-200	113268-200		tank (200 PSI max. working pressure)
1	n/a	n/a		* top plate
1	2713	2713		tank drain valve
1	111136-075	111136-075		ball valve
1	110514-300	110514-300		pressure gauge
1	110512-003	110512-003		** pressure switch (135-175 PSI)
1	110513-200	110513-200		pressure relief valve (200 PSI)
2.5 ft.	110515-050	110515-050		discharge tube (1/2" copper tube to be formed by customer)
2	110948-050	110948-050		compression fittings
	2 h.p.			
1	110258B057			drive belt
1	3597-78			motor pulley
	n/a			motor pulley bushing
1	110945K002			belt guard assembly
	115/230v, 1Ø	200v, 3Ø	230/460v, 3Ø	
1	4002	8097	124517-002	2 h.p. motor (ODP)

(QR 310 duplex - horizontal tank - electric motor)

Qty	Part Number	Part Number	Part Number	Description
	80 gal.			
1	113471-200			tank (200 PSI max. working pressure)
2	n/a			* top plate
1	2713			tank drain valve
1	111136-075			ball valve
1	110514-300			pressure gauge
2	110512-003			** pressure switch (135-175 PSI)
1	110513-200			pressure relief valve (200 PSI)
5 ft.	110515-075			! discharge tube (1/2" copper tube to be formed by customer)
4	110948-050			compression fittings
	2 h.p.			
2	110258B057			drive belt
2	3597-78			motor pulley
	n/a			motor pulley bushing
2	110945K002			belt guard assembly
	115/230v, 1Ø	200v, 3Ø	230/460v, 3Ø	
2	4002	8097	124517-002	2 h.p. motor (ODP)

* 113281 top plate is used for all QR 310 base mounted electric motor driven units.

** 2298-175 pressure switch is used on standard QR 310 base mounted electric motor driven units.

! Pre-formed discharge tubes are available. Contact factory with model & tank size information.

TYPICAL UNIT REPAIR PARTS LIST

The parts listed here are for standard QR 310 (up to 175 PSI) units and may or may not be applicable to custom 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.

(QR 310 vertical tank - electric motor)

Qty	Part Number	Part Number	Part Number	Description
60 gal.				
1	113267P200			tank (200 PSI max. working pressure)
1	110425-025			tank drain valve
1	111136-075			ball valve
1	110514-300			pressure gauge
1	110512-003			pressure switch (135-175 PSI)
1	110513-200			pressure relief valve (200 PSI)
2.5 ft.	110515-050			! discharge tube (3/4" copper tube to be formed by customer)
2	110948-050			compression fittings
2 h.p.				
1	110258B057			drive belt
1	3597-78			motor pulley
	n/a			motor pulley bushing
1	110945K002			belt guard assembly
115/230v, 1Ø 200v, 3Ø 230/460v, 3Ø				
1	4002	8097	124517-002	2 h.p. motor (ODP)

! Pre-formed discharge tubes are available. Contact factory with model & tank size information.

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



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