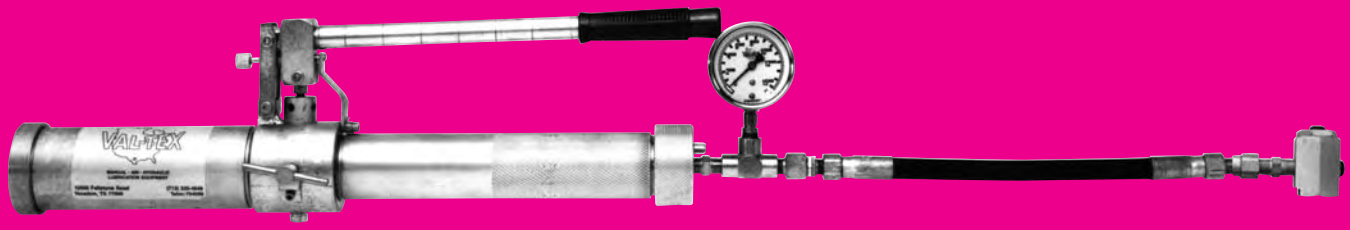
VAL-TEX



NO. 1400

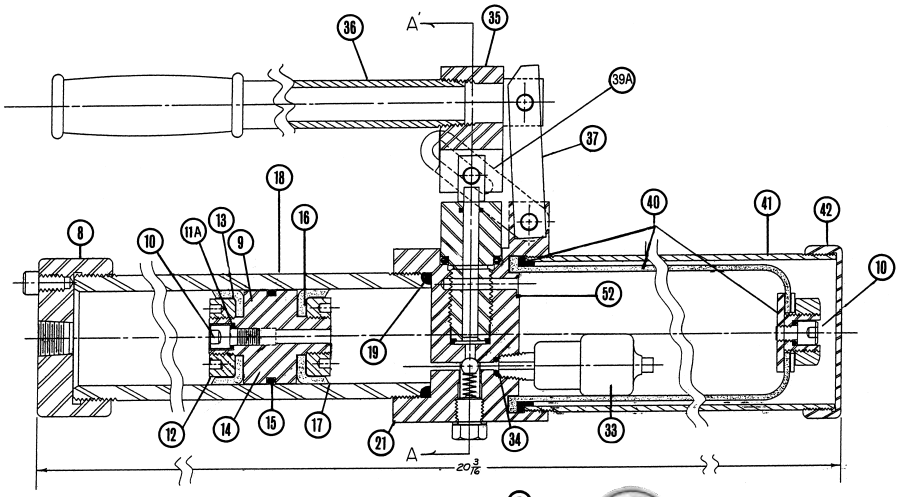
HYDRAULIC LUBRICATION GUN

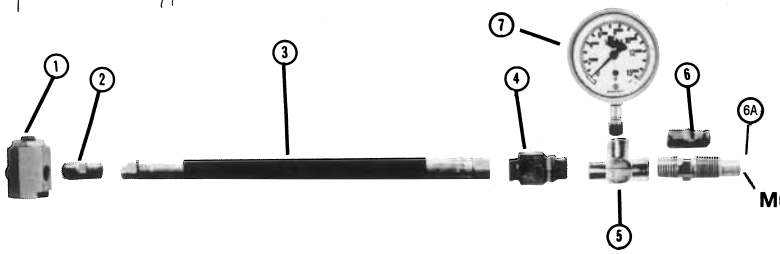
MAINTENANCE MANUAL

Providing Solutions, Products and Training

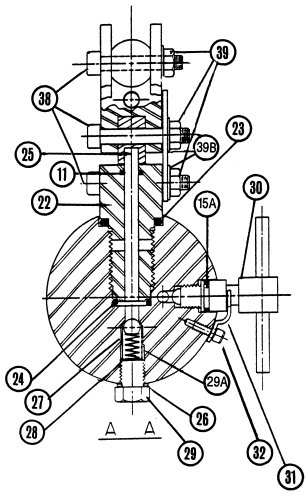
www.valtex.com

NO. 1400 LUBE GUN
PARTS DIAGRAM

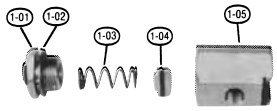




Must be used with 12a



No. 6 Coupler



REPAIR PARTS IN STOCK FOR IMMEDIATE DELIVERY

Item No.	Part No.	Description	Item No.	Part No.	Description
1	6	Giant Buttonhead Coupler	26	1411-FA	Washer 1/4" x 1/32"
1-01	6-C	Cap	▲ 27	1411-FB	Ball 1/4" φ
1-02	6-G	Gasket	28	1411-FC	Spring
1-03	6-S	Spring	29	1411-FD	Check Valve Screw
1-04	5N	Nylon Washer	29A	1411-FE	Filter Screen
1-05	6-B	Body	30	1411-G	By-Pass Valve Assy.
2	43379	No. 6 G.B. Coupler Adapter	31	1411-H	By-Pass Stop
3	20	Hose Center Only	32	1411-I	Cap Screw No. 8-32NC
4	16-D	H.P. Ball Bearing Swivel	33	1411-J	Internal Hydraulic Relief
5	.25 TEE	High Pressure Hose Tee	▲+ 34	1411-K	O-ring 6227-3
6	301296	Hose Tee Adapter	35	1412	Fulcrum Assy.
* 6A	1420	Lube Pack Adapter	36	1413	Handle
7	15MGF	High Pressure Gauge	37	1414-A	Links (2)
8	1407	Grease Barrel Cap	38	1414-B	Stripper Bolt
9	1408	Piston Assembly	39	1414-C	Lock Nut
10	1408-A	Cap Screw 1/4"-28NF	39A	1414-D	Stop Link
▲+ 11	1408-B	O-ring 70-010	39B	1414-E	Link Washer 7/16" x 3/16"
▲ 11A	1408-BA	Copper Washer	▲ 40	1415	Fluid Bag, Seal Ring, Bleeder Assy.
12	1408-C	Outer Washer Nut			
* 12A	1421	Outer Washer Nut for Lube Pack	41	1416	Fluid Bag Barrel
▲ 13	1408-D	Outer Hydraulic Cup	42	1417	Fluid Bag Barrel Cap
14	1408-E	Piston	52	1419	Filter Screen
▲+ 15	1408-F	O-ring 6227-24			
▲+ 15A	1408-G	O-ring 70-012		**OPTIONS:**	
▲ 16	1408-H	Inner Hydraulic Cup	▲	UCON-500	Quart of Hydraulic Fluid
17	1408-I	Inner Washer Nut		CT-LOADER	Cartridge Loader
18	1409	Grease Barrel		GC-250	Gauge Guard
▲+ 19	1410	O-ring 6227-9		GUN CASE	Hydraulic Gun Case
20	1411	Body Assy., Items 21 Thru 34		1422	Carrying Strap
21	1411-A	Body		1413-R	Handle Retention Rope
▲ 22	1411-B	Hydraulic Pump Cylinder		319700	Shut-off / Bleeder Valve
▲+ 23	1411-C	O-ring 6227-15		52752	Z - Swivel
▲+ 24	1411-D	O-ring 6227-10			Various Hose Lengths
25	1411-E	Pump Piston			

▲ Kit #1 + Kit #2

* Items 6A & 12A needed to convert older guns to use Lube Packs.

VAL-TEX

10600 FALLSTONE RD. ■ HOUSTON, TEXAS 77099-4390 ■ PHONE (281) 530-4848 ■ 800-627-9771 ■ FAX (281) 530-5225

NO. 1400 LUBRICATION GUN
TROUBLE SHOOTING PROCEDURES

WARNING: PLEASE CHECK WITH VAL-TEX TO DETERMINE IF YOUR 1400 HYDRAULIC GUN IS UNDER WARRANTY. PERFORMING ANY OF THESE PROCEDURES (EXCLUDING NO. 8) OR USE OF ANY HYDRAULIC FLUID OTHER THAN UCON-500 WIII CAUSE THE WARRANTY TO BE CANCELLED. DO NOT CARRY THE 1400 BY THE HANDLE

PROBLEMS	CAUSE	CORRECTIVE ACTION
Gun will not build pressure.	Air in fluid system.	Refill with hydraulic fluid. See Procedure 1.
	Check valve ball (No. 27) not holding.	Reseat or replace check valve ball. See Procedure 2.
	By-pass valve (No. 30) leaking.	Reseat or replace by-pass valve. See Procedure 3.
	Internal hydraulic relief failure (No. 33).	Replace Internal hydraulic relief (No. 33). See Procedure 5.
	Bad seal between coupler (No. 1) and buttonhead fitting.	Replace coupler washer (No. 1-04). See Procedure 8.
	Hydraulic pump piston failure (No. 25).	Replace pump piston (No. 25) and/or hydraulic pump cylinder (No. 22). See Procedure 7.
Gun only pumps when rear of gun is elevated.	Air in fluid system.	Refill with UCON-500 fluid. See Procedure 1.
Excessive pumping required to prime gun.	Air in fluid system.	Refill with UCON-500 fluid. See Procedure 1.
Hydraulic fluid leaking around rear of gun.	Leaking fluid bag (No. 40).	Replace fluid bag. See Procedure 4.
Piston assembly (No. 9) springs back after being pushed down.	Air in fluid system.	Refill with UCON-500 fluid. See Procedure 1.
Handle (No. 36) springs up.	Check valve ball (No. 27) not holding.	Reseat or replace check valve ball. See Procedure 2.
Hydraulic fluid mixed with lube sealant.	Leakage around piston assembly (No. 9).	Replace seals on piston assembly. See Procedure 6.

VAL-TEX

10600 FALLSTONE RD. ■ HOUSTON, TEXAS 77099-4390 ■ PHONE (281) 530-4848 ■ 800-627-9771 ■ FAX (281) 530-5225

PROCEDURE NO. 1

REFILLING OF THE #1400 HYDRAULIC GREASE GUN WITH UCON-500 FLUID

1. Open by-pass valve (No. 30).
2. Remove the grease barrel cap (No. 8).
3. Using the grease gun handle (No. 36), push the piston assembly (No. 9) to the bottom of the grease gun barrel (No. 18). Close by-pass valve (No. 30).
4. Remove the fluid bag barrel cap (No. 42).

NOTE: On some hydraulic grease guns, the fluid barrel cap is secured with a set screw. Check to see that the set screw is loosened.

5. Place the grease gun on a table with the grease gun barrel (No. 18) pointed down. After the grease gun is primed, stroke the handle an additional 50 times.
6. Remove cap screw (No. 10) from the fluid bag bleeder assembly (No. 40).
7. Fill fluid bag (No. 40) with UCON-500 fluid. Let the gun stand for 15 minutes or longer so that any air in the fluid bag will come to the top. Top off with UCON-500 fluid again and replace cap screw (No. 10) making sure no air is trapped in the fluid bag.

NOTE: Use only UCON-500 fluid as it promotes increased life of the rubber parts in the grease gun.

8. Put fluid bag barrel cap (No. 42) on. The gun is ready to load.

PROCEDURE NO. 2

RESEATING OR REPLACING CHECK VALVE BALL (NO. 27)

1. Place the grease gun on a table with check valve screw (No. 29) accessible.
2. Remove check valve screw (No. 29).
3. Remove and inspect spring (No. 28), filter screen (No. 29A) and ball (No. 27). Discard if damaged.
4. Inspect seat in body of grease gun. Make sure there is no debris around seat.
5. Drop ball (No. 27) back in grease gun. To reseat, tap the ball firmly with a flat nose punch.
6. Insert screen (No. 29A) and spring (No. 28) in grease gun.
7. Inspect washer (No. 26), replace if necessary.
8. Reinstall check valve screw (No. 29) in grease gun.

NOTE: If the screen, spring or check valve screw are damaged, replace all three with new parts. Some of the grease guns have been redesigned and the screens are not the same length in all guns.

PROCEDURE NO. 3

RESEAT OR REPLACE BY-PASS VALVE (NO. 30)

1. Remove cap screw (No. 32) and by-pass stop (No. 31).
2. Remove and inspect by-pass valve (No. 30). Look for cuts on the ball.
3. Check the o-ring (No. 15A) on the by-pass valve and replace if necessary.
4. Inspect seat in the body for cuts or debris.

NOTE: The seat can be reformed by tightening the by-pass valve (No. 30) with a wrench. Do not use excessive force.

5. If the by-pass valve is in good condition, reuse it. If not, replace it.
6. Reinstall the by-pass stop (No. 31) and cap screw (No. 32).
7. Refer to the refilling instructions outlined in Procedure No. 1.

PROCEDURE NO. 4

FLUID BAG (NO. 40) REPLACEMENT

1. Open by-pass valve (No. 30).
2. Using the grease gun handle (No. 36), push the piston assembly (No. 9) to the bottom of the grease gun barrel (No. 18). Close the by-pass valve (No. 30).
3. If a set screw is used to secure the fluid barrel (No. 41) to the body (No. 21) loosen it.
4. Secure the grease gun body (No. 21) in a vise with the grease barrel (No. 18) pointed up. Use a strap wrench to remove the fluid bag barrel (No. 41). Do not use a pipe wrench as it may damage the fluid bag barrel.
5. Remove and discard the fluid bag assembly (No. 40). This includes the seal ring.
6. Place the fluid bag barrel on a table and insert the new seal ring and fluid bag into the fluid bag barrel.
7. Fill the fluid bag with UCON-500 fluid (use only UCON-500 because of its compatibility with rubber parts).
8. Screw the fluid bag barrel onto the body (No. 21). Using a strap wrench, tighten with enough force to insure a good seal.
9. Refer to the refilling instructions outlined in Procedure No. 1.

VAL-TEX

10600 FALLSTONE RD. ■ HOUSTON, TEXAS 77099-4390 ■ PHONE (281) 530-4848 ■ 800-627-9771 ■ FAX (281) 530-5225

PROCEDURE NO. 5

INTERNAL HYDRAULIC RELIEF (NO. 33) REPLACEMENT

1. Follow instructions for replacement of fluid bag in Procedure No. 4, step 1 through 4.
2. Inspect fluid bag assembly (No. 40) and replace if necessary.
3. Once you have removed the fluid bag, the internal hydraulic relief (No. 33) will be exposed.
4. Remove internal hydraulic relief (No. 33) and o-ring (No. 34). Replace with new parts.

DO NOT ATTEMPT TO REPAIR OR ADJUST THE INTERNAL HYDRAULIC RELIEF.

5. Refer to fluid bag replacement in procedure No.4, steps 6 through 9.

PROCEDURE NO. 6

PISTON ASSEMBLY (NO. 9) REPLACEMENT OR REPAIR

1. Remove grease barrel cap (No. 8).
2. Close by-pass valve (No. 30) and carefully pump the piston assembly (No. 9) out of grease barrel (No. 18) Until you are ready to replace the piston assembly, leave grease gun sitting up-right on the fluid barrel cap (No. 42).
3. Using a spanner wrench remove outer washer nut (No. 12) or (No. 12A) and inner washer nut (No. 17). Do not score piston surface.
4. Remove outer hydraulic cup (No. 13), inner hydraulic cup (No. 16) and o-ring (No. 15). Replace with new parts.
5. Reinstall outer and inner washer nuts.
6. Remove cap screw (No. 10) from the piston assembly (No. 9). Inspect copper washer (No. 11A) and replace if necessary.
7. Return piston assembly (No. 9) to the grease gun barrel (No. 18). Take care that inner hydraulic cup is not damaged when you insert piston assembly into grease barrel.
8. Push piston assembly down until the top of piston is even with the top of the grease gun barrel.
9. Top off the gun with UCON-500 fluid through the opening left when cap screw (No. 10) was removed from piston assembly (No. 9).
10. Reinstall cap screw (No. 10) with copper washer (No. 11A).
11. Open by-pass valve (No. 30) and push piston assembly to bottom of grease gun barrel.
12. Close by-pass valve (No. 30).
13. Refer to the refilling instructions outlined in Procedure No. 1, step No. 4 through 8.

PROCEDURE NO. 7

REPLACEMENT OF HYDRAULIC PUMP PISTON (NO. 25) AND HYDRAULIC PUMP CYLINDER (NO. 22)

1. Place the grease gun in a vise with the pump piston (No. 25) accessible.
2. Remove the lock nut (No. 39) link washer (No. 39B) and stripper bolt (No. 38) where it connects to the pump piston (No. 25), freeing the stop link (No. 39A) from the fulcrum assembly (No. 35).
3. Pull the pump piston (No. 25) out of the hydraulic pump cylinder (No. 22) and inspect. If any wear or damage is visible, replace it when instructed in step 6.
4. Using a spanner wrench, remove and inspect the hydraulic pump cylinder (No. 22). Replace with a new hydraulic pump cylinder, if required.
5. Replace o-rings (No. 11, 23, and 24).
6. Insert pump piston (No. 25) into hydraulic pump cylinder (No. 22)
7. Reinstall hydraulic pump cylinder (No. 22) in the grease gun body (No. 21).
8. Reconnect the fulcrum assembly (No. 35) to the pump piston (No. 25) with the stripper bolt (No. 38), stop link (No. 39A), link washer (No. 39B) and lock nut (No. 39).
9. Refer to the refilling instructions in Procedure No. 1.

PROCEDURE NO. 8

REPLACE COUPLER WASHER (No.1-04)

1. Remove coupler cap (No.1-01). Keep gasket (No. 1-02).
2. Remove spring (No. 1-03).
3. Replace nylon coupler washer (No. 1-04).
4. Reinstall spring (No. 1-03).
5. Reassemble coupler using gasket (No. 1-02) and cap (No. 1-01).

VAL-TEX

10600 FALLSTONE RD. ■ HOUSTON, TEXAS 77099-4390 ■ PHONE (281) 530-4848 ■ 800-627-9771 ■ FAX (281) 530-5225

VAL-TEX

THE ANSWER IS - VAL-TEX PRODUCTS AND TRAINING

VALVE LUBE SEALANTS

STICK FORM

"J" SIZE CARTON (16 STICKS)
FOR HYDRAULIC GUN
APPROX. 8 LBS./3.63 KILOS (NET)

"K" SIZE CARTON (12 STICKS)
FOR SCREW PRIME GUN
APPROX. 8 LBS./3.63 KILOS (NET)

LUBE PACK FORM

"P" SIZE CARTON (16 LUBE PACKS)
FOR HYDRAULIC GUN
APPROX. 8 LBS./3.63 KILOS (NET)

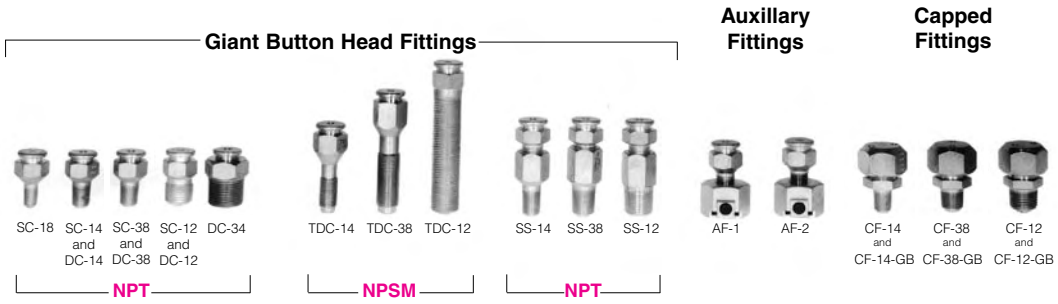
BULK FORM

5 QT. CAN
10 LBS./4.53 KILOS

5 GAL PAIL
40 LBS./18 KILOS

16 GAL DRUM
120 LBS./54.43 KILOS

LUBE SEALANT FITTINGS & ADAPTERS



QS-2000A

AIR OPERATED-FOR STICK OR BULK

FAST EFFORTLESS INJECTION

VALVE FLUSH

QS-5000

AIR OPERATED-FOR STICK OR BULK

PREFERRED BY HIGH VOLUME USERS

VAL-TEX

10600 FALLSTONE RD. ■ HOUSTON, TEXAS 77099-4390 ■ PHONE (281) 530-4848 ■ 800-627-9771 ■ FAX (281) 530-5225