

MCLP PUMP

ANGLE DRIVE

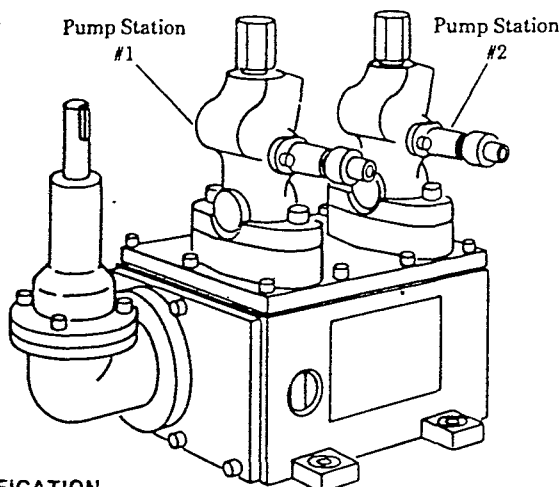


Models 130400, 130450 130500 & 130550 SERIES' Series "C"

DESCRIPTION

MCLP Pumps are plunger-type pumps, the plunger being actuated by a roller tappet assembly which is operated by the rotation of a cam.

Available with one or two adjustable pump heads, having either a 6mm or 10mm piston, and with single or double lobe cams. Dual head pumps can deliver a different oil from each pump head if required. Pump output can be regulated, by turning the adjustment knob on the front of the pump, to deliver from two pints per day to 250 pints per day from each pump head. An anchor cross, containing a purge port, rupture indicator, and outlet connection is supplied with each pump head.



MODEL IDENTIFICATION

- 130400 Series - L.H. Right Angle Drive, Short Drive Shaft.
- 130450 Series - R.H. Right Angle Drive, Short Drive Shaft.
- 130500 Series - L.H. Right Angle Drive, Long Drive Shaft.
- 130550 Series - R.H. Right Angle Drive, Long Drive Shaft.

CODE LETTER IDENTIFICATION

The Drive Ratio for the MCLP Pumps will be specified by the first letter following the 130000 number:

Code	A	B	C	D	E	F	G	H
Ratio	1:1	2:1	2.78:1	4:1	5.6:1	7.7:1	8:1	11.1:1
Code	J	K	L	M	N	P	R	S
Ratio	15.5:1	21.5:1	1:2	1:2.78	1:4	1:5.6	1:7.7	1:8

The output pressure of the 6mm & 10mm MCLP Pump Head is limited with some of the above ratios. For a complete explanation, contact factory.

The second and third letters following the 130000 number represent Pump Stations #1 and #2 respectively:

CODE	CAM	PUMPS*
A	15036 (single lobe)	130123 (w/6mm plunger)
B	16358 (double lobe)	130123 (w/6mm plunger)
C	15036 (single lobe)	130124 (w/10mm plunger)
D	16358 (double lobe)	130124 (w/10mm plunger)
**E	15036 (single lobe)	None
**F	16358 (double lobe)	None
***O	None	None

*Refer to Section M1, Page 6 Series for all pumps.

**Pump stations designated by E and F include mounting screws. Pump or pump station cover not included.

***Pump stations designated by O; cam, pump and roller tappet assembly are replaced by spacer and pump station cover.

INSTALLATION

Mount the MCLP Pump to a rigid support or frame adjacent to the engine drive shaft or electric motor shaft. Carefully align the pump to the drive shaft. Fill the gear box to the half-way mark of the sight glass with Conoco SAE 80W-90 gear oil or equivalent before running the pump. The pump unit and the lubrication system should be purged of any entrapped air to ensure reliable oil delivery.

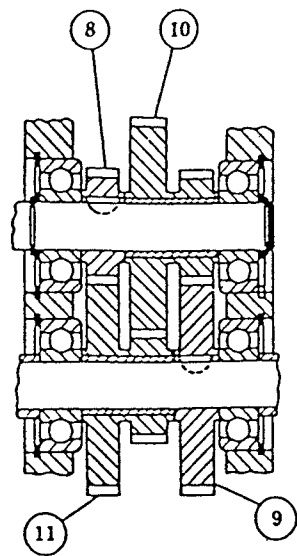
BLEEDING MCLP PUMP UNIT

- 1) Connect filter primer to MCLP Pump inlet.
- 2) Loosen the bleed screw on the pump head and allow oil to flow freely from the bleed screw until air bubbles no longer appear in the oil.
- 3) Set the MCLP Pump head to maximum output.
- 4) Loosen the outlet connection on the anchor cross and allow the pump to run until air bubbles no longer appear at the outlet. Tighten the outlet connection and turn off the pump.

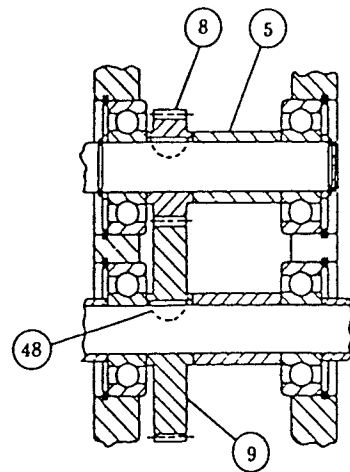


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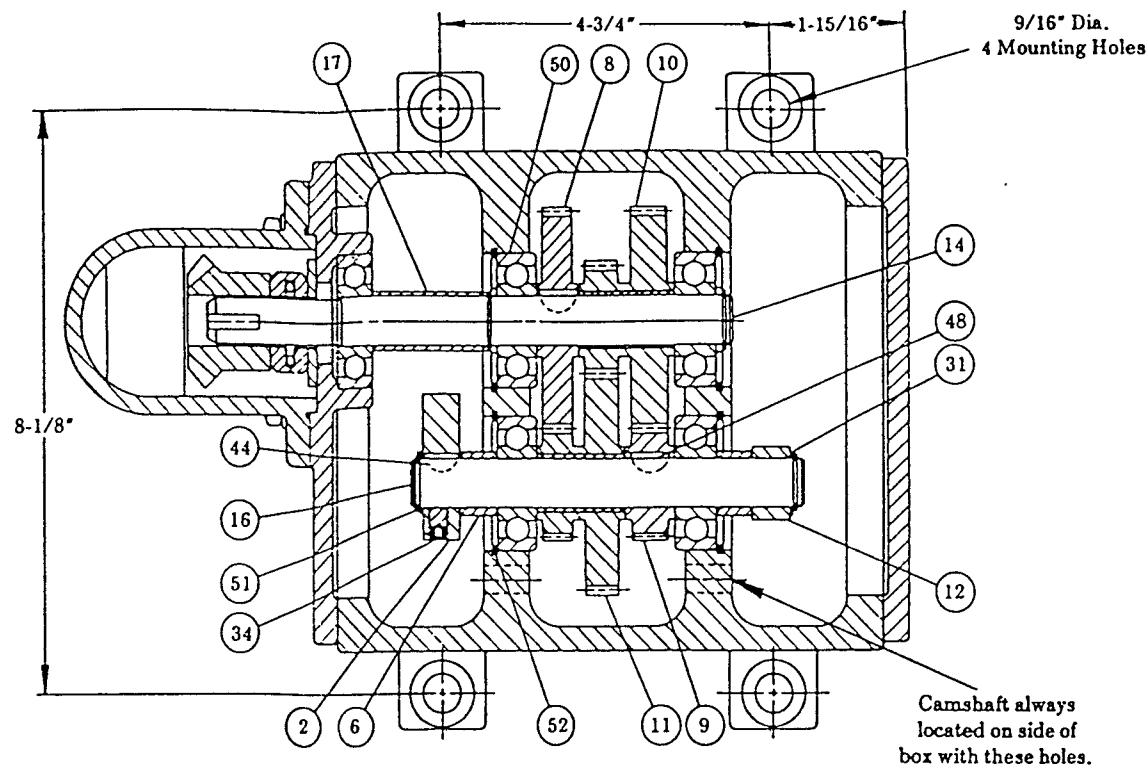
SECTION -M20
PAGE - 3C



Gear location shown for reduction ratios.

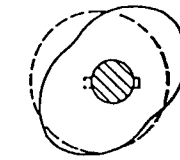


Gear train for 1:1, 2:1, 2.78:1, 1:2 & 1:2.78 Drive Ratios only.

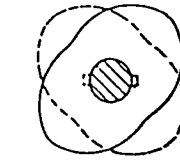


Camshaft always located on side of box with these holes.

CAM LOCATION



When one single and one double lobe cam is required, cams should be offset as shown in the above view.



When two double lobe cams are required, cams should be offset at 90° as shown in the above view.

NOTE:

Use Conoco SAE 80W-90 gear oil or equivalent in gear housing.

Change oil every 3 to 6 months.

★ Oil level should not rise above top of view gauge. Drain through this plug.

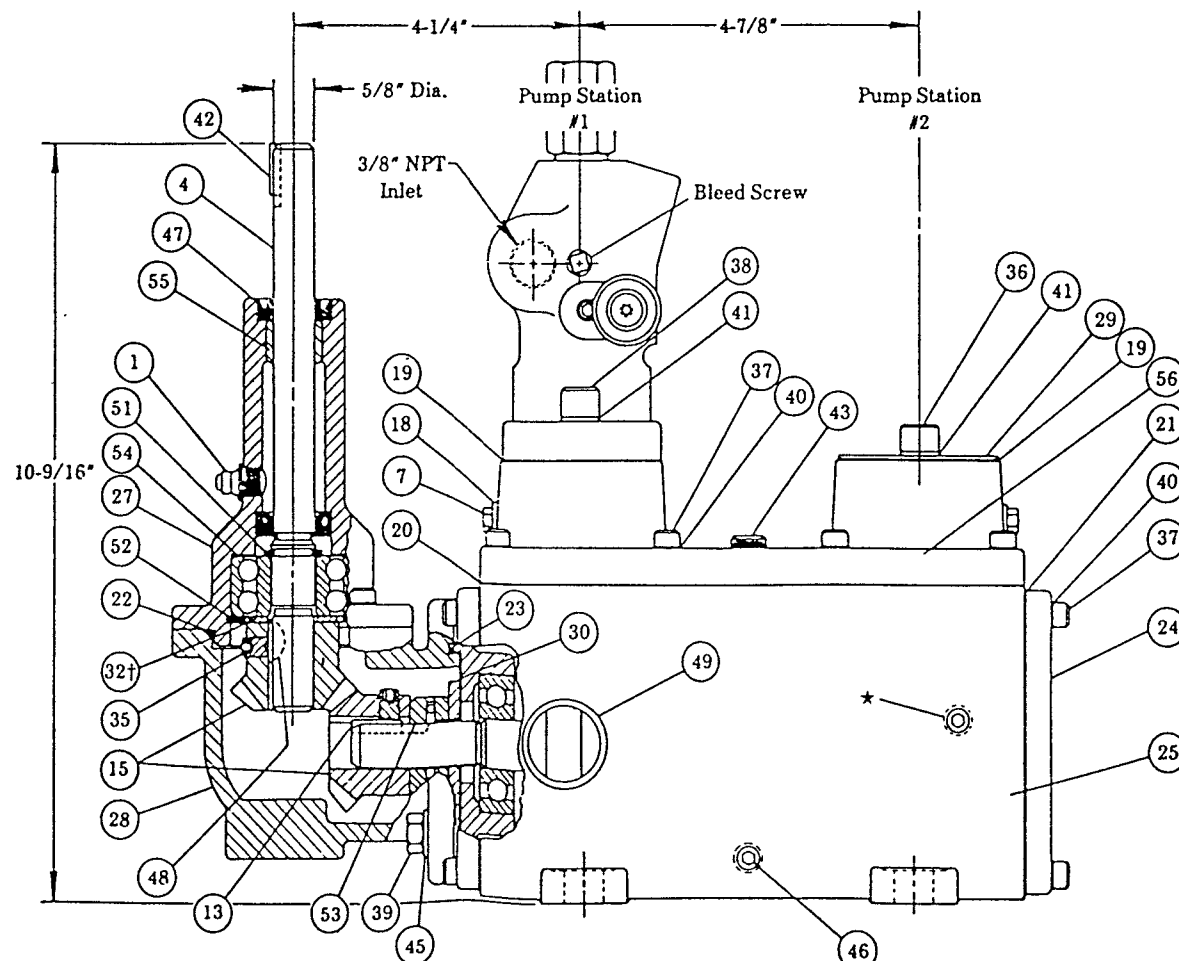
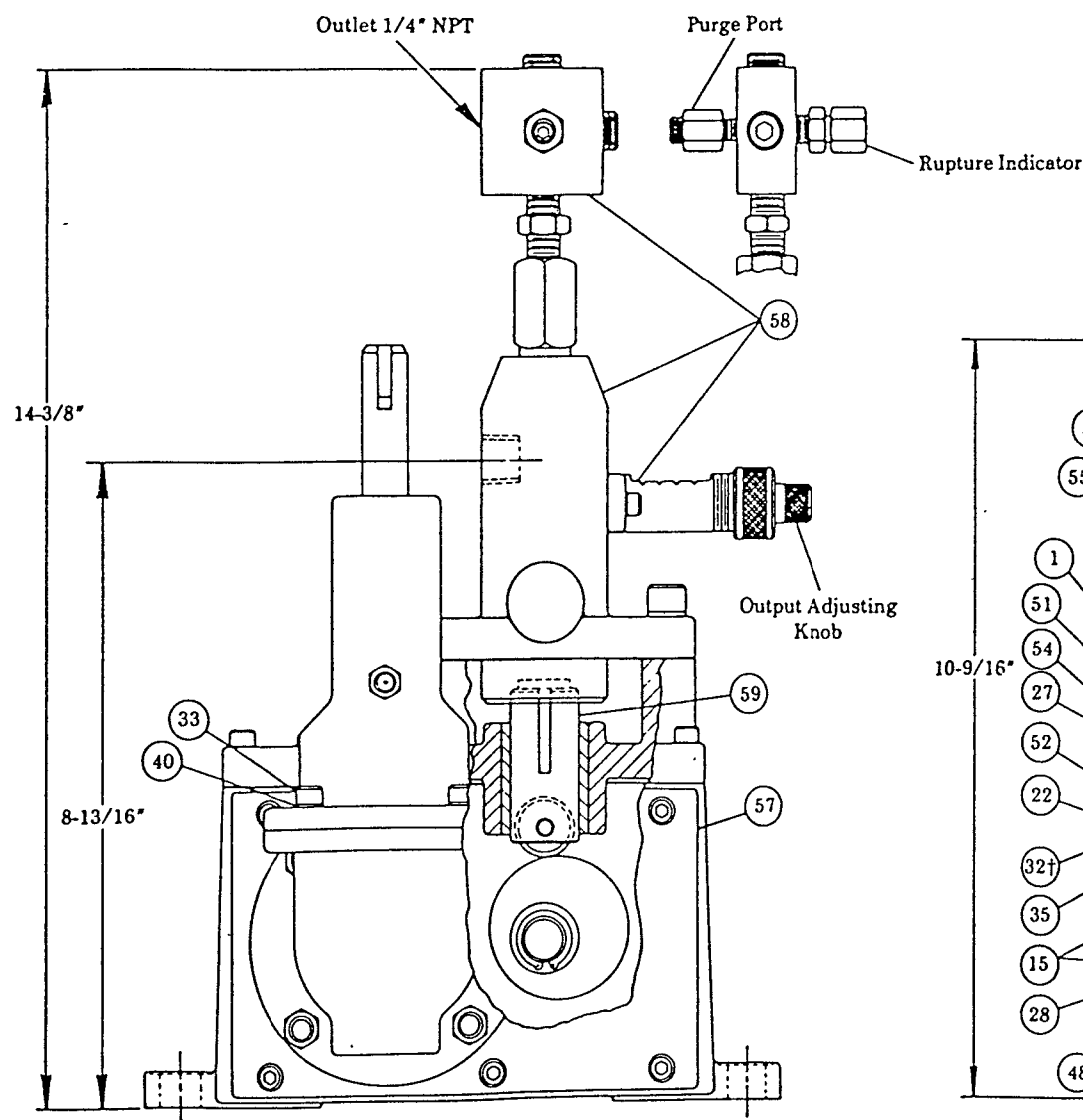
† Use as required to obtain a maximum of .015 vertical movement of drive shaft.

On one station unit, locate pump in pump station nearest drive.

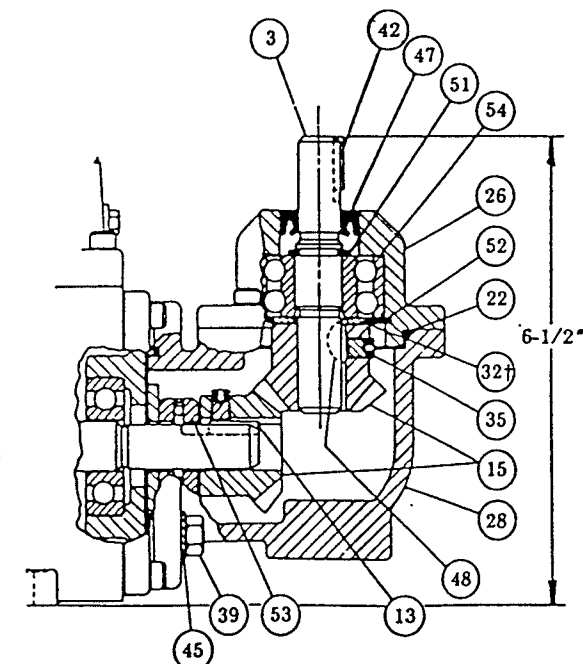
When using two pumps, purge ports must be installed facing outside of gear housing.

Cam, set screw, key & roller tappet must be omitted when no cam is required. Use 15438 Spacer as shown.

L.H. Drive shown. For R.H. Drive: drive shaft, end plates, etc. must be changed accordingly. R.H. Drive gear train is reversed from L.H. Drive. Gear location shown for step-up ratios.



MODEL 130500 L.H. & 130550 R.H. MCLP PUMPS RIGHT ANGLE DRIVE (w/ LONG DRIVE SHAFT)



MODEL 130400 L.H. & 130450 R.H. MCLP PUMPS RIGHT ANGLE DRIVE (w/ SHORT DRIVE SHAFT)

		Code						
		3	4	8	9	10	11	†† 42
Ratio	1:1	15206	15322	15445	15445	—	—	66652
	2:1	15206	15322	15475	15439	—	—	66652
	2.78:1	15206	15322	15374	15390	—	—	66652
	4:1	15206	15322	15445	15439	92875	92890	66652
	5.6:1	15206	15322	15445	15439	92876	92880	66652
	7.7:1	15206	15322	15445	15390	92862	92880	66652
	8:1	15206	15322	15475	15439	92875	92875	66652
	11.1:1	15206	15322	15374	15439	92875	92876	66652
	15.5:1	15206	15322	15374	15439	92876	92862	66652
	21.5:1	15206	15322	15374	15390	92862	92862	66652
	1:2	16340	15955	15439	15475	—	—	15474
	1:2.78	16340	15955	15390	15374	—	—	15474
	1:4	16340	15955	15439	15445	92890	92875	15474
	1:5.6	16340	15955	15439	15445	92880	92876	15474
	1:7.7	16340	15955	15390	15445	92880	92862	15474
	1:8	16340	15955	15439	15475	92875	92875	15474

†† 15474 1/8" Wide Key
66652 3/16" Wide Key

SERVICE PARTS

CODE	PART	QUAN.	DESCRIPTION	CODE	PART	QUAN.	DESCRIPTION
1	5000	1	Lube fitting	31	48564	4	Washer
2	*	As req'd	Cam	32	48582	†	Shim
3	**	1	Drive shaft (short)	33	50521	4	Screw
4	**	1	Drive shaft (long)	34	50522	As req'd	Set screw
5	15367	2	Spacer	35	50555	2	Set screw
6	15368	2	Spacer	36	50792	As req'd	Screw
7	15369	2	Tappet alignment screw	37	50833	22	Screw
8	**	1	Spur gear - plain	38	50849	As req'd	Screw
9	**	1	Spur gear - plain	39	51026	4	Nut
10	**	1	Spur gear - cluster	40	66186	26	Lockwasher
11	**	1	Spur gear - cluster	41	66220	4	Lockwasher
12	15438	As req'd	Spacer	42	**	1	Key
13	15474	1	Key	43	67359	1	Pipe plug
14	15476	1	Drive shaft	44	68220	As req'd	#3 Woodruff key
15	15836	2	Miter gear	45	68436	4	Lockwasher
16	16357	1	Camshaft	46	68645	4	Pipe plug
17	16376	1	Spacer	47	69853	As req'd	Oil seal
18	31163	2	Gasket	48	69973-1	3	#5 Woodruff key
19	33131	2	Pump gasket	49	69985	2	View gauge
20	33132	1	Top cover gasket	50	69986	5	Bearing
21	33133	2	End plate gasket	51	69987	5	Retaining ring
22	34634	1	O-ring	52	69988	5	Retaining ring
23	34674	1	O-ring	53	70075	1	Thrust bearing
24	40719	1	Blank end plate	54	70150	1	Bearing
25	40721	1	Gear case housing	55	70151	1	Roller bearing
26	40771	1	Drive shaft support housing	56	92863	1	Gear case cover assembly
27	40774	1	Drive shaft support housing	57	93324	1	Drive end plate assembly
28	40801	1	Drive housing	58	***	As req'd	Pump head assembly
29	45989	As req'd	Pump station cover	59	880124	As req'd	Roller tappet assembly
30	48558	1	Washer				

* 15036 Single Lobe Cam or 16358 Double Lobe Cam as designated.

** See chart above

*** 6mm pump or 10mm pump as required. See Code Chart on front page.

† Use as required to obtain a maximum of .015 vertical movement of drive shaft.

————— RETAIN THIS INFORMATION FOR FUTURE REFERENCE —————

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

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