

QR-25[®] Series Model 350

Parts Manual
Record of Change 108

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. 50217-108

August 2010 Edition

INTRODUCTION

This manual provides information for the following QR-25 Series, Model 350 (Record of Change 108) 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 PSIG continuous pressure capability (*201 to 350 PSI intermittent pressure capability with proper configuration; consult factory*). The Model 350 has a 6" low pressure piston bore and a 3.25" high pressure piston bore and a 3.5" stroke and can be run at 400-940 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 November 2007:
The compressor sheave was changed from a three-groove design to a four-groove design.

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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.

QUIN-CIP® LUBRICANT

Refer to the chart below to order QUIN-CIP compressor 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
350	4 qts. & 24 oz. (4.5 lit.)	Add 10 oz. (296 ml.)

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

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 OSHA1910.134 or FDA21 CFR 178.3570 regulations. Failure to do so may cause severe injury or death.

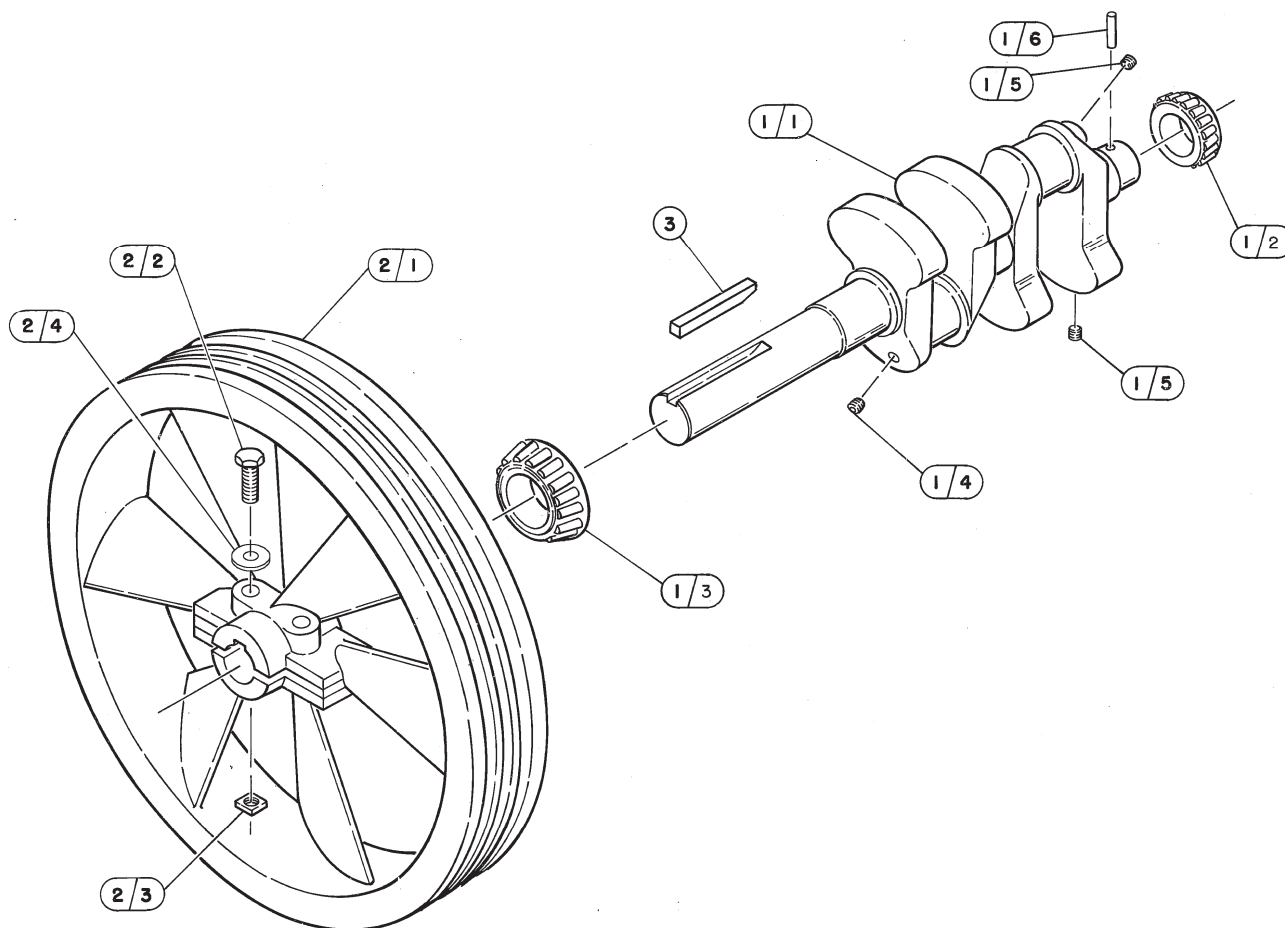
CRANKSHAFT GROUP 110629

Item Number	Qty.	Part Number	Description
1	1	110221-001	crankshaft assembly
1.1	1	110220-001	crankshaft (N.S.S.; order 110221-001)
1.2	1	2788	bearing cone
1.3	1	40775	bearing cone
1.4	1	110234	orifice, 1/8 npt
1.5	2	2755S	pipe plug, 1/4 npt
1.6	1	110705-F17	roll pin, 3/16 x 1.38
2	1	110523X	sheave assembly
2.1	1	110523	sheave, 19.5", 4G, B sect., CCW (N.S.S.; order 110523X)
2.2	2	110983-N22	hex. screw, 1/2-13 unc x 3.50, grade 8 (@ 90 ft.-lbs.)
2.3	2	116124-N02	square nut, 1/2-13 unc
2.4	2	110428N050	flatwasher, 1/2
3	1	1466	taper key

N.S.S. = Not Sold Separate

@ Indicates torque value in foot pounds (dry threads)

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



CRANKCASE GROUP 110628

Item Number	Qty.	Part Number	Description
1	1	6904X	crankcase assembly includes:
1.1	1	6904	crankcase
1.2	1	3720	bearing cup
2	1	2057	pipe plug, 1/2 npt
3	*	1383	bearing adjustment shim, .005 steel
4	*	1383A	bearing adjustment shim, .007 steel
5	*	1383B	bearing adjustment shim, .020 steel
6	*	1383D	bearing adjustment shim, .002 steel
7	1	6930	adjustment plate (.0015 / .003 crankshaft end play)
8	4	123478-L12	hex. screw, 3/8-16 unc x 1.00, grade 5 (@ 30 ft.-lbs.)
9	2	1315	inspection plate gasket
10	1	1249-1	inspection plate
11	1	6849-2	inspection plate
12	12	123478-K12	hex. screw, 5/16-18 unc x 1.00, grade 5 (@ 12 ft.-lbs.)
13	1	111876-2	dipstick
14	1	5783	breather ball
15	1	5932	drive pin
16	12	110428N031	flatwasher, 5/16
17	1	112033-908	"o"ring, 3/32 wide x .82 o.d.

Maintenance Parts

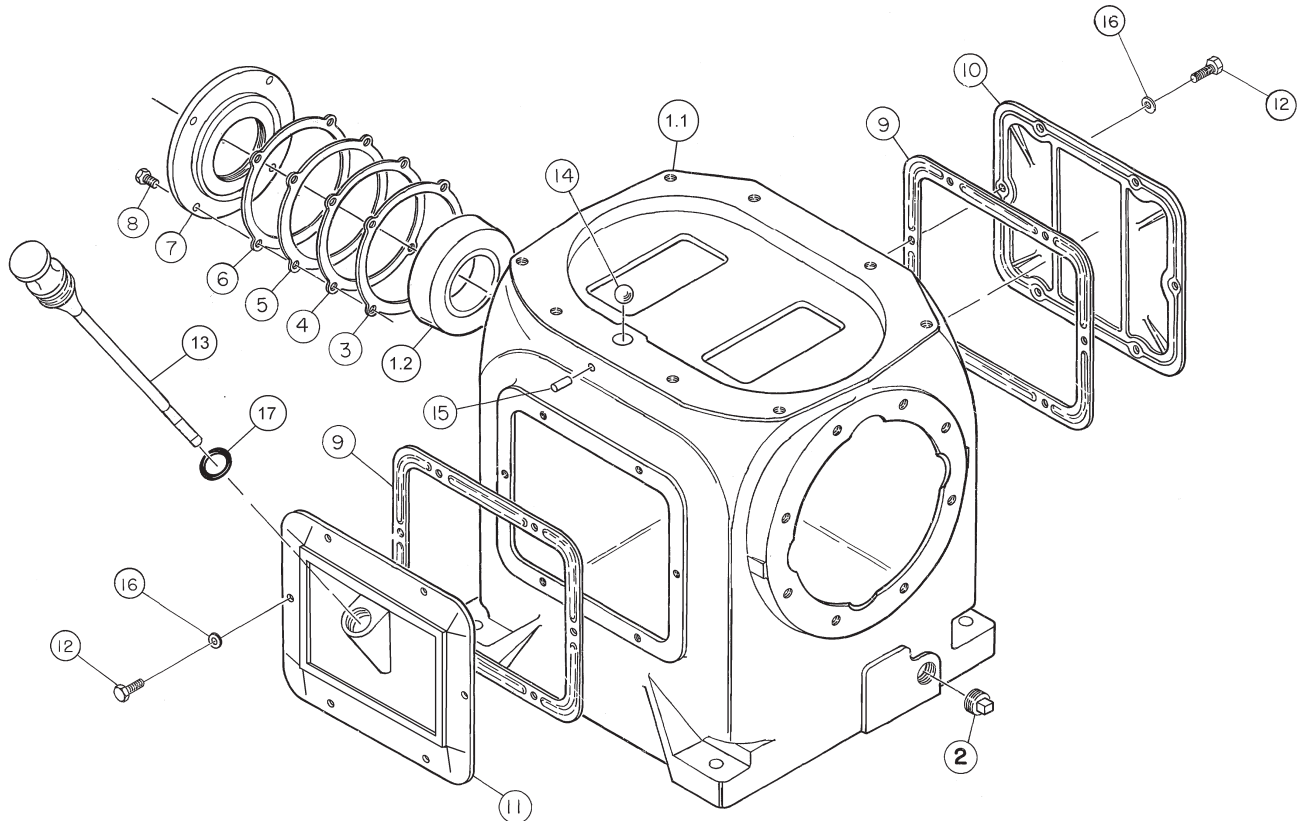
1 **6930-1X**

Replacement Adjustment Plate Assembly
includes adjustment plate & oil seal

* Quantity as required

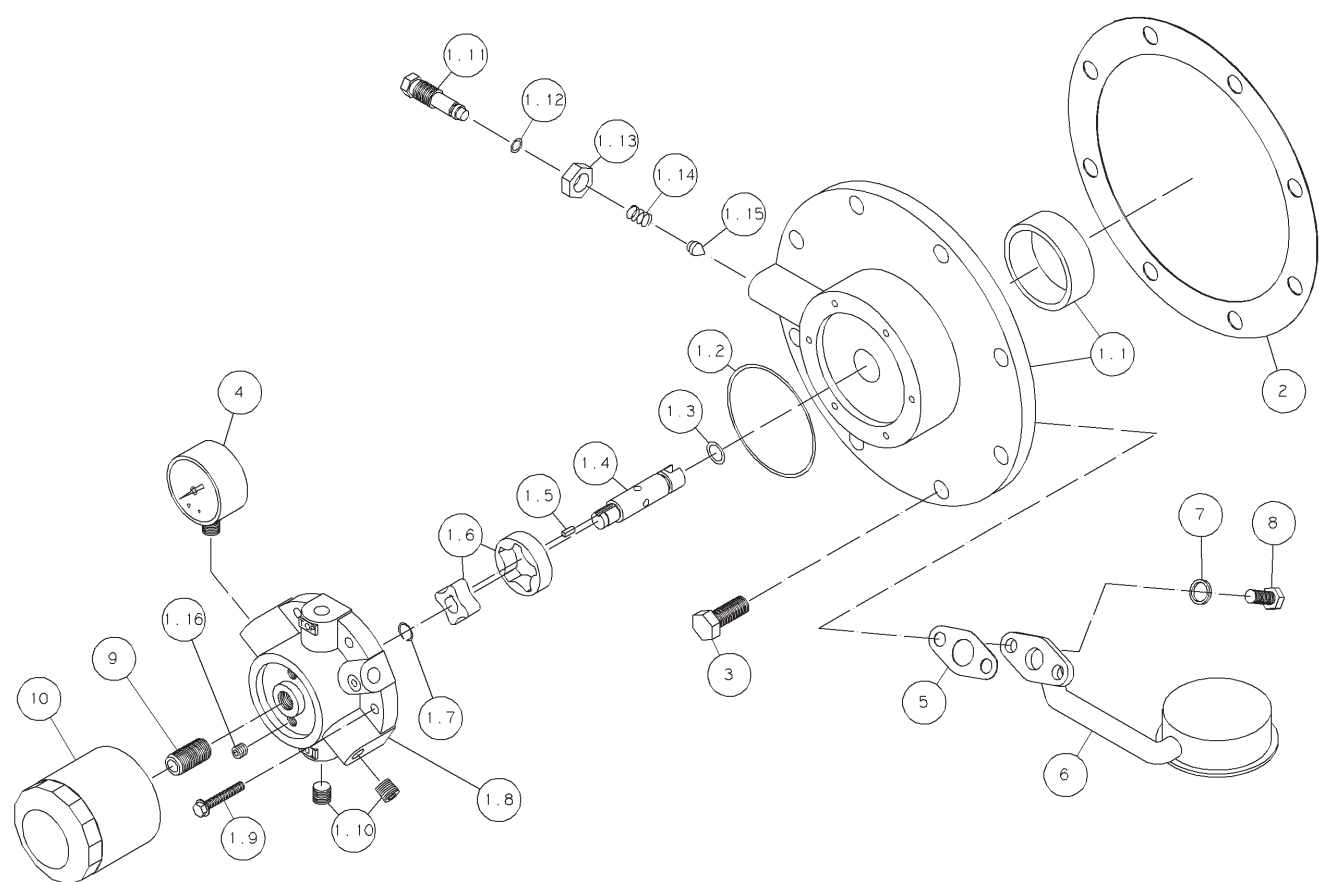
@ Indicates torque value (dry threads). Tighten multiple bolts, capscrews & hex nuts in a criss-cross or alternating pattern. Bring each fastener to the recommended torque specification in even increments.

N.S.S. = Not Sold Separate



BEARING CARRIER GROUP 110820-001

(with oil filter)



BEARING CARRIER GROUP 110820-001

(with oil filter)

Item Number	Qty.	Part Number	Description
†	1	110812-003	bearing carrier assembly
1.1	1	110812	bearing carrier
	1	2720	includes: bearing cup
	2	160005	bronze 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	160002-001	bearing carrier 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	1	2755S	pipe plug, 1/8 npt
2	1	5502	gasket
3	8	123478-L12	hex. screw, 3/8-16 unc x 1.00, grade 5 (@ 30 ft.-lbs.)
§ 4	1	110822	oil pressure gauge
5	1	6679	gasket
6	1	110659	oil pickup tube
7	2	123115-06C	lockwasher, 3/8
8	2	123478-L11	hex. screw, 3/8-16 unc x .88, grade 5 (@ 30 ft.-lbs.)
9	1	110825	stud
Maintenance Parts			
†0	1	110814-001	oil filter (6 pack)
*		160079	Oil Pump Repair Kit includes "o"rings, bearing carrier driveshaft, driveshaft key, pump gerotor and retaining ring
*		110812X003	Replacement Bearing Carrier Assembly includes bearing carrier assembly, oil filter, oil filter stud, bearing carrier gasket & oil inlet bracket gasket

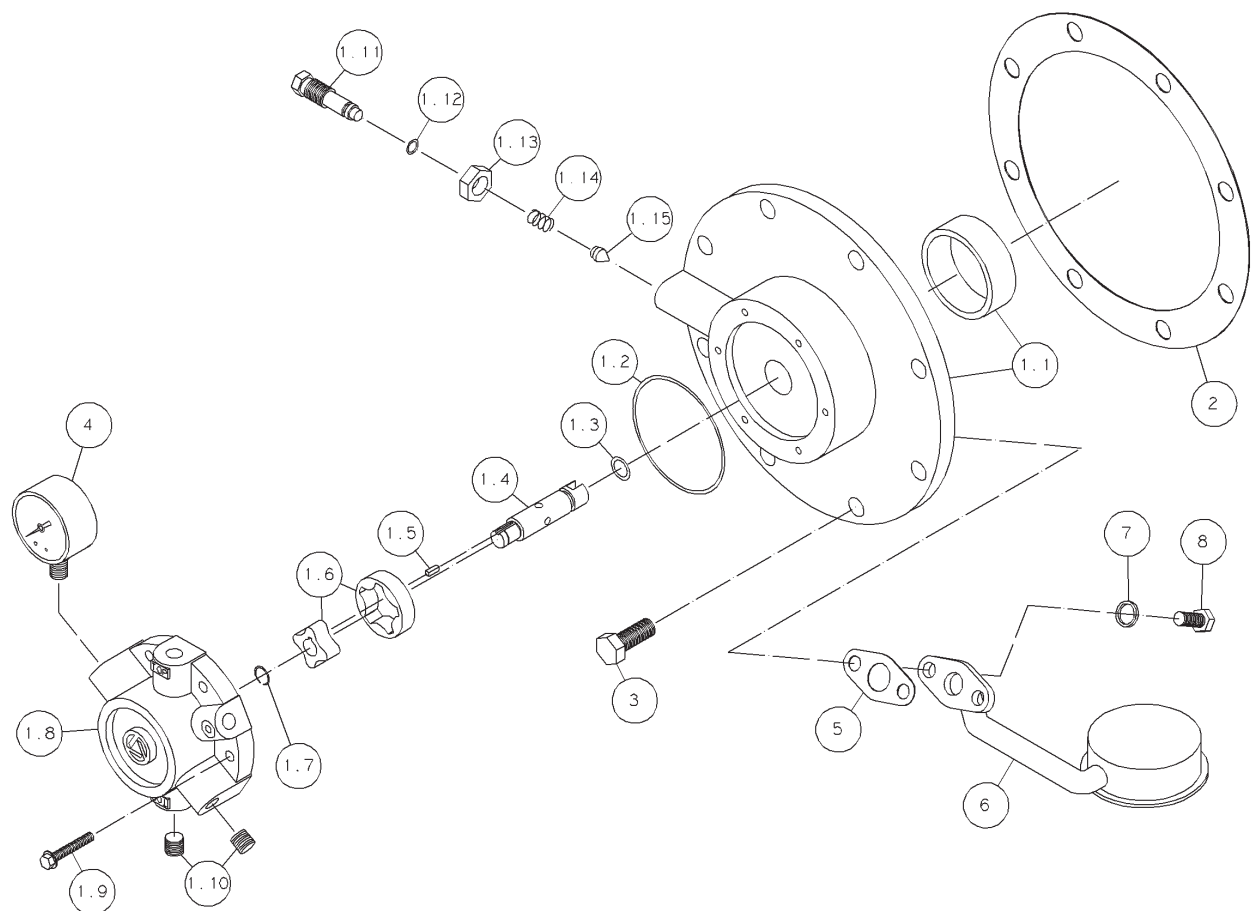
@ Indicates torque value (dry threads). Tighten multiple bolts, capscrews & hex nuts in a criss-cross or alternating pattern. Bring each fastener to the recommended torque specification in even increments.

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

§ Install with Teflon® tape.

BEARING CARRIER GROUP 110820

(less oil filter)



BEARING CARRIER GROUP 110820

(less oil filter)

Item Number	Qty.	Part Number	Description
1	1	110812-002	bearing carrier assembly
1.1	1	110812	bearing carrier
	1	2720	includes: bearing cup
	2	160005	bronze 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	160002-001	bearing carrier driveshaft
1.5	1	160075-001	driveshaft key
1.6	1	160003	pump gerotor
1.7	1	6285	retaining ring
1.8	1	110813	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
1.11	1	5489	adjustment screw
* 1.12	1	123157-011	"o"ring, 1/16 wide x .44 o.d. (oil pressure adjustment screw)
1.13	1	124369-P02	jamnut, 9/16-18 unf
1.14	1	1160	spring
1.15	1	112857	needle valve
2	1	5502	bearing carrier gasket
3	8	123478-L12	hex. screw, 3/8-16 unc x 1.00, grade 5 (@ 30 ft.-lbs.)
§ 4	1	110822	oil pressure gauge
5	1	6679	gasket, oil inlet bracket
6	1	110659	oil pickup tube
7	2	123115-06C	lockwasher, 3/8
8	2	123478-L11	hex. screw, 3/8-16 unc x .88, grade 5 (@ 30 ft.-lbs.)
Maintenance Parts			
*		160079	Oil Pump Repair Kit includes "o"rings, bearing carrier driveshaft, driveshaft key, pump gerotor and retaining ring
		110812X002	Replacement Bearing Carrier Assembly includes bearing carrier assembly, oil filter, oil filter stud, bearing carrier gasket & oil inlet bracket 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.
		160079-001	Oil Pump Repair Kit includes "o"rings, bearing carrier driveshaft, driveshaft key, pump gerotor and retaining ring

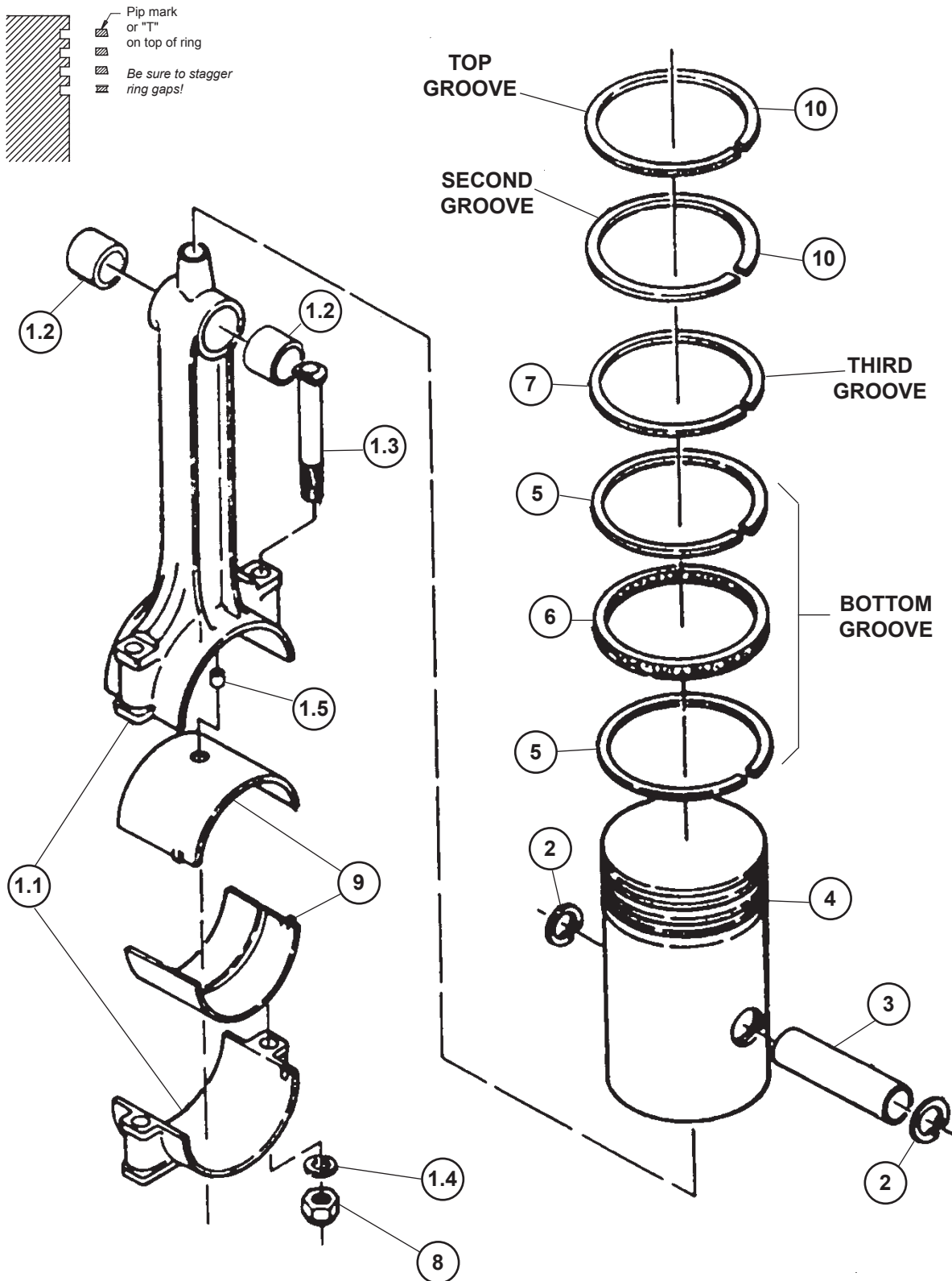
@ Indicates torque value (dry threads). Tighten multiple bolts, capscrews & hex nuts in a criss-cross or alternating pattern. Bring each fastener to the recommended torque specification in even increments.

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

§ Install with Teflon® tape.

CONNECTING ROD & PISTON GROUP 110463

(high pressure)



CONNECTING ROD & PISTON GROUP 110463

(high pressure)

Item Number	Qty.	Part Number	Description
1	1	110804	connecting rod assembly (N.S.S.; order 110804X)
1.1	1	110802	connecting rod (N.S.S.; order 110804X)
1.2	2	110799-010	needle bearing
1.3	2	1344	connecting rod bolt, 7/16-20 unc x 3.25
1.4	2	1319	connecting rod bolt washer
1.5	1	110801-001	plug orifice
2	2	8648	retaining ring
3	1	110190-004	piston pin
4	1	5846-001	piston, HP
5	2	112782	oil ring rail
6	1	112783	ring spacer
7	1	6997	piston ring
8	2	124471-M08	locknut, 7/16-20 unf (@ 40 ft.-lbs.)
9	2	6656	connecting rod insert (sold in pairs only; see maintenance parts)
10	2	111845	piston ring
Maintenance Parts			
9	1	6656PR	connecting rod inserts (1 pair, standard size)
9	1	6656-010PR	connecting rod inserts (1 pair, .010 undersize)
4	1	5846-011	piston, hp (.010 oversize)
4	1	5846-021	piston, hp (.020 oversize)
		8168A	Piston Ring Set, HP (Standard) No Color Code includes piston rings, piston rails & ring spacer
		5788-010	Piston Ring Set, HP (.010 Oversize) (L. Blue) includes all rings necessary for installing .010 oversize piston
		5788-020	Piston Ring Set, HP (.020 Oversize) (Yellow) includes all rings necessary for installing .020 oversize piston
		5846X001	Piston Assembly, HP (Standard w/ side sealer) includes ring set, piston, piston pin & retaining ring
		5846X002	Piston Assembly, HP (Standard w/o side sealer) includes ring set, piston, piston pin & retaining ring
		5846X011	Piston Assembly, HP (.010 Oversize) includes ring set, piston, piston pin & retaining ring
		5846X021	Piston Assembly, HP (.020 Oversize) includes ring set, piston, piston pin & retaining ring
		110804X	Replacement Connecting Rod Assembly (Standard) includes connecting rod assembly, connecting rod inserts & locknuts
		110804X010	Replacement Connecting Rod Assembly (.010 Undersize) includes connecting rod assembly, connecting rod inserts & locknuts

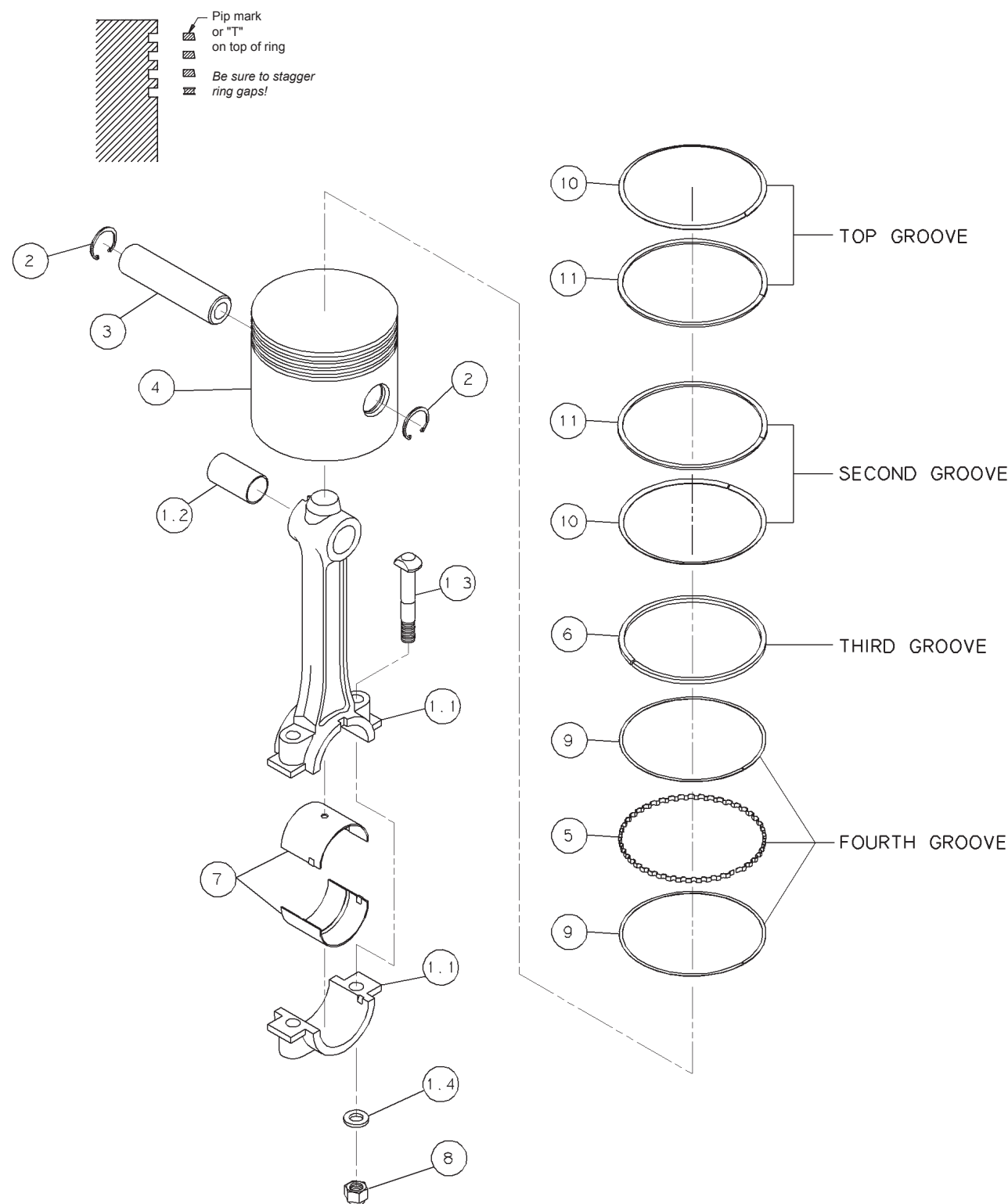
@ Indicates torque value (dry threads). Tighten multiple bolts, capscrews & hex nuts in a criss-cross or alternating pattern. Bring each fastener to the recommended torque specification in even increments.

* One pair required for each connecting rod assembly.

N.S.S. = Not Sold Separate

CONNECTING ROD & PISTON GROUP 110462

(low pressure)



CONNECTING ROD & PISTON GROUP 110462

(low pressure)

Item Number	Qty.	Part Number	Description
1	1	40081	connecting rod assembly (N.S.S.; order 6655X)
1.1	1	110803	connecting rod (N.S.S.; order 6655X)
1.2	1	6443	bushing, connecting rod (N.S.S.; order 6443SR)
1.3	2	1344	connecting rod bolt, 7/16-20 unc x 3.25
1.4	2	1319	connecting rod bolt washer
2	2	8648	retaining ring
3	1	8647	piston pin
4	1	8640	piston, LP
5	1	112749	ring spacer
6	1	9146	piston ring
7	2	6656	connecting rod insert (sold in pairs only; see maintenance parts)
8	2	124471-M08	locknut, 7/16-20 unf (@ 40 ft.-lbs.)
9	2	112748	oil ring rail
10	2	6994	spring
11	2	6992	piston ring
Maintenance Parts			
7	1	6656PR	connecting rod inserts (1 pair, standard size)
7	1	6656-010PR	connecting rod inserts (1 pair, .010 undersize)
4	1	8640-010	piston, LP (.010 oversize)
4	1	8640-020	piston, LP (.020 oversize)
	1	7527	Piston Ring Set, LP includes piston rings, piston rails, piston spring & spacer
	1	5787-010	Piston Ring Set, LP includes all rings necessary for installing .010 oversize piston
	1	5787-020	Piston Ring Set, LP includes all rings necessary for installing .020 oversize piston
		8640X	Piston Assembly, LP (Standard) includes ring set, piston, piston pin & retaining ring
		8640X010	Piston Assembly, LP (.010 Oversize) includes ring set, piston, piston pin & retaining rings
		8640X020	Piston Assembly, LP (.020 Oversize) includes ring set, piston, piston pin & retaining rings
		6655X	Replacement Connecting Rod Assembly (Standard) includes connecting rod assembly, connecting rod inserts & locknuts
		6655XUS	Replacement Connecting Rod Assembly (.010 Undersize) includes connecting rod assembly, connecting rod 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.

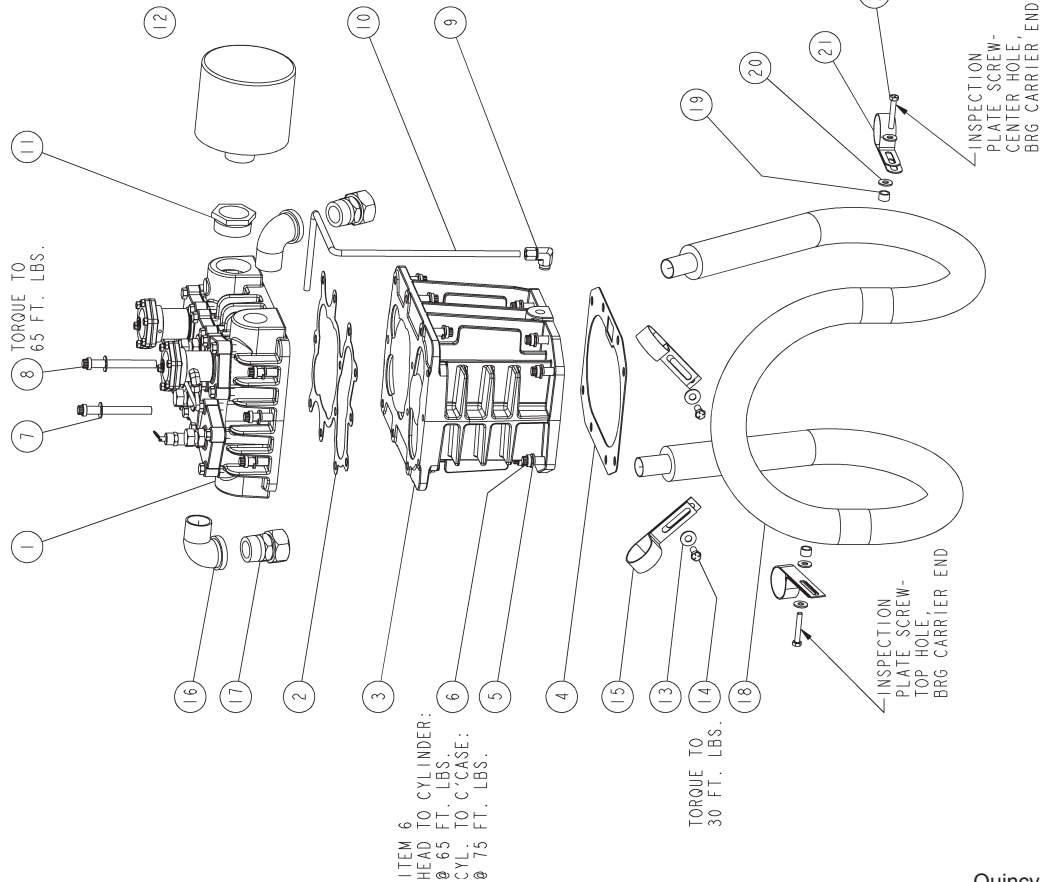
N.S.S. = Not Sold Separate

CYLINDER & HEAD GROUP 115348-002

(control versions L, LS, & LVD)

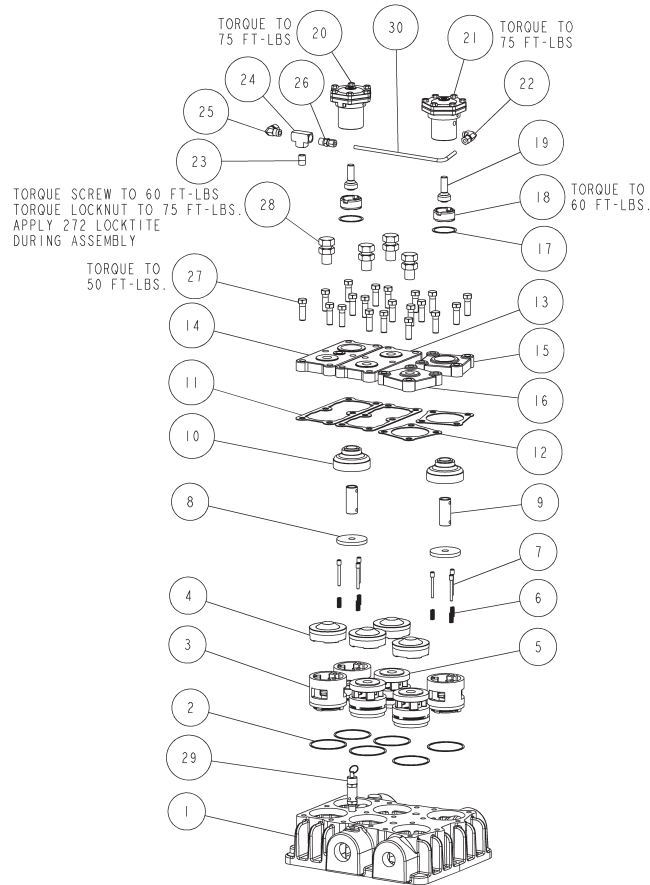
ITEM	PART NUMBER	QTY	DESCRIPTION
1	115343UU	1	HEAD ASSEMBLY, UNLOADERS 350
2	7403	1	GASKET
3	7395-1	1	CYLINDER
4	5827-2	1	GASKET
5	123115-08C	18	LOCKWASHER
6	90386-N15	18	12PT SCREW, 1/2-13 UNC X 1.50, GRADE 8
7	1478-1	2	FLATWASHER
8	5863	2	COUNTERBORE SCREW, 1/2-13 UNC X 4.25, GRADE 8
9	2728	1	TUBE FITTING, 90° ELBOW, 3/8T x 3/8MP
10	110515-038	1	TUBE, COPPER 3/8"
11	6064	1	PIPE BUSHING, 2 NPT X 1-1/2 NPT
12	110377SI50	1	HOODED AIR FILTER/SILENCER
13	110428W038	2	FLAT WASHER, 3/8
14	123478-L11	2	HEX SCREW, 3/8-16 UNC X .88, GRADE 5
15	114574-002	3	CLAMP, INTERCOOLER
16	120308	2	PIPE ELBOW, 90° STREET, 1-1/4 NPT x 1-1/4 NPT
17	23225	2	TUBE FITTING, MALE CONNECTOR, 1-1/4 TUBE X 1-1/4 NPT
18	115521	1	INTERCOOLER
19	110613-001	2	SPACER
20	110428W031	4	FLAT WASHER, 5/16
21	114574-003	1	INTERCOOLER CLAMP
22	123478-K17	2	HEX SCREW, 5/16-18 UNC X 2.00, GRADE 5
OPTIONAL PARTS			
	110377FI50	1	AIR FILTER
	110377HI50	1	AIR FILTER, HOODED
MAINTENANCE PARTS			
	110377E100	1	AIR FILTER ELEMENT
	115343X16L		REPLACEMENT HEAD ASSEMBLY INCLUDES ITEMS 1 AND 2 (1 EACH)
	115521K		INTERCOOLER REPLACEMENT KIT INCLUDES ITEM 18 (1 EA) & ITEM 17 (2 EA).

- TIGHTEN ALL BOLTS AND CAPSCREWS IN ANY BOLT PATTERN, EVENLY BRINGING EACH BOLT TO TORQUE IN EQUAL INCREMENTS, WHILE MOVING ABOUT THE BOLT PATTERN.
* HIGH PRESSURE COMPRESSORS AND DNV CERTIFIED APPLICATIONS REQUIRE 115343HPS HEAD IN LIEU OF 115343 HEAD AND 7395-1HPS CYLINDER IN LIEU OF 7395-1 CYLINDER.



HEAD ASSEMBLIES 115343UU & 115343UU-004 *

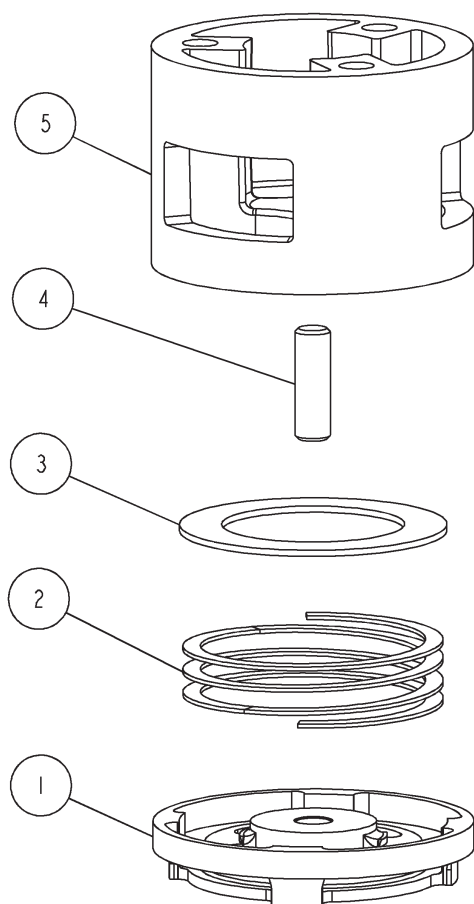
(control versions L, LS, & LVD)



ITEM	PART NUMBER	QTY	DESCRIPTION
* 1	115343	1	HEAD, AIRCOOLED
2	2024	6	GASKET, VALVE
3	6671X1	3	SUCTION VALVE ASSEMBLY
4	6668-1R	4	VALVE RETAINER
5	6670X001	3	DISCHARGE VALVE ASSEMBLY
6	6910	6	SPRING, UNLOAD. PIN
7	1857	6	UNLOADER PIN
8	5729	2	VALVE PLATFORM
9	6912-001	2	UNLOADER PIN
10	6911	2	RETAINER, VALVE
11	7398	2	GASKET, VALVE COVER
12	2025	2	GASKET, VALVE COVER
13	7384	1	VALVE COVER PLATE
14	7385	1	COVER PLATE
15	6908	1	VALVE COVER PLATE
16	6666	1	VALVE COVER PLATE
17	1556	2	VALVE COVER CAP GASKET
18	3008	2	HOLD DOWN SCREW
19	7532X	2	UNLOADER PISTON ASSEMBLY
20	40192	1	UNLOADER ASSEMBLY
21	40055	1	AY. UNLOADER, PNEUMATIC
22	1642	1	TUBE FITTING, 90 DEGREES MALE ELBOW
23	125933-001	1	PIPE NIPPLE, 1/4 NPT X CLOSE
24	121034-2	1	PIPE FITTING, TEE, 1/4 NPT
25	2614	1	TUBE FITTING, 90 DEGEES MALE ELBOW
26	110594-005	1	TUBE FITTING, MALE CONNECTOR, 1/4 TUBE X 1/4 NPT
27	7480	20	SCREW, CAP, .44NC X 1.38
28	114545-R15	4	BOLT AND NUT ASSEMBLY
29	2961-100	1	PRESSURE RELIEF VALVE
30	110515-025	1	TUBE, COPPER 1/4"
MAINTENANCE PARTS			
	6671X		REPLACEMENT SUCTION VALVE ASSEMBLY INCLUDES ITEMS 2 AND 3 (1 EACH)
	6671XU		REPLACEMENT SUCTION VALVE ASSEMBLY INCLUDES ITEMS 2 AND 3 (1 EACH), ITEMS 6 AND 7 (3 EACH)
	6670X01		REPLACEMENT DISCHARGE VALVE ASSEMBLY INCLUDES ITEMS 2 AND 5 (1 EACH)
	7483X		REPLACEMENT UNLOADER ASSEMBLY INCLUDES ITEMS 17, 19 AND 21 (1 EACH)
	8272X		REPLACEMENT UNLOADER ASSEMBLY INCLUDES ITEMS 17, 19 AND 20 (1 EACH)

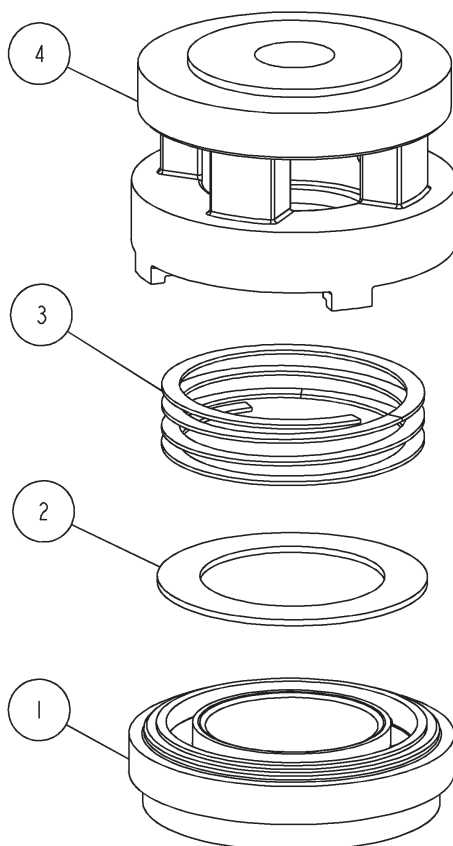
- TIGHTEN AND TORQUE VALVE COVER PLATE SCREWS (ITEM 27) BEFORE TIGHTENING VALVE CLAMP SCREWS (ITEM 28).
- TIGHTEN MULTIPLE BOLTS, CAPSCREWS AND HEX NUTS IN A CRISS-CROSS OR ALTERNATING PATTERN. BRING EACH FASTENER TO THE RECOMMENDED TORQUE SPECIFICATION IN EVEN INCREMENTS.
- * HIGH PRESSURE COMPRESSORS AND DNV CERTIFIED APPLICATIONS REQUIRE 115343HPS HEAD IN LIEU OF 115343 HEAD.

SUCTION VALVE ASSEMBLY 6671X1



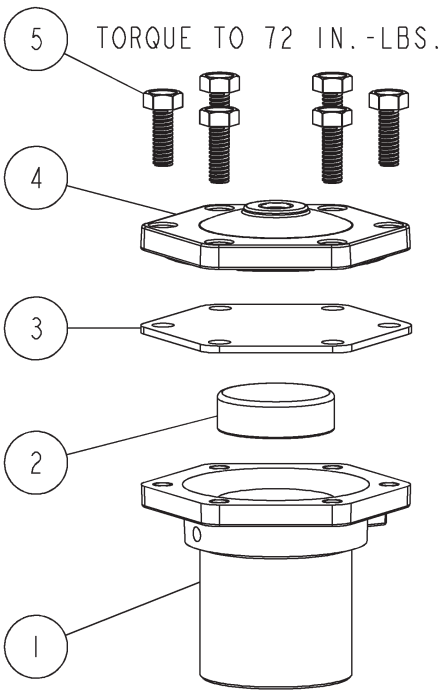
ITEM	PART NUMBER	QTY	DESCRIPTION
1	6671	1	BUMPER, VALVE SUCTION
2	6909	1	VALVE SPRING
3	2036	1	VALVE DISC
4	1849	1	VALVE STUD
5	2015	1	SEAT, SUCTION VALVE

DISCHARGE VALVE ASSEMBLY 6670X001



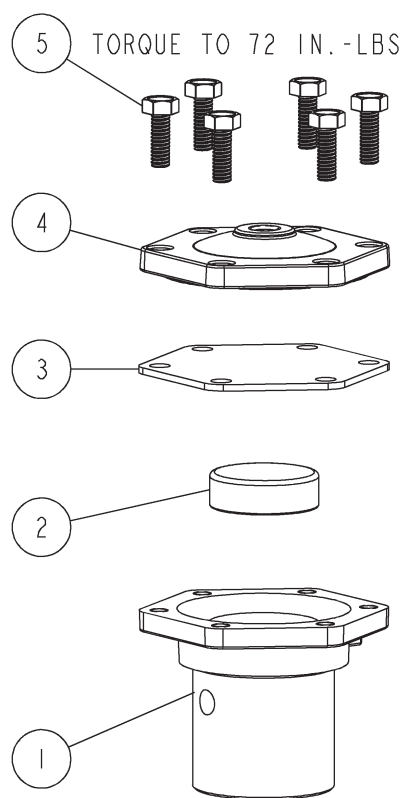
ITEM	PART NUMBER	QTY	DESCRIPTION
1	5812-001	1	SEAT, VALVE DISCHARGE
2	2036	1	VALVE DISC
3	6909	1	VALVE SPRING
4	6670-001	1	BUMPER, VALVE DISCHARGE

UNLOADER ASSEMBLY 40192



ITEM	PART NUMBER	QTY	DESCRIPTION
1	8272	1	BODY, UNLOADER
2	5910	1	UNLOADER CAP
3	1855	1	DIAPHRAGM
4	1818B	1	PLATE, COVER DIAPHRAGM
5	7499	6	SCREW

PNEUMATIC UNLOADER ASSEMBLY 40055

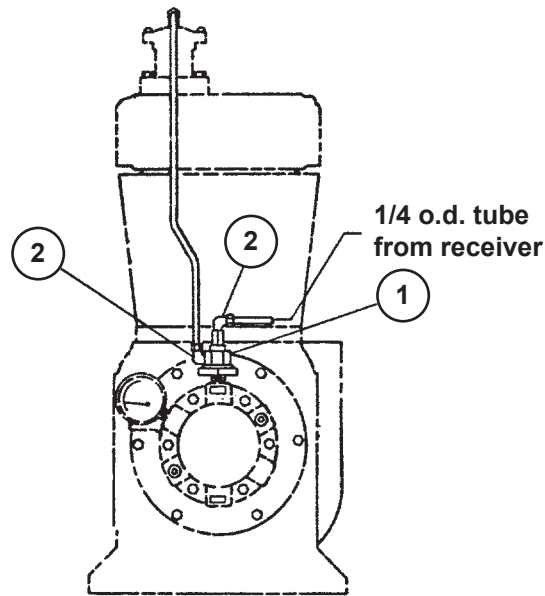
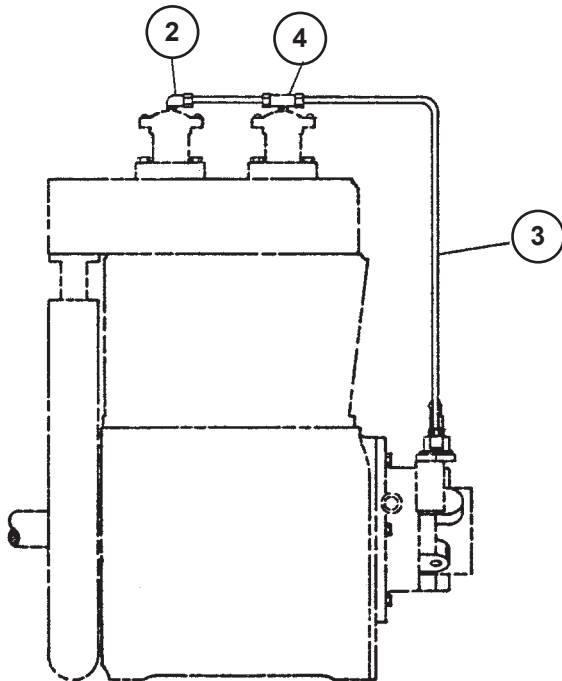


ITEM	PART NUMBER	QTY	DESCRIPTION
1	7483	1	UNLOADER BODY
2	5910	1	UNLOADER CAP
3	1855	1	DIAPHRAGM
4	1818B	1	PLATE, COVER DIAPHRAGM
5	7499	6	SCREW

CONTROL GROUP 110860

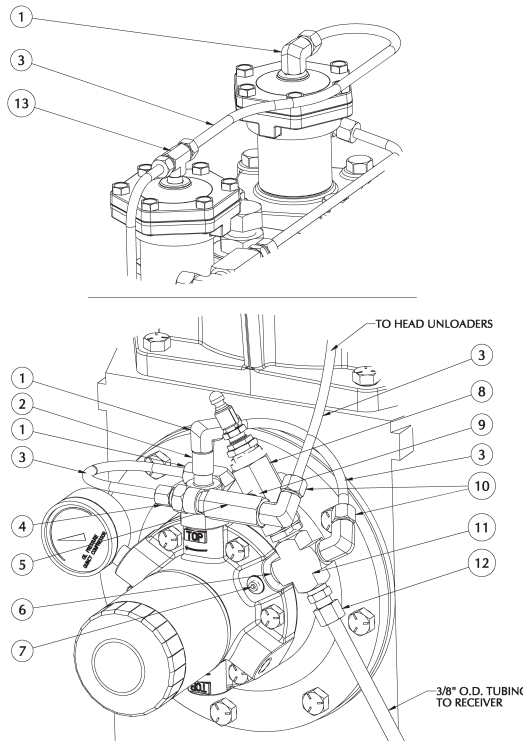
(control versions L)

Item Number	Qty.	Part Number	Part Number	Description
		0-200 PSIG	201-500 PSIG	
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.
4	1	1665	1665	tube fitting, male branch tee, 1/4 tube x 1/4 tube x 1/8 npt
				Maintenance Parts
		113225	113225	Hydraulic Unloader Repair Kit includes diaphragm, stem assembly, inlet filter & fitting assembly, spring (0-200 PSIG) and spring (201-500 PSIG, red color code)
				Parts for Special Applications (for use with diester or phosphate ester synthetic lubricants)
1	1	110827-003		hydraulic unloader assembly (standard, 0-200 PSIG)
1	1		110827-004	hydraulic unloader assembly (high pressure, 201-500 PSIG)



CONTROL GROUP 116112-175 & 116112-998

(control version LS)



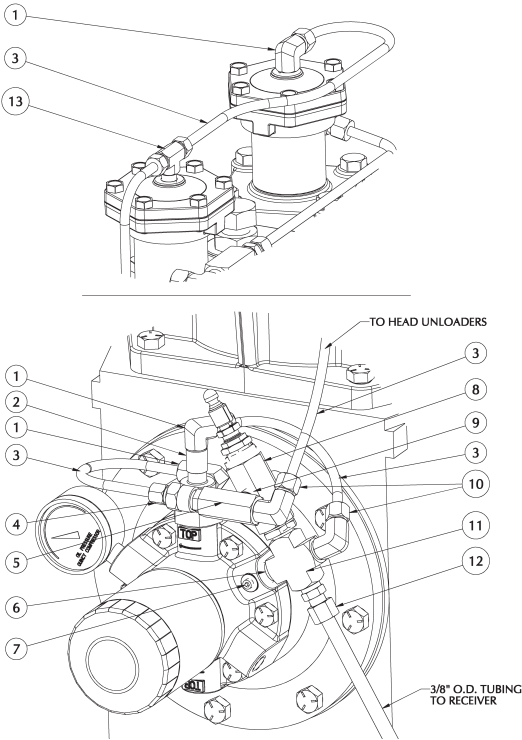
116112-175 "LS" CONTROL GROUP (175 PSI)			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	1642	TUBE FITTING, ELBOW, 1/4" TUBE X 1/8" NPT
2	1	110827-001	HYDRAULIC UNLOADER ASSEMBLY, 0-200 PSI
3	5 FT	110515-025	COPPER TUBE, 1/4" O.D.
4	1	9353	TUBE FITTING, 1/4" TUBE X 1/4" FEMALE NPT
5	1	6194X2	CHECK VALVE
6	1	6317	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 GROUP 116112-999

(control version LS)

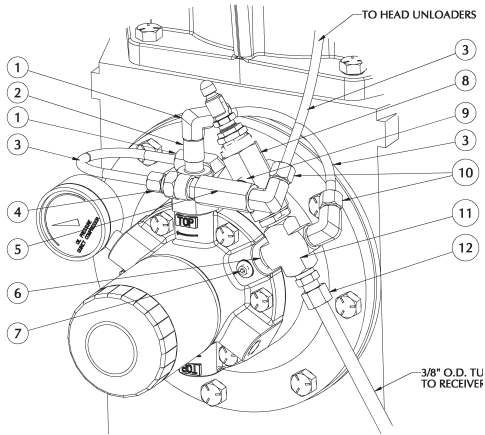
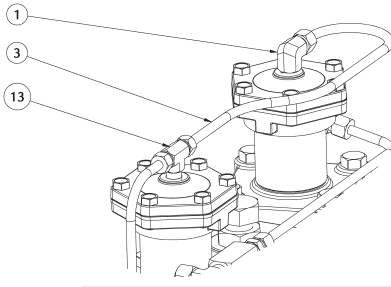


116112-999 "LS" CONTROL GROUP (201-350 PSI)			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	1642	TUBE FITTING, ELBOW, 1/4" TUBE X 1/8" NPT
2	1	110827-002	HYDRAULIC UNLOADER ASSEMBLY, 201-500 PSI
3	5 FT	110515-025	COPPER TUBE, 1/4" O.D.
4	1	9353	TUBE FITTING, 1/4" TUBE X 1/4" FEMALE NPT
5	1	6194X2	CHECK VALVE
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.

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

CONTROL GROUP 116115-165 & 116115-998

(control version LVD)



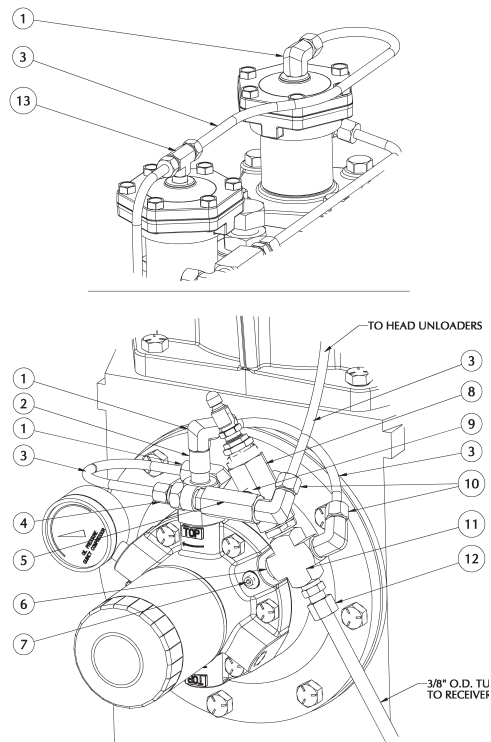
116115-165 "LVD" CONTROL GROUP (165 PSI)			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	1642	TUBE FITTING, ELBOW, 1/4" TUBE X 1/8" NPT
2	1	110827-001	HYDRAULIC UNLOADER ASSEMBLY, 0-200 PSI
3	5 FT	110515-025	COPPER TUBE, 1/4" O.D.
4	1	9353	TUBE FITTING, 1/4" TUBE X 1/4" FEMALE NPT
5	1	6194X2	CHECK VALVE
6	1	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 GROUP 116115-999

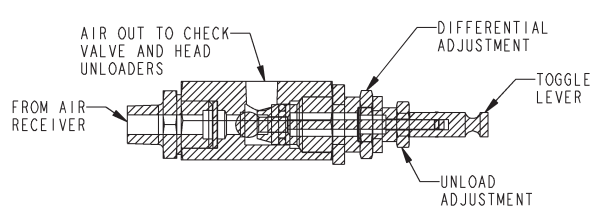
(control version LVD)



116115-999 "LVD" CONTROL GROUP (201-350 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	111423-001	PILOT VALVE, DUAL CONTROL (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.

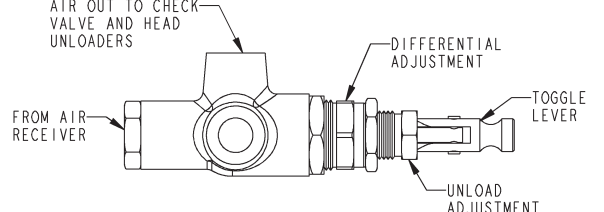
PILOT VALVES



113708 SERIES PILOT VALVE (CONTROL VERSION "LS")

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

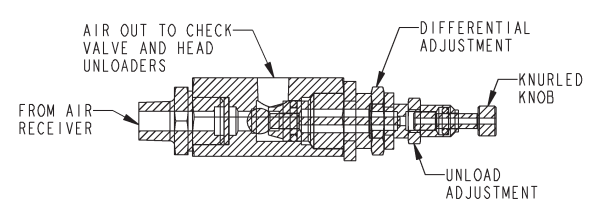
* CUSTOMER TO SET, SEE DIFFERENTIAL SETTING CHART.
ADDITIONAL FACTORY PRESET VALVES ARE AVAILABLE UPON REQUEST.



110832 SERIES PILOT VALVE (CONTROL VERSION "LS")

PART NUMBER	LOAD PSI	UNLOAD PSI
110832-999	*	201-350 ADJUSTABLE

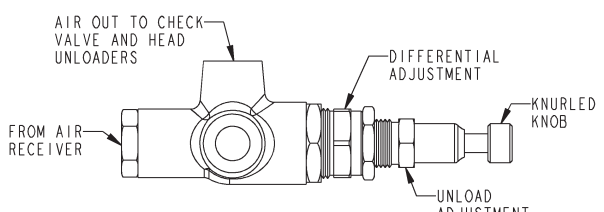
* CUSTOMER TO SET, SEE DIFFERENTIAL SETTING CHART.
ADDITIONAL FACTORY PRESET VALVES ARE AVAILABLE UPON REQUEST.



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 SERIES PILOT VALVE (CONTROL VERSION "LVD")

PART NUMBER	LOAD PSI	UNLOAD PSI
111423-001	*	201-350 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, 201-350 PSI (GREEN)

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
"	350	20	45

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-***, 110998-***, 110832-***, and 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 110832-*** & 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 110832-*** 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

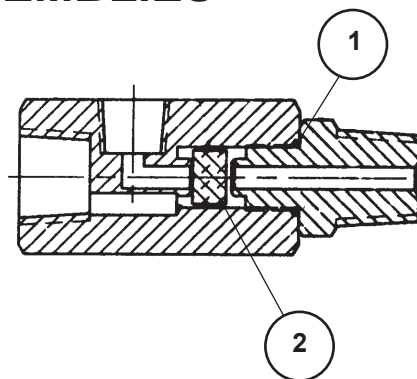
Periodically check the filter & screens in the inlet of the pilot valve to make sure they are free of obstructions. If they become clogged, remove and clean or replace. Inspect the "o"ring located in the opposite end of the pilot valve body for wear or damage; replace if necessary.

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 K350G			
Item #	Qty.	Part Number	Description
1		110377E100	air filter element
2		1556	gasket
2		1855	diaphragm
6		2024	gasket, valve
2		7398	gasket, valve cover
2		2025	gasket, valve cover
6		2036	valve disc
1		7403	gasket, cylinder to head
6		6909	valve spring

Overhaul Kit K350H			
Item #	Qty.	Part Number	Description
1		110377E100	air filter element
2		1855	diaphragm
6		2036	valve disc
2		6656PR	connecting rod inserts (1 pair)
6		6909	valve spring
1		7503	gasket set
1		8168A	ring set
1		7527A	ring set

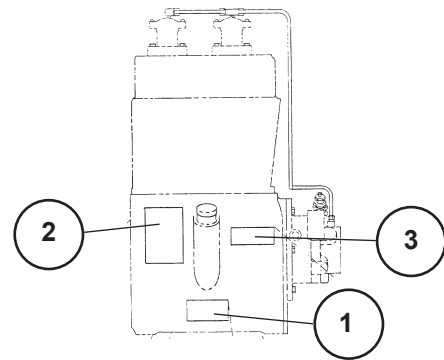
Piston Pin Kit K350E			
Item #	Qty.	Part Number	Description
1		6443SR	con-rod bearing
1		8647	pin
4		8648	retaining ring
1		110190-004	pin
2		110799-010	bearing

Recommended Spare Parts			
Item #	Qty.	Part Number	Description
3		6671X	replacement suction valve assy.
3		6670X01	replacement discharge valve assy.
1		110822	pressure gauge
1		160079	oil pump repair kit
1		7503	gasket set
1		113225	hydraulic unloader repair kit
2		6656PR	connecting rod inserts (1 pair)
2		1855	unloader diaphragm
1		110832-051	pilot repair kit
1		110377E100	air filter element

Yearly Maintenance Kit 110516-350			
Item #	Qty.	Part Number	Description
1		110822	oil pressure gauge
2		1855	diaphragm
6		1857	valve pin
6		2036	valve disc
2		6283	hydraulic unloader filter
6		6909	valve spring
6		6910	valve spring
1		7503	gasket set

Basic Compressor Repair Kit 110823-350			
Item #	Qty.	Part Number	Description
1		110190-004	piston pin
1		110377E100	air filter element
1		110774	"o"ring kit
1		110814	oil filter
1		2720	bearing cup
1		2788	bearing cone
1		3720	bearing cup
1		40775	bearing cone
1		6443SR	connecting rod bushing
2		6656PR	connecting rod inserts (1 pair)
6		6909	valve spring
1		7503	gasket set
1		7527	ring set
6		2036	valve disc
1		8168	gasket set
2		110799-010	needle bearing
1		8647	piston pin

Gasket Set 7503			
Item #	Qty.	Part Number	Description
2		1315	inspection plate gasket
3		1383	bearing adj. shim, .005 steel
5		1383A	bearing adj. shim, .007 steel
3		1383B	bearing adj. shim, .020 steel
2		1383D	bearing adj. shim, .002 steel
2		1556	gasket
6		2024	valve gasket
2		2025	valve cover gasket
1		5502	gasket
1		5827-2	gasket, cylinder to crankcase
1		6679	gasket, oil inlet bracket
2		7398	valve cover gasket
1		7403	gasket, cylinder to head



Decals for QR 350 Basic Compressor			
Item #	Qty.	Part Number	Description
1	1	110831	serial number & nameplate
2	1	127889-A	decals, CAUTION!/manual/ "Failure to follow..."
3	1	127889-B	decals, DANGER! / "Air used for breathing..."

* Not sold separate; order 127889.

TYPICAL UNIT REPAIR PARTS LIST

The parts listed here are for standard QR 350 (up to 175 PSIG) 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 350 simplex - horizontal tank - electric motor)

Qty	Part Number	Part Number	Part Number	Description
120 gal.				
1	113271-200			tank (200 PSIG max. working pressure)
1	* 113280			top plate
1	111136-050			tank drain valve
1	111136-100			ball valve
1	110514-300			pressure gauge
1	110512-003			pressure switch (135-175 PSIG)
1	110513-200			pressure relief valve (200 PSIG)
3.5 ft.	110515-100			! discharge tube (1" copper tube to be formed by customer)
2	111265-100			ferrule (for discharge tube)
10 h.p.				
2	<i>110258B083</i>			drive belt
1	<i>111241</i>			motor pulley
1	<i>5380</i>			motor pulley bushing
1	<i>111967K003</i>			belt guard assembly
1	200v, 3Ø <i>40656</i>	230/460v, 3Ø <i>4014</i>		10 h.p. motor (ODP)

(QR 350 duplex - horizontal tank - electric motor)

Qty	Part Number	Part Number	Part Number	Description
120 gal.		200 gal.		
1	113467-200	113469-200		tank (200 PSIG max. working pressure)
2	<i>113280</i>	<i>113280</i>		top plate
1	111136-050	111136-050		tank drain valve
1	111136-100	111136-100		ball valve
1	110514-300	110514-300		pressure gauge
2	110512-003	110512-003		pressure switch (135-175 PSIG)
1	110513-200	110513-200		pressure relief valve (200 PSIG)
7 ft.	110515-100	110515-100		! discharge tube (1" copper tube to be formed by customer)
2	111265-100	111265-100		ferrule (for discharge tube)
10 h.p.				
4	<i>110258B083</i>			drive belt
2	<i>111241</i>			motor pulley
2	<i>5380</i>			motor pulley bushing
2	<i>111967K003</i>			belt guard assembly
2	200v, 3Ø <i>40656</i>	230/460v, 3Ø <i>4014</i>		10 h.p. motor (ODP)

* 113280 top plate is also used for all QR 350 base mounted electric motor driven units.

Part numbers shown in italics apply to tank mounted units and base mounted 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 350 (up to 175 PSIG) 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 350 gasoline engine driven)

Qty	Part Number	Part Number	Part Number	Description
	base unit	tank unit		
1		113716-200		tank (200 PSIG)
1	115096	115096		top plate
1		111136-025		tank drain valve
1		111136-075		ball valve
1		110514-300		pressure gauge
1		110513-200		pressure relief valve (200 PSIG)
2	110357B078	110357B078		drive belt
1	113757	113757		engine pulley
1	8924	8924		engine pulley bushing
1	111967K003	111967K003		belt guard assembly
1	113143-004	113143-004		throttle control
1	113720-001	113720		Kohler engine group, 18 h.p. (includes exhaust system & throttle control)
3.5 ft.		110515-100		! discharge tube (1" copper tube to be formed by customer)
2		111265-100		ferrule (for discharge tube)

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

! 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



Reciprocating / Systems: 217.222.7700
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Website: quincycompressor.com

