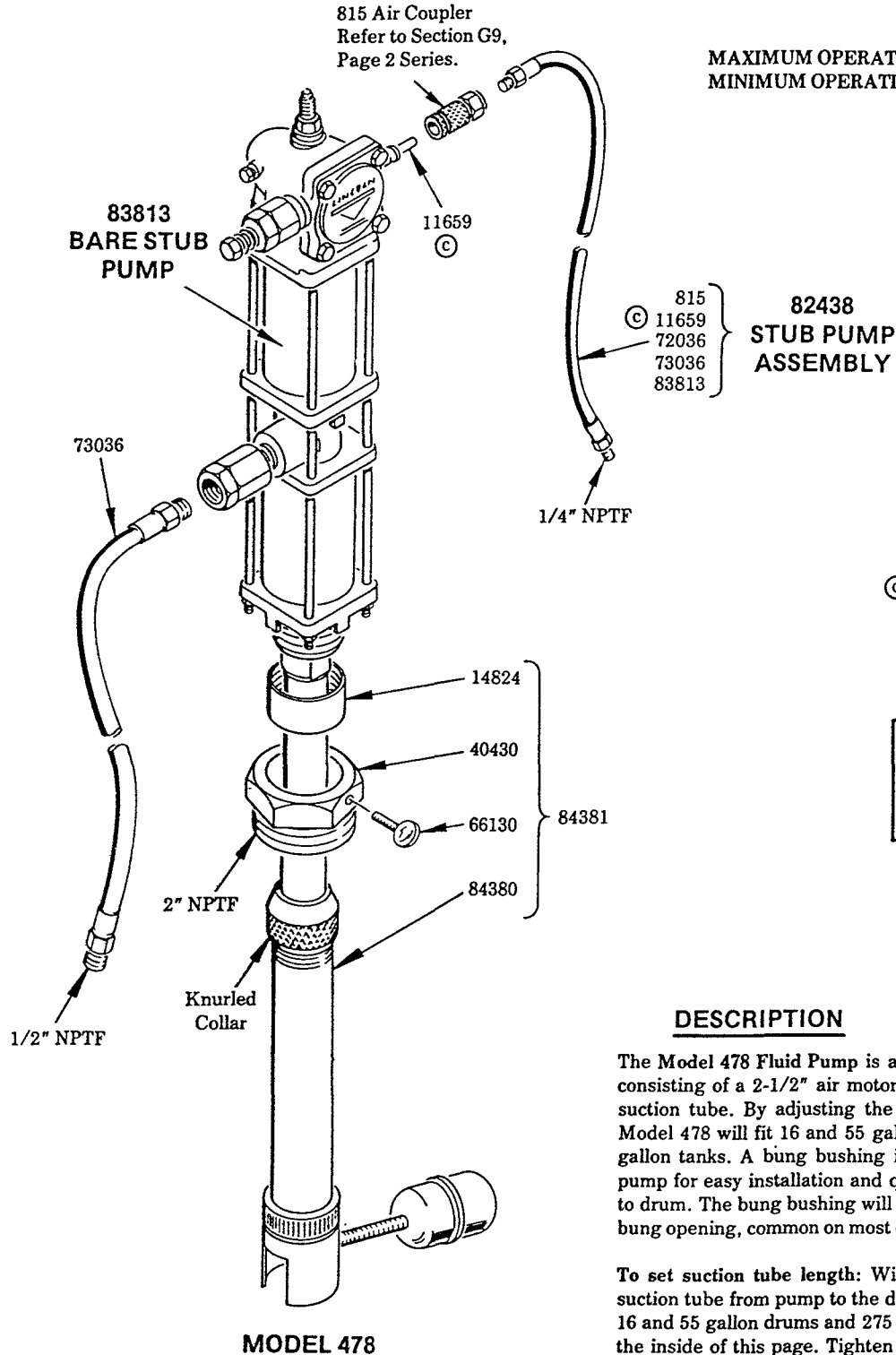


FLUID PUMPS

FOR DISPENSING MOTOR OIL
OR SIMILAR FLUIDS, 1:1 RATIO

Models 478 82438, 83813



MAXIMUM OPERATING AIR PRESSURE 200 PSI
MINIMUM OPERATING AIR PRESSURE 20 PSI

Ⓒ Indicates change

Warning
Do not operate
this unit with
combustible gas.

DESCRIPTION

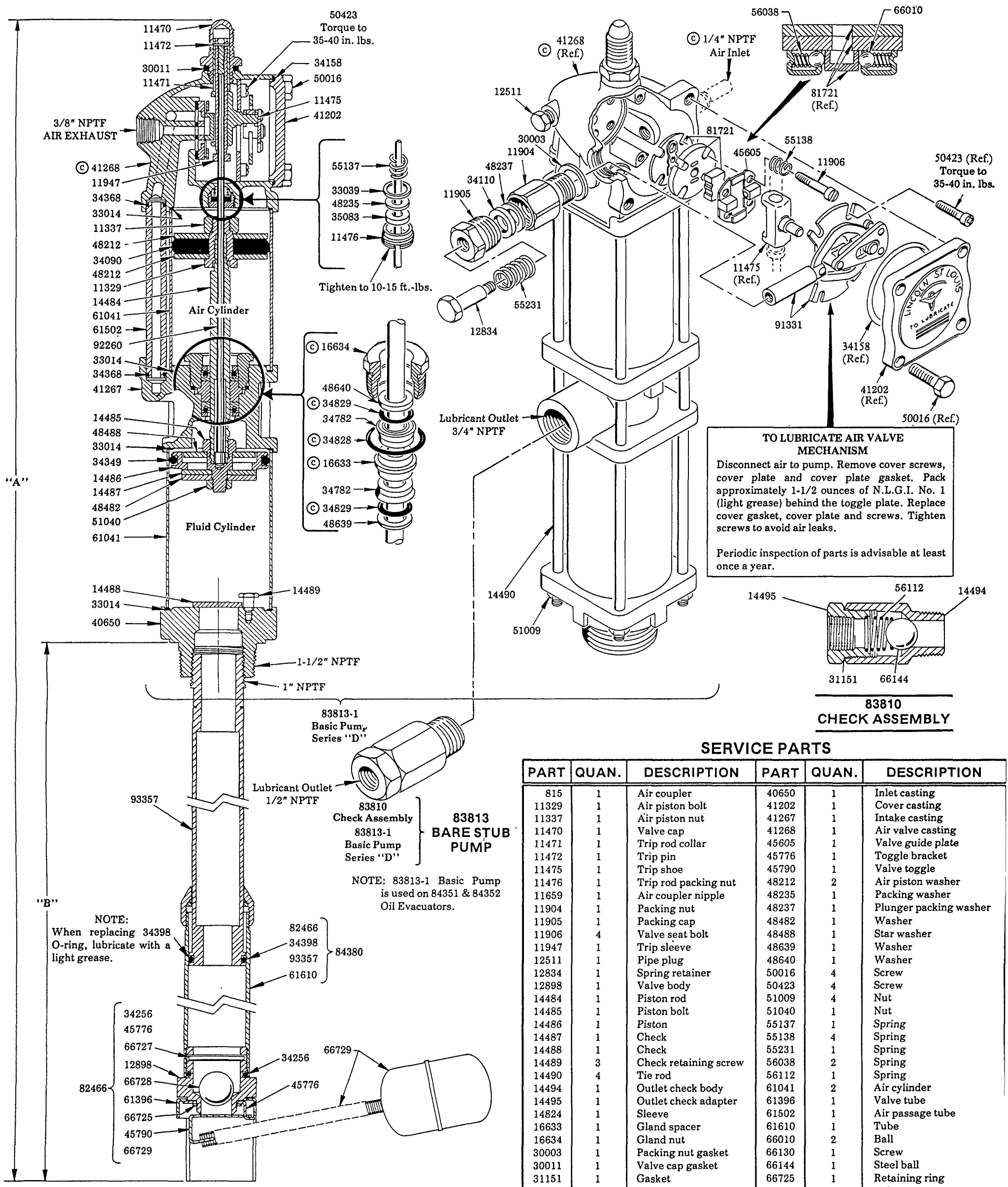
The Model 478 Fluid Pump is a reciprocating type pump consisting of a 2-1/2" air motor coupled to an extensible suction tube. By adjusting the suction tube length, the Model 478 will fit 16 and 55 gallon drums as well as 275 gallon tanks. A bung bushing is included with the fluid pump for easy installation and quick changing from drum to drum. The bung bushing will fit any standard 2" NPTF bung opening, common on most drums and tanks.

To set suction tube length: Withdraw bottom section of suction tube from pump to the desired length. Lengths for 16 and 55 gallon drums and 275 gallon tanks are listed on the inside of this page. Tighten knurled collar hand tight and add an additional one-half turn with a wrench. To prevent tube damage when tightening, the knurled diameter of the 82466 Low Level Cut-off should be held rather than the 1-5/8" O.D. tubing.



One Lincoln Way St. Louis, Missouri 63120-1578
(314) 679-4200 Telex 44881

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SUCTION TUBE ADJUSTMENT

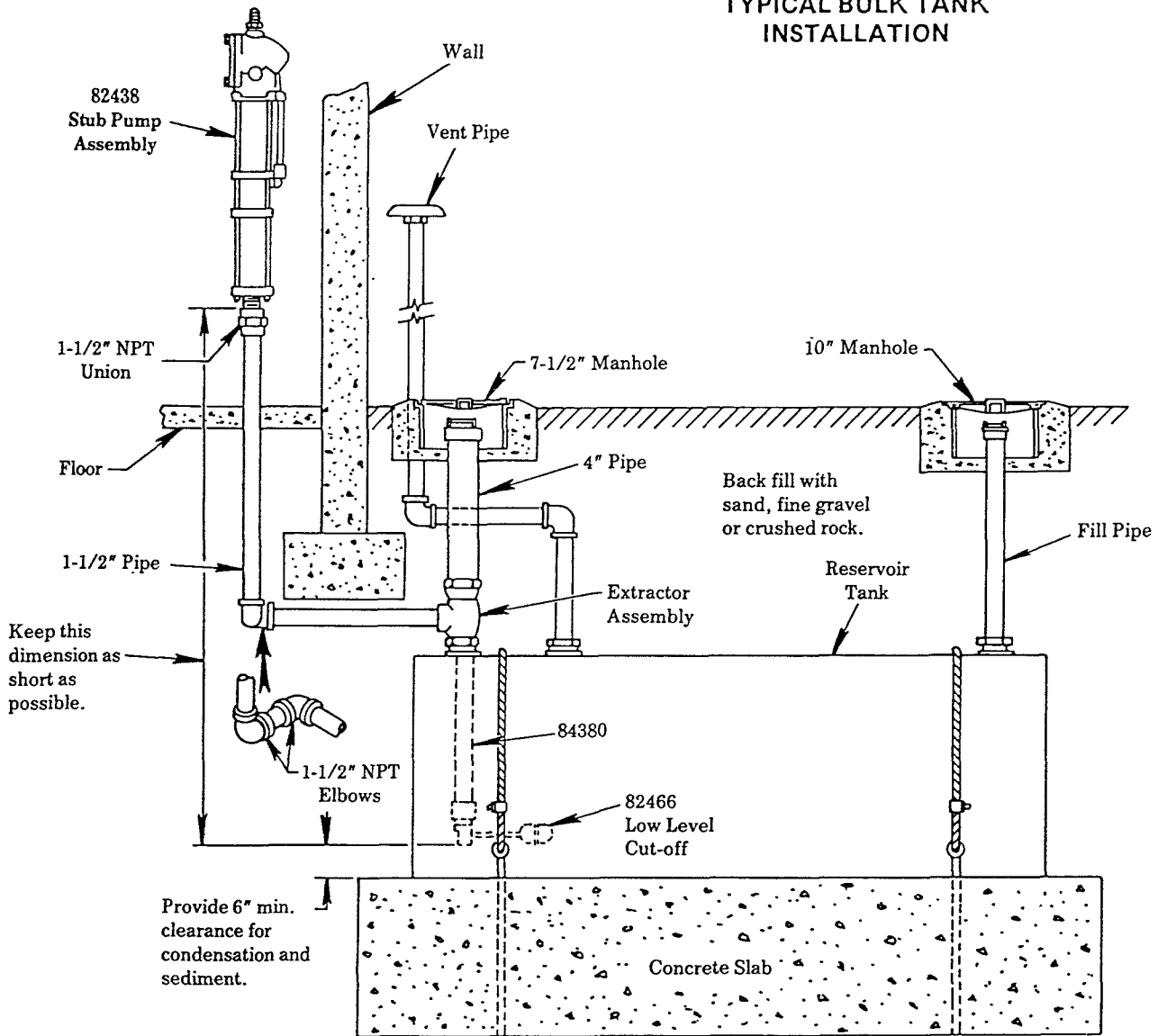
Drum Size	Dimension "A"	Dimension "B"
* 16 Gal. Drum	42-7/16"	26-7/16"
55 Gal. Drum	49-1/2"	33-1/2"
** 27½ Gal. Tank	60-5/8"	44-5/8"

* Fully Collapsed
** Fully Extended

SERVICE PARTS

PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION
815	1	Air coupler	40650	1	Inlet casting
11329	1	Air piston bolt	41202	1	Cover casting
11337	1	Air piston nut	41267	1	Intake casting
11470	1	Valve cap	41268	1	Air valve casting
11471	1	Trip rod collar	45605	1	Valve guide plate
11472	1	Trip pin	45776	1	Toggle bracket
11475	1	Trip shoe	45790	1	Valve toggle
11476	1	Trip rod packing nut	48212	2	Air piston washer
11659	1	Air coupler nipple	48235	1	Packing washer
11904	1	Packing nut	48237	1	Plunger packing washer
11905	1	Packing cap	48482	1	Washer
11906	4	Valve seat bolt	48488	1	Star washer
11947	1	Trip sleeve	48639	1	Washer
12511	1	Pipe plug	48640	1	Washer
12834	1	Spring retainer	50016	4	Screw
12898	1	Valve body	50423	4	Screw
14484	1	Piston rod	51009	4	Nut
14485	1	Piston bolt	51040	1	Nut
14486	1	Piston	55137	1	Spring
14487	1	Check	55138	4	Spring
14488	1	Check	55231	1	Spring
14489	3	Check retaining screw	56038	2	Spring
14490	4	Tie rod	56112	1	Spring
14494	1	Outlet check body	61041	2	Air cylinder
14495	1	Outlet check adapter	61396	1	Valve tube
14824	1	Sleeve	61502	1	Air passage tube
16633	1	Gland spacer	61610	1	Tube
16634	1	Gland nut	66010	2	Ball
30003	1	Packing nut gasket	66130	1	Screw
30011	1	Valve cap gasket	66144	1	Steel ball
31151	1	Gasket	66725	1	Retaining ring
33014	4	Air cylinder gasket	66727	1	Roll pin
33039	1	Gasket	66728	1	Ball
34090	1	Air piston packing	66729	1	Float & spring arm
34110	1	Plunger packing	72036	1	Air hose
34158	1	Cover gasket	73036	1	Volume hose
34256	1	O-ring	81721	1	Valve slide assembly
34349	1	O-ring	82466	1	Low level cut-off
34368	2	O-ring	83810	1	Check assembly
34398	1	O-ring	84380	1	Extensible suction tube
34782	2	Gland packing	84381	1	Suction tube & bushing
34828	1	O-ring	91331	1	Toggle plate assembly
34829	2	O-ring	92260	1	Trip rod assembly
35083	1	Trip rod packing	93357	1	Suction tube assembly
40430	1	Bung bushing			

TYPICAL BULK TANK INSTALLATION



Fluid Pump inside of building with
lubricant piped from an outside underground reservoir.

RETAIN THIS INFORMATION FOR FUTURE REFERENCE

When ordering replacement parts, list: Part Number, Description, Model Number, and Series Letter.

LINCOLN provides a Distributor Network that stocks equipment and replacement parts.

A list of Authorized Service Departments will be furnished upon request.