

Lobe Pump and Machinery Co.

#M102011-G, EFFECTIVE July 1, 2011

Gear Pump Model Number

Base Model	Shaft Seal	Relief Valve	Other Options
*	-	*	*

BRONZE GEAR PUMPS-HEAVY DUTY

Base Model	NPT Port	Net Wt.
1LOL	1/8"	2 1/2#
2LOL	1/4"	3 1/2#
3LOL	3/8"	5 1/2#
4LOL	1/2"	6#
6LOL	3/4"	8 3/4#
8LOL	1"	9 1/2#
10LOL	1 1/4"	21#
12LOL	1 1/2"	26#

316 STAINLESS STEEL GEAR PUMPS W/PTFE PACKED SHAFT

Base Model	NPT Port	Net Wt.
2LOE-S	1/4"	3#
3LOE-S	3/8"	3 1/2#
4LOE-S	1/2"	3 3/4#
6LOE-S	3/4"	4 1/2#
8LOE-S	1"	5#

Includes standard PTFE shaft packing

BRONZE GEAR PUMPS-STD DUTY PACKED SHAFT

3LOS	3/8"	3#
4LOS	1/2"	4#
6LOS	3/4"	5#
8LOS	1"	6#

316 SS W/INTEGRAL MECHANICAL SEAL

Base Model	NPT Port	Net Wt.	MECHANICAL SEAL OPTIONS		
			(2) Type 2106 Viton	(1) Type 1 Viton	(9) Type 9 PTFE
2LOX-S	1/4"	4.5#			
3LOX-S	3/8"	5#			
4LOX-S	1/2"	5.25#			
6LOX-S	3/4"	6#			
8LOX-S	1"	6.5#			

BRONZE GEAR PUMPS - MECHANICAL SHAFT SEAL STD

4LOM	1/2"	
6LOM	3/4"	
8LOM	1"	

ALLOY 20 (CARPENTER 20™) GEAR PUMP

Base Model	NPT Port	Net Wt.
3LOE-C	3/8"	3#
6LOE-C	3/4"	5#

NICKEL ALLOY GEAR PUMPS-STD DUTY PACKED SHAFT

Base Model	NPT Port	Net Wt.
3LAL	3/8"	3#
4LAL	1/2"	3 1/2#
6LAL	3/4"	4#
8LAL	1"	5#
10LAL	1-1/4"	15#
12LAL	1 1/2"	20#

MONEL GEAR PUMP

Base Model	NPT Port	Net Wt.
3LOE-M	3/8"	3#

CAST IRON GEAR PUMP

Base Model	NPT Port	Net Wt.
3LOI	3/8"	4 1/2#
6LOI	3/4"	7#

SHAFT SEAL OPTIONS - AVAILABLE FOR MODELS INDICATED IN RIGHT COLUMN

Number	Description	For Pump Models
P	Standard Graphited Rope Packing	LOS, LOL, LOI
7	Braided PTFE (Teflon®) Rope Packing	LOE, LAL
6	Braided PTFE (Teflon®) Rope Packing - FDA Compliant	LOE, LAL
6F	Braided PTFE (Teflon®) Rope Packing - FDA Compliant	LOS, LOL
5	Buna Lip Seal	LOL, LOI
4	FKM Lip Seal (Fluoroelastomer, Viton®)	LOL, LOI
8	Buna Lip Seal	LOM, LAN
8V	FKM Lip Seal (Fluoroelastomer, Viton®)	LOM, LAN
3	Type 2106 Mechanical Seal Assembly - Carbon/Ceramic Face, FMK (Viton®) Elastomers	LOL, LOI, LAL
2	Type 2106 Mechanical Seal Assembly including; 316 SS Housing, Carbon/Ceramic Face Seals, FMK (Viton®) Elastomers - Std Duty	LOE-C,S,M
1	Type 1 Mechanical Seal Assembly including; 316 SS Housing, Carbon/Ceramic Face Seals, FMK (Viton®) Elastomers - Heavy Duty	LOE-C,S,M
1T	Type 1 Mechanical Seal Assembly including; 316 SS Housing, Glass Filled PTFE /Ceramic Face Seals, FMK (Viton®) Elastomers. CARBON FREE APPLICATIONS	LOE-C,S,M
9	Type 9 Mechanical Seal Assembly including; 316 SS Housing, Carbon/Ceramic Face Seals, PTFE (Teflon®) Elastomers	LOE-C,S,M
9T	Type 9 Mechanical Seal Assembly including; 316 SS Housing, Glass Filled PTFE /Ceramic Face Seals, PTFE (Teflon®) Elastomers. CARBON FREE APPLICATIONS	LOE-C,S,M
9C	Type 9 Mechanical Seal Assembly including; Alloy 20 SS Housing , Carbon/Ceramic Face Seals, PTFE (Teflon®) Elastomers	LOE-C,S,M

* These price adders are for the model LOE with the old style mechanical seal. Do not use for model LOX

OTHER OPTIONS

ADJUSTABLE INTEGRAL RELIEF VALVE

Part #	Description
RVS	LOS 5-100 PSI Poppet Style Relief Valve
RVL	LOL 5-100 PSI Poppet Style Relief Valve (Large Body)

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ADJUSTABLE EXTERNAL RELIEF VALVE

<u>Part #</u>	<u>Description</u>
ERV	LOE-S, C, M external adjustable relief valve kit

GEAR SHAFT JOURNAL BEARINGS

<u>Part #</u>	<u>Description</u>
DB	Acetal (Delrin TM) Journal Bearings(Std in LAL)
RB	Glass Filled PTFE (Rulon TM) Journal Bearings
SB	Special Journal Bearings - Specify Material

SPECIAL IDLER GEARS - FOR LOE STAINLESS STEEL PUMPS

<u>Part #</u>	<u>Description</u>
PG	2 LOE Pactene (UHMW) Idler Gear
PG	3 LOE Pactene (UHMW) Idler Gear
PG	4 LOE Pactene (UHMW) Idler Gear
PG	6 LOE Pactene (UHMW) Idler Gear
PG	8 LOE Pactene (UHMW) Idler Gear
SG	Special Material

SHAFT MODIFICATIONS

<u>Part #</u>	<u>Description</u>
KS-(*)	Keyed Shaft - *(Call out size)
SL-(*)	Special Shaft Length- *(Call out length)
BS	Bottom Drive Shaft

OTHER

<u>Part #</u>	<u>Description</u>
S	Cover Screw, Allen Head , 8-32 X 1/2 - Black Oxide Steel
PX	Special Porting
TX	PTFE Gaskets for Bronze Pumps
XX	Application Specific Special Option

LIMITED WARRANTY

Lobee Pump & Machinery Company, for a period of ninety (90) days after date of shipment from its plant, guarantees all products and parts to be free of defects in material and workmanship when properly installed and operated. Defects arising from damage in shipment, misuse, negligence or faulty installation are not covered by this warranty. Written notice of any defect must be given to the Company and any defective part or product must be returned to the Company's plant at Buyer's expense. The exclusive remedy for defects is the repair or replacement of products or parts which, upon inspection by the Company, are found to be defective. Merchandise not of the Company's manufacture supplied in piece, or in component assemblies, is not covered by the above warranty of the original manufacturer and the Company will give the Buyer the benefit of any such adjustment as it can make with the supplier. Lobee Pump & Machinery Company will in no event be liable for incidental or consequential damages of any kind whatsoever.

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Gear Pump Mounted Unit Model Number

Gear Pump Model	Mount Style	Motor	Other Options
*	-	*	*

**** Use this sheet once you have completed sizing a gear pump - Step 1)** Determine how pump will be mounted; choose from 'Base Mount' or 'Direct Mount' configurations. **Step 2)** Select motor; choose enclosure, horsepower, frame and voltage. **Step 3)** Add any options; Variable Speed Drive (Inverter), Special Materials, Enclosures, Etc.

BASE MOUNT

Number	Size	Description	Weight
BM4	10" x 20"	Pump/Motor Mounted on Steel Base, complete with Coupling & Guard for 56 Frame Motors	14#
BM5	10" x 24"	Pump/Motor Mounted on Steel Base, complete with Coupling & Guard for 56-215 Frame Motors	16#
BM6	10" x 28"	Pump/Motor Mounted on Steel Base, complete with Coupling & Guard for 56-256 Frame Motors	20#

DIRECT MOUNT

Number	Description	Weight
DM	Pump Direct Mounted to Motor with Bracket/SAE C Face Adapter. Pump Unit Uses Motor Foot Mount for Installation.	

MOTORS

Single Phase

*Please call for 1200 RPM motor pricing. We recommend using an inverter for low RPM applications, please see below for sizing and pricing.

Open Drip Proof (ODP), Foot Mount

Part #	H.P.	Frame	R.P.M.	Volt/Phase/Hz	Weight
M10	1/4	56C	1800	115-208-1-60	
M11	1/3	56C	1800	115-208/230-1-60	
M12	1/2	56C	1800	115-208/230-1-60	
M13	3/4	56C	1800	115-208/230-1-60	
M14	1	56HC	1800	115-208/230-1-60	
M15	1 1/2	56HC	1800	115-208/230-1-60	
M16	1 1/2	145TC	1800	115-208/230-1-60	
M17	2	56HC	1800	115-208/230-1-60	
M18	3	184T	1800	208/230-1-60	
M19	5	184T	1800	208/230-1-60	

Totally Enclosed Fan-Cooled (TEFC), Foot Mount

Part #	H.P.	Frame	R.P.M.	Volt/Phase/Hz	Weight
M20	1/4	56C	1800	115-208-1-60	
M21	1/3	56C	1800	115-208-1-60	
M22	1/2	56C	1800	115-208-1-60	
M23	3/4	56C	1800	115-208-1-60	
M24	1	56C	1800	115-208-1-60	
M25	1 1/2	56C	1800	115-208-1-60	

Totally Enclosed Fan-Cooled (TEFC), Foot Mount, High Efficiency

Part #	H.P.	Frame	R.P.M.	Volt/Phase/Hz	Weight
M26	2	G145T	1800	208/230-1-60	
M27	3	184T	1800	208/230-1-60	
M28	5	184T	1800	208/230-1-60	

Explosion Proof, Ball bearing, Base-mounted Motors:

Part #	H.P.	Frame	R.P.M.	Volt/Phase/Hz	Weight
M30	1/4	48	1800	115/230-1-60	
M31	1/3	56	1800	115/230-1-60	
M32	1/2	56	1800	115/230-1-60	
M33	3/4	56	1800	115/230-1-60	
M34	1	56H	1800	115/230-1-60	
M35	1 1/2	184	1800	115/230-1-60	
M36	2	182T	1800	115/230-1-60	
M37	3	215	1800	115/230-1-60	
M38	5	215T	1800	115/230-1-60	

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Three Phase

*Please call for 1200 RPM motor pricing. We recommend using an inverter for low RPM applications, please see below for sizing and pricing.

Open Drip Proof (ODP), Foot Mount

<u>Part #</u>	<u>H.P.</u>	<u>Frame</u>	<u>R.P.M.</u>	<u>Volt/Phase/Hz</u>	<u>Weight</u>
M40	1/4	56C	1800	208-230/460-3-60	
M41	1/3	56C	1800	208-230/460-3-60	
M42	1/2	56C	1800	208-230/460-3-60	
M43	3/4	56C	1800	208-230/460-3-60	
M44	1	56C	1800	208-230/460-3-60	
M45	1 1/2	56C	1800	208-230/460-3-60	
M46	2	56HC	1800	208-230/460-3-60	
M470	3	182T	1800	208-230/460-3-60	
M480	5	184T	1800	208-230/460-3-60	

Totally Enclosed Fan-Cooled (TEFC), Foot Mount

<u>Part #</u>	<u>H.P.</u>	<u>Frame</u>	<u>R.P.M.</u>	<u>Volt/Phase/Hz</u>	<u>Weight</u>
M50	1/4	56C	1800	208-230/460-3-60	
M51	1/3	56C	1800	208-230/460-3-60	
M52	1/2	56C	1800	208-230/460-3-60	
M52L	1/2	56C	1800	208-230/460-3-60	
M53	3/4	56C	1800	208-230/460-3-60	
M54	1	56C	1800	208-230/460-3-60	
M55	1 1/2	56C	1800	208-230/460-3-60	
M56	2	145TC	1800	208-230/460-3-60	
M57	3	182TC	1800	208-230/460-3-60	
M58	5	184TC	1800	208-230/460-3-60	

MXX(I) part numbers are Inverter Duty Rated

Explosion Proof (XP), Foot Mounted, Std Efficiency

<u>Part #</u>	<u>H.P.</u>	<u>Frame</u>	<u>R.P.M.</u>	<u>Volt/Phase/Hz</u>	<u>Weight</u>
M61	1/3	56C	1800	208-230/460-3-60	
M62	1/2	56C	1800	208-230/460-3-60	
M63	3/4	56C	1800	208-230/460-3-60	

Explosion Proof (XP), Foot Mounted, High Efficiency

<u>Part #</u>	<u>H.P.</u>	<u>Frame</u>	<u>R.P.M.</u>	<u>Volt/Phase/Hz</u>	<u>Weight</u>
M64	1	143TC	1800	208-230/460-3-60	
M64T	1	143T	1800	208-230/460-3-60	
M65	1 1/2	145TC	1800	208-230/460-3-60	
M65T	1 1/2	145T	1800	208-230/460-3-60	
M66	2	145TC	1800	208-230/460-3-60	
M66T	2	145T	1800	208-230/460-3-60	
M67	3	182TC	1800	208-230/460-3-60	
M67T	3	182T	1800	208-230/460-3-60	
M68	5	184TC	1800	208-230/460-3-60	
M68T	5	184T	1800	208-230/460-3-60	

MOTOR CONTROLS - INVERTERS

<u>Part #</u>	<u>Description</u>	<u>Operation</u>
V1	Inverter-Variable Speed Drive, NEMA 1	Up to 1 HP, 230VAC, 0-1800 RPM
V2	Inverter-Variable Speed Drive, NEMA 1	2 HP, 230VAC, 0-1800 RPM
V3	Inverter-Variable Speed Drive, NEMA 1	3 HP, 230VAC, 0-1800 RPM
V5	Inverter-Variable Speed Drive, NEMA 1	5 HP, 230VAC, 0-1800 RPM
V14	Inverter-Variable Speed Drive, NEMA 1	Up to 1 HP, 460VAC, 0-1800 RPM
V24	Inverter-Variable Speed Drive, NEMA 1	2 HP, 460VAC, 0-1800 RPM
V34	Inverter-Variable Speed Drive, NEMA 1	3 HP, 460VAC, 0-1800 RPM
V54	Inverter-Variable Speed Drive, NEMA 1	5 HP, 460VAC, 0-1800 RPM

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Available Gast Air Motor Options:

Model 2AM-FCC-1 Foot mounted, with Muffler	Call
Filter, Regulator, Gauge and Lubricator for 2AM	Call
Model 4AM-FRV-13C Foot mounted, with Muffler	Call
Filter,Regulator, Gauge and Lubricator for 4AM	Call
Model 6AM-FRV-5A Foot mounted, with Muffler	Call
Filter, Regulator, Gauge and Lubricator for 6AM	Call
Model 8AM-FRV-2B Foot mounted, with Muffler	Call
Filter, Regulator, Gauge and Lubricator for 8AM	Call

LIMITED WARRANTY

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Rebuild/Repair Kits for Gear Pumps

REPLACEMENT MECHANICAL SHAFT SEALS

<u>Part #</u>	<u>Description:</u>	<u>Fits Pump Models</u>
SS 3000-1	Viton Type 1 Mechanical Seal Repair Kit (For SS3000 Assembly)	All LOE, LOX Models
SS 3100-1	Teflon Type 9 Mechanical Seal Repair Kit (For SS3100 Assembly)	All LOE, LOX Models
SS 3001-1	Carbon Free Viton Type 1 Mechanical Seal Repair Kit (For SS3001 Assembly)	All LOE, LOX Models
SS 3002-1	Carbon Free Teflon Type 9 Mechanical Seal Repair Kit (For SS3102 Assembly)	All LOE, LOX Models
L2106-500	Viton Type 2106 Mechanical Seal Repair Kit - 1/2" Shaft (For H1001 and LOM Model Assemblies)	LOM, 1&2 LOL, LOX
L2106-625	Viton Type 2106 Mechanical Seal Repair Kit - 5/8" Shaft (For H1002 and H1003 Assemblies)	3, 4, 6, 8LOL, 3, 6LOI

OPTIONAL MECHANICAL SHAFT SEAL UPGRADE KITS - INCLUDES ALL PARTS TO UPGRADE STANDARD PACKED SHAFT SEAL PUMP

<u>Part #</u>	<u>Description</u>	<u>Fits Pump Models</u>
H1001	Mechanical Seal Assembly Type 2106 including; Bronze housing, carbon/ceramic face seals, Viton elastomers	1, 2LOL
H1002	Mechanical Seal Assembly Type 2106 including; Bronze housing, carbon/ceramic face seals, Viton elastomers	3, 4, 6, 8LOL
H1003	Mechanical Seal Assembly Type 2106 including; cold rolled steel housing, carbon/ceramic face seals, Viton elastomers	3, 6 LOI
SS 3000	Mechanical Seal Assembly including; 316 SS housing, Type 1 carbon/ceramic face seals, Viton elastomers	All LOE Models
SS 2106	Mechanical Seal Assembly including; 316 SS housing, Type 2106 carbon/ceramic face seals, Viton elastomers	All LOE Models
SS 3001	Mechanical Seal Assembly including; 316 SS housing, Type 1 with glass filled teflon /ceramic face seals, Viton elastomers	All LOE Models
SS 3100	Mechanical Seal Assembly including; 316 SS housing, Type 9 carbon/ceramic face seals, Teflon elastomers	All LOE Models
SS 3102	Mechanical Seal Assembly including; 316 SS housing, Type 9 with glass filled teflon /ceramic face seals, Teflon elastomers	All LOE Models
SS 3200	Mechanical Seal Assembly including; Alloy (Carpenter™) 20 SS housing , Type 9 with carbon/ceramic face seals, Teflon elastomers (LOE-C Only)	All LOE Models

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COMPLETE REBUILD KITS

2LOE-15RP REPAIR KIT FOR 2LOE-S PUMP

<u>- includes</u>	<u>Description:</u>
5 EACH	3SS 2 GASKET - TEFLON
5 EACH	LOE 12BL BEARING INSERT
1 EACH	3LOE-102S DRIVE SHAFT)
1 EACH	2LOE 75S IDLE SHAFT)
1 EACH	3SS 1489 GEAR PIN)
1 EACH	2LOE 72S GEAR - SS)
1 EACH	2LOE 72T GEAR - TEFLON)
1 EACH	3SS 59 PACKING
1 EACH	2LOE 17T LINER - TEFLON
2 EACH	2LOE 16T WASHER - TEFLON
2 EACH	3SS 11 SCREW - WASHER
2 EACH	3SS 18 SCREW - LINER
2 EACH	3SS 19 CAPNUT - LINER SCREW
2 EACH	3SS 20 GASKET - LINER SCREW

3LOE-15RP REPAIR KIT FOR 3LOE-S PUMP

<u>- includes</u>	<u>Description:</u>
5 EACH	3SS 2 GASKET - TEFLON
5 EACH	LOE 12BL BEARING INSERT
1 EACH	3LOE 102S DRIVE SHAFT)
1 EACH	3LOE 75S IDLE SHAFT)
1 EACH	3SS 1489 GEAR PIN)
1 EACH	3LOE 72S GEAR - SS)
1 EACH	3LOE 72T GEAR - TEFLON)
1 EACH	3SS 59 PACKING - TEFLON
1 EACH	3LOE 17T LINER - TEFLON
2 EACH	2LOE 16T WASHER - TEFLON
2 EACH	3SS 11 SCREW - WASHER
2 EACH	3SS 18 SCREW - LINER
2 EACH	3SS 19 CAPNUT - SCREW LINER
2 EACH	3SS 20 GASKET - LINER SCREW

4LOE-15RP REPAIR KIT FOR 4LOE-S PUMP

<u>- includes</u>	<u>Description:</u>
5 EACH	3SS 2 GASKET - TEFLON
5 EACH	LOE 12BL BEARING INSERT
1 EACH	3LOE 102S DRIVE SHAFT)
1 EACH	4LOE 75S IDLE SHAFT)
1 EACH	3SS 1489 GEAR PIN)
1 EACH	4LOE 72S GEAR - SS)
1 EACH	4LOE 72T GEAR - TEFLON)
1 EACH	3SS 59 PACKING - TEFLON
1 EACH	4LOE 17T LINER - TEFLON
2 EACH	2LOE 16T WASHER - TEFLON
2 EACH	3SS 11 SCREW - WASHER
2 EACH	3SS 18 SCREW - LINER
2 EACH	3SS 19 CAPNUT - SCREW LINER
2 EACH	3SS 20 GASKET - LINER SCREW

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6LOE-15RP REPAIR KIT FOR 6LOE-S PUMP

- includes

Description:

5 EACH	3SS 2 GASKET - TEFLON
5 EACH	LOE 12BL BEARING INSERT
1 EACH	3LOE 102S DRIVE SHAFT
1 EACH	6LOE 75S IDLE SHAFT
2 EACH	3SS 1489 GEAR PIN
1 EACH	6LOE 72S GEAR - SS
2 EACH	3LOE 72T GEAR - TEFLON
1 EACH	3SS 59 PACKING - TEFLON
1 EACH	6LOE 17T LINER -TEFLON
2 EACH	2LOE 16T WASHER - LINER
2 EACH	SCREW - WASHER
4 EACH	3SS 18 SCREW - - LINER
4 EACH	3SS 19 CAPNUT - LINER SCREW
4 EACH	3SS 20 GASKET - LINER SCREW

6LOE-15RPU REPAIR KIT FOR 6LOE-S PUMP WITH PACTENE GEAR

- includes

Description:

5 EACH	3SS 2 GASKET - TEFLON
5 EACH	LOE 12BL BEARING INSERT
1 EACH	3LOE 102S DRIVE SHAFT
1 EACH	6LOE 75S IDLE SHAFT
2 EACH	3SS 1489 GEAR PIN
1 EACH	6LOE 72S GEAR - SS
2 EACH	3LOE 72P GEAR - PACTENE
1 EACH	3SS 59 PACKING - TEFLON
1 EACH	6LOE 17T LINER -TEFLON
2 EACH	2LOE 16T WASHER - LINER
2 EACH	SCREW - WASHER
4 EACH	3SS 18 SCREW - - LINER
4 EACH	3SS 19 CAPNUT - LINER SCREW
4 EACH	3SS 20 GASKET - LINER SCREW

8LOE-15RP REPAIR KIT FOR 8LOE-S PUMP

- includes

Description:

5 EACH	3SS 2 GASKET - TEFLON
5 EACH	LOE 12BL BEARING INSERT
1 EACH	8LOE 102S DRIVE SHAFT
1 EACH	8LOE 75S IDLE SHAFT
2 EACH	SS 1489 GEAR PIN
1 EACH	8LOE 72S GEAR - SS
2 EACH	4LOE 72T GEAR - TEFLON
1 EACH	3SS 59 PACKING
1 EACH	8LOE 17T LINER - TEFLON
2 EACH	2LOE 16T WASHER - LINER
2 EACH	3SS 11 SCREW - WASHER
4 EACH	3SS 18 SCREW - LINER
4 EACH	3SS 19 CAPNUT - LINER SCREW
4 EACH	3SS 20 GASKET - LINER SCREW

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3LAL-15RP REPAIR KIT FOR 3LAL PUMP

- includes

Description:

3 EACH	3LOS 2 GASKET)
2 EACH	3LAL 72A GEAR)
1 EACH	3LOS 75D IDLE SHAFT)
1 EACH	3LOS 102D DRIVE SHAFT)
1 EACH	3SS 1489 GEAR PIN)
1 SET	3SS 59 PACKING)
1 EACH	4LAL 14 BUSHING - LONG)
3 EACH	4LAL 12 BUSHING - SHORT)

Assembly

4LAL-15RP REPAIR KIT FOR 4LAL PUMP

- includes

Description:

3 EACH	3LOS 2 GASKET)
2 EACH	4LAL 72A GEAR)
1 EACH	4LOS 75D IDLE SHAFT)
1 EACH	4LOS 102D DRIVE SHAFT)
1 EACH	3SS 1489 GEAR PIN)
1 SET	3SS 59 PACKING)
1 EACH	4LAL 14 BUSHING - LONG)
3 EACH	4LAL 12 BUSHING - SHORT)

Assembly

4LAL-15RPNB REPAIR KIT FOR 4LAL NOT BUSHED PUMP

- includes

Description:

3 EACH	3LOS 2 GASKET)
2 EACH	4LAL 72A GEAR)
1 EACH	4LOS 75D IDLE SHAFT)
1 EACH	4LOS 102D DRIVE SHAFT)
1 EACH	3SS 1489 GEAR PIN)
1 SET	3SS 59 PACKING)

Assembly

6LAL-15RP REPAIR KIT FOR 6LAL PUMP

- includes

Description:

3 EACH	3LOS 2 GASKET)
2 EACH	6LAL 72A GEAR)
1 EACH	6LOS 75D IDLE SHAFT)
1 EACH	6LOS 102D DRIVE SHAFT)
2 EACH	3SS 1489 GEAR PIN)
1 SET	3SS 59 PACKING)
1 EACH	4LAL 14 BUSHING - LONG)
3 EACH	4LAL 12 BUSHING - SHORT)

Assembly

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8LAL-15RP REPAIR KIT FOR 8LAL PUMP

<u>- includes</u>	<u>Description:</u>
3 EACH	3LOS 2 GASKET
2 EACH	8LAL 72A GEAR
1 EACH	8LOS 75D IDLE SHAFT
1 EACH	8LOS 102D DRIVE SHAFT
2 EACH	3SS 1489 GEAR PIN
1 SET	3SS 59 PACKING
1 EACH	4LAL 14 BUSHING - LONG
3 EACH	4LAL 12 BUSHING - SHORT

Assembly

1LOL-15RP REPAIR KIT FOR 1LOL PUMP

<u>- includes</u>	<u>Description:</u>
3 EACH	1LOL 2 GASKET
2 EACH	1LOL 72A GEAR
1 EACH	1LOL 75D IDLE SHAFT
1 EACH	1LOL 102D DRIVE SHAFT
2 EACH	1LOL 1489 GEAR PIN
1 EACH	3LOS 59 PACKING

Assembly

2LOL-15RP REPAIR KIT FOR 2LOL PUMP

<u>- includes</u>	<u>Description:</u>
3 EACH	2LOL 2 GASKET
2 EACH	2LOL 72A GEAR
1 EACH	2LOL 75D IDLE SHAFT
1 EACH	2LOL 102D DRIVE SHAFT
1 EACH	2LOL 1489 GEAR PIN
1 EACH	3LOS 59 PACKING

Assembly

3LOL-15RP REPAIR KIT FOR 3LOL PUMP

<u>- includes</u>	<u>Description:</u>
3 EACH	3LOL 2 GASKET
2 EACH	3LOL 72A GEAR
1 EACH	3LOL 75D IDLE SHAFT
1 EACH	3LOL 102D DRIVE SHAFT
1 EACH	3LOL 1489 GEAR PIN
1 EACH	3LOL 59 PACKING

Assembly

4LOL-15RP REPAIR KIT FOR 4LOL PUMP

<u>- includes</u>	<u>Description:</u>
3 EACH	3LOL 2 GASKET
2 EACH	4LOL 75A GEAR
1 EACH	4LOL 75D IDLE SHAFT
1 EACH	4LOL 102D DRIVE SHAFT
1 EACH	3LOL 1489 GEAR PIN
1 EACH	3LOL 59 PACKING

Assembly

Lobee Pump and Machinery Co.

10/11/2011

6LOL-15RP	REPAIR KIT FOR 6LOL PUMP	
<u>- includes</u>	<u>Description:</u>	
3 EACH	6LOL 2 GASKET	
2 EACH	6LOL 72A GEAR)))))
1 EACH	4LOL 75D IDLE SHAFT	
1 EACH	4LOL 102D DRIVE SHAFT	
2 EACH	6LOL 1489 GEAR PIN	
1 EACH	3LOL 59 PACKING	
		Assembly

8LOL-15RP	REPAIR KIT FOR 8LOL PUMP	
<u>- includes</u>	<u>Description:</u>	
3 EACH	6LOL2 GASKET	
2 EACH	8LOL 72A GEAR)))))
1 EACH	8LOL 75D IDLE SHAFT	
1 EACH	8LOL 102D DRIVE SHAFT	
2 EACH	6LOL 1489 GEAR PIN	
1 EACH	3LOL 59 PACKING	
		Assembly

3LOS-15	RP REPAIR KIT FOR 3LOS PUMP	
<u>- includes</u>	<u>Description:</u>	
3 EACH	3LOS 2 GASKET	
2 EACH	3LOS 72A GEAR)))))
1 EACH	3LOS 75D IDLE SHAFT	
1 EACH	3LOS 102D DRIVE SHAFT	
1 EACH	3LOS 1489 GEAR PIN	
1 SET	3LOS 59 PACKING	
		Assembly

4LOS-15RP	REPAIR KIT FOR 4LOS PUMP	
<u>- includes</u>	<u>Description:</u>	
3 EACH	3LOS 2 GASKET	
2 EACH	4LOS 72A GEAR)))))
1 EACH	4LOS 75D IDLE SHAFT	
1 EACH	4LOS 102D DRIVE SHAFT	
1 EACH	3LOS 1489 GEAR PIN	
1 SET	3LOS 59 PACKING	
		Assembly

6LOS-15RP	REPAIR KIT FOR 6LOS PUMP	
<u>- includes</u>	<u>Description:</u>	
3 EACH	3LOS 2 GASKET	
2 EACH	6LOS 72A GEAR)))))
1 EACH	6LOS 75D IDLE SHAFT	
1 EACH	6LOS 102D DRIVE SHAFT	
2 EACH	3LOS 1489 GEAR PIN	
1 SET	3LOS 59 PACKING	
		Assembly

Lobee Pump and Machinery Co.

10/11/2011

6LOS-15RPB W/BUSHINGS REPAIR KIT FOR 6LOS BUSHED PUMP

<u>- includes</u>	<u>Description:</u>	
3 EACH	3LOS 2 GASKET	
2 EACH	6LOS 72A GEAR)
1 EACH	6LOS 75D IDLE SHAFT)
1 EACH	6LOS 102 D DRIVE SHAFT)
2 EACH	3LOS 1489 GEAR PIN)
1 SET	3LOS 59 PACKING	
1 EACH	4LAL 14 BUSHING - LONG	
3 EACH	4LAL 12 BUSHING - SHORT	

Assembly

8LOS-15RP REPAIR KIT FOR 8LOS PUMP

<u>- includes</u>	<u>Description:</u>	
3 EACH	3LOS 2 GASKET	
2 EACH	8LOS 72A GEAR)
1 EACH	8LOS 75D IDLE SHAFT)
1 EACH	8LOS 102D DRIVE SHAFT)
2 EACH	3LOS 1489 GEAR PIN)
1 SET	3LOS 59 PACKING	

Assembly

Lobee Pump and Machinery Co.

#M132010-R, EFFECTIVE July 1, 2011

LOBEE GPM RATER MODEL NUMBER PRICING

Base Model	Port Size	Material (^)	Sight Glass
*	-	*	*

Base Model	NPT Port Size	Flow Range	Construction Material		
			Brass (^B)	PVC (^P)	Stainless Steel (^S)
RAF 404-	1/2"	1-4 GPM			
RAF 412-	1/2"	3-12 GPM			
RAF 608-	3/4"	2-8 GPM			
RAF 620-	3/4"	5-20 GPM			
RAF 812-	1"	3-12 GPM			
RAF 840-	1"	10-40 GPM			

Options	Part No.	Description
	HT	Brass High Temp Kit - Pyrex glass and Viton O-rings in brass raters, only.
	S	Substitute Acrylic sight glass for Pyrex -

When ordering use the letters B, P or S after the model number to designate the construction material.

LIMITED WARRANTY

Lobee Pump & Machinery Company, for a period of ninety (90) days after date of shipment from its plant, guarantees all products and parts to be free of defects in material and workmanship when properly installed and operated. Defects arising from damage in shipment, misuse, negligence or faulty installation are not covered by this warranty. Written notice of any defect must be given to the Company and any defective part or product must be returned to the Company's plant at Buyer's expense. The exclusive remedy for defects is the repair or replacement of products or parts which, upon inspection by the Company, are found to be defective. Merchandise not of the Company's manufacture supplied in piece, or in component assemblies, is not covered by the above warranty of the original manufacturer and the Company will give the Buyer the benefit of any such adjustment as it can make with the supplier. Lobee Pump & Machinery Company will in no event be liable for incidental or consequential damages of any kind whatsoever.

Lobee Pump and Machinery Co.

#M92111-S, EFFECTIVE September, 2011

Sump Pump Model Number Pricing

Base Model	Motor Size	Motor Phase	Length	Motor Type	Options/Accessories		
					Materials	Switching	Other
*	*	*	-	*	*	*	*

<u>Base Model</u>	<u>Description</u>
S/SH	Model "S/SH", Floor Mounted, General Purpose Float Switch
SA/SHA	Model "SA/SHA", Suspended Type, 20" Round Aluminum Split Cover, Discharge Pipe, General Purpose Float Switch

<u>Motor Size</u>	<u>Description</u>
3	1/3 HP, 1750 RPM Electric Motor
5	1/2 HP, 1750 RPM Electric Motor
7	3/4 HP, 1750 RPM Electric Motor
15	1 1/2 HP, 3450 RPM Electric Motor
20	2 HP, 3450 RPM Electric Motor
30	3 HP, 3450 RPM Electric Motor

<u>Motor Phase</u>	<u>Description</u>
S	Single
P	Three

<u>Length</u>	<u>Description</u>
2	2' Sump Depth
3	3' Sump Depth
4	4' Sump Depth
5	5' Sump Depth
6	6' Sump Depth
7	7' Sump Depth
8	8' Sump Depth
9	9' Sump Depth
10	10' Sump Depth
10+	Call for longer sump depth pricing

<u>Motor Type</u>	<u>Description</u>
O3	3 PH, 1/3 HP ODP (Open Drip Proof)
O2	3 PH, 1/2 HP ODP (Open Drip Proof)
O4	3 PH, 3/4 HP ODP (Open Drip Proof)
T13	1 PH, 1/3 HP, TEFC (Totally Enclosed Fan Cooled)
T12	1 PH, 1/2 HP, TEFC (Totally Enclosed Fan Cooled)
T14	1 PH, 3/4 HP, TEFC (Totally Enclosed Fan Cooled)
T33	3 PH, 1/3 HP, TEFC (Totally Enclosed Fan Cooled)
T32	3 PH, 1/2 HP, TEFC (Totally Enclosed Fan Cooled)
T34	3 PH, 3/4 HP, TEFC (Totally Enclosed Fan Cooled)
T35	3 PH, 1 1/2 HP, TEFC (Totally Enclosed Fan Cooled)
T36	3 PH, 2 HP, TEFC (Totally Enclosed Fan Cooled)
T37	3 PH, 3 HP, TEFC (Totally Enclosed Fan Cooled)
E13	1 PH, 1/3 HP, XP (Explosion Proof)
E12	1 PH, 1/2 HP, XP (Explosion Proof)
E14	1 PH, 3/4 HP, XP (Explosion Proof)
E33	3 PH, 1/3 HP, XP (Explosion Proof)
E32	3 PH, 1/2 HP, XP (Explosion Proof)
E34	3 PH, 3/4 HP, XP (Explosion Proof)
E35	3 PH, 1 1/2 HP, 3600 RPM, XP (Explosion Proof)
E36	3 PH, 2 HP, 3600 RPM, XP (Explosion Proof)
E37	3 PH, 3 HP, 3600 RPM, XP (Explosion Proof)

Single Duplex Part # Options and Accessories

Lobee Pump and Machinery Co.

#M92111-S, EFFECTIVE September, 2011

	WFS	Water-tight Float Switch, Square D9036, DW-31
	EFS	Explosion-proof Float Switch, Square D 9036, DR-31
	MA1	Mechanical Alternator (in lieu of two float switches) Square D 9038, AG-1 (open)
	MA2	Mechanical Alternator (in lieu of two float switches) Square D 9039, AW-1 (water-tight)
	MA3	Mechanical Alternator (in lieu of two float switches) Square D 9038, AR-1 (explosion-proof)
	HWA	High Water Alarm, LLC-1H (110/220V)
	VTC	Vapor-tight Construction
	SFR	Stainless Steel Float, Rod, Guide & Stops
	RB	Glass Filled Teflon (Rulon™) Lower Sleeve Bearing (High Temp and No-Brass/Bronze Applications)
	BI	Bronze Impeller
	BE	Bronze Pump End
	BCD	Bronze Column and Discharge Pipe, per foot
	SE	316 Stainless Steel Pump End
	-----	316 Stainless Steel Column and Discharge Pipe
	SCD	4 foot length or less
	SCD-(ft)	each additional foot
	14SC	14" diameter Steel Cover Plate
	20SC	20" diameter Steel Cover Plate
		(Above plates in lieu of 20" diameter Split Aluminum Cover Plate on SA models)

Duplex Sump Covers

<u>Round</u>	<u>Square</u>	<u>Part #</u>	<u>Size</u>
		DC20	20"
		DC27	27"
		DC30	30"
		DC40	40"

* For Simplex Sump Covers subtract \$40.00 from above prices.

Notes:

- 1) Reduce Total List Price by \$57.75 for sump pump supplied less float, rod, guide and stops.
- 2) Reduce Total List Price by \$94.50 for sump pump supplied less complete float assembly, including float switch and bracket.
- 3) For special voltages or motor name plates, refer to factory

******THERE IS A \$95.00 NET CRATING CHARGE PER PUMP UNIT**

LIMITED WARRANTY

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Lobee Pump and Machinery Co.

#M132010-CLR, EFFECTIVE July 1, 2011

CLR - Close Coupled Liquid Ring Pump Model Number Pricing

Base Model	Motor Number (HP)	Motor Type Number	Pump End Construction Materials			Optional Mechanical Seals			
			All Bronze	316 SS Impeller	All 316 SS	Viton Type 1	Teflon Type 9	Other	
*	*	*	*	or	*	or	*	or	*

<u>Base Model</u>	<u>Description</u>
8CLR	1" NPT close coupled drive motor, bronze fitted, packed shaft seal
12CLR	1 1/2" NPT close coupled drive motor, bronze fitted, packed shaft seal
16CLR	2" NPT close coupled drive motor, bronze fitted, packed shaft seal

<u>Motor Number</u>	<u>Horsepower</u>
10P	1
15P	1.5
20P	2
30P	3
50P	5

<u>Motor Type Number</u>	<u>Description</u>
T	All HP - TEFC (Totally Enclosed Fan Cooled), 3/60/208-230/460 - Standard
OS	1 HP, ODP (Open Drip Proof), 1/60/115-230
OS	1 1/2 HP, ODP (Open Drip Proof), 1/60/115-230
OS	2 HP, ODP (Open Drip Proof), 1/60/115-230
TS	3 HP, TEFC (ODP Not Available), 1/60/115-230
OS	5 HP, ODP (Open Drip Proof), 1/60/115-230 (5 hp is 230VAC only)

* FOR APPLICATIONS REQUIRING A HAZARDOUS LOCATION/EXPLOSION PROOF MOTOR USE BASE MODEL 'LR' TO BUILD A PUMP UNIT. THESE MOTORS ARE NOT AVAILABLE IN A CLOSE COUPLED 'CLR' VERSION. SEE #M132010-LR PRICE LIST

Options - Options - Options - Options - Options

<u>Part Number</u>	<u>For Model</u>	<u>Special Construction Materials</u>
-		Iron Pump End with Bronze Impeller - Standard
SI	8	316 SS Impeller Only
SI	12	316 SS Impeller Only
SI	16	316 SS Impeller Only
AB	8	All Bronze Pump End
AB	12	All Bronze Pump End
AB	16	All Bronze Pump End
AS	8	All 316 SS Pump End
AS	12	All 316 SS Pump End
AS	16	All 316 SS Pump End
SS	8	316 SS Motor/Drive Shaft Only
SS	12	316 SS Motor/Drive Shaft Only
SS	16	316 SS Motor/Drive Shaft Only

<u>Part Number</u>	<u>Shaft Seal</u>
MS9	PTFE Type 9 Mechanical Seal
MS1	Viton Type 1 Mechanical Seal, Heavy Duty
MS21	Viton Type 2100 Mechanical Seal
TP	PTFE Heavy Duty Packing
FE	Seal Cavity Flush Porting - External
FI	Seal Cavity Flush Porting - Internal

Most API Seal Flush Plans are available. Call for specific requirements

LIMITED WARRANTY

Lobee Pump & Machinery Company, for a period of ninety (90) days after date of shipment from its plant, guarantees all products and parts to be free of defects in material and workmanship when properly installed and operated. Defects arising from damage in shipment, misuse, negligence or faulty installation are not covered by this warranty. Written notice of any defect must be given to the Company and any defective part or product must be returned to the Company's plant at Buyer's expense. The exclusive remedy for defects is the repair or replacement of products or parts which, upon inspection by the Company, are found to be defective. Merchandise not of the Company's manufacture supplied in piece, or in component assemblies, is not covered by the above warranty of the original manufacturer and the Company will give the Buyer the benefit of any such adjustment as it can make with the supplier. Lobee Pump & Machinery Company will in no event be liable for incidental or consequential damages of any kind whatsoever.

Lobee Pump and Machinery Co.

#M102011-CHLR, EFFECTIVE APRIL 1, 2011

CHLR - High Performance Close Coupled Liquid Ring Pump Model Number Pricing

Example For Model #12CHLR50PTAS

Base Model	Pump End Construction Materials			Optional Mechanical Seals			Other	Total List Price
	All Bronze	316 SS Impeller	All 316 SS	Viton Type 1	Teflon Type 9			

<u>Base Model</u>	<u>Description</u>
8CHLR30PT	1" NPT close coupled drive motor, 3 HP 3520 RPM TEFC 3/60/208-230/460, HS balanced bronze impeller, type 2106 Viton™ mechanical seal
12CHLR50PT	1 1/2" NPT close coupled drive motor, 5 HP 3500 RPM TEFC 3/60/208-230/460, HS balanced bronze impeller, type 2106 Viton™ mechanical seal
12CHLR75PT	1 1/2" NPT close coupled drive motor, 7 1/2 HP 3500 RPM TEFC 3/60/230/460, HS balanced bronze impeller, type 2106 Viton™ mechanical seal
16CHLR100PT	2" NPT close coupled drive motor, 10 HP 3500 RPM TEFC 3/60/208-230/460, HS balanced bronze impeller, type 1 Viton™ mechanical seal
16CHLR150PT	2" NPT close coupled drive motor, 15 HP 3500 RPM TEFC 3/60/208-230/460, HS balanced bronze impeller, type 1 Viton™ mechanical seal

*** FOR APPLICATIONS REQUIRING A HAZARDOUS LOCATION/EXPLOSION PROOF OR WASHDOWN DUTY MOTOR USE BASE MODEL 'LR' TO BUILD A PUMP UNIT. THESE MOTORS ARE NOT AVAILABLE IN A CLOSE COUPLED CLR OR CHLR VERSION. SEE #M132010-LR PRICE LIST**

Options - Options - Options - Options - Options

<u>Part Number</u>	<u>For Model</u>	<u>Special Construction Materials</u>
-		Iron Pump End with Bronze Impeller - Standard
SI	8	316 SS Impeller Only
SI	12	316 SS Impeller Only
SI	16	316 SS Impeller Only
AB	8	All Bronze Pump End
AB	12	All Bronze Pump End
AB	16	All Bronze Pump End
AS	8	All 316 SS Pump End
AS	12	All 316 SS Pump End
AS	16	All 316 SS Pump End
SS	8	316 SS Motor/Drive Shaft Only
SS	12	316 SS Motor/Drive Shaft Only
SS	16	316 SS Motor/Drive Shaft Only

<u>Part Number</u>	<u>Shaft Seal</u>
MS9	16CHLR-PTFE Type 9 Mechanical Seal
MS9	8/12 CHLR PTFE Type 9 Mechanical Seal
MS1	8/12 CHLR Viton Type 1 Mechanical Seal (Standard on Model 16CHLR)
TP	PTFE Heavy Duty Packing
FE	Seal Cavity Flush Porting - External
FI	Seal Cavity Flush Porting - Internal

Most API Seal Flush Plans are available. Call for specific requirements

LIMITED WARRANTY

Lobee Pump & Machinery Company, for a period of ninety (90) days after date of shipment from its plant, guarantees all products and parts to be free of defects in material and workmanship when properly installed and operated. Defects arising from damage in shipment, misuse, negligence or faulty installation are not covered by this warranty. Written notice of any defect must be given to the Company and any defective part or product must be returned to the Company's plant at Buyer's expense. The exclusive remedy for defects is the repair or replacement of products or parts which, upon inspection by the Company, are found to be defective. Merchandise not of the Company's manufacture supplied in piece, or in component assemblies, is not covered by the above warranty of the original manufacturer and the Company will give the Buyer the benefit of any such adjustment as it can make with the supplier. Lobee Pump & Machinery Company will in no event be liable for incidental or consequential damages of any kind whatsoever.

Lobee Pump and Machinery Co.

#M132010-LR, EFFECTIVE July 1, 2011

LR-Liquid Ring Pump Model

Base Model	Pump End Construction Materials			Optional Mechanical Seals		Base Mount	Electric Motor
	All Bronze	316 SS Impeller	All 316 SS	Viton Type 1	Teflon Type 9		
*	*	or	*	or	*	*	*

<u>Base Model</u>	<u>Description</u>
8LR	1" NPT direct drive, bronze fitted, graphited acrylic packed shaft seal
12LR	1 1/2" NPT direct drive, bronze fitted, graphited acrylic packed shaft seal
16LR	2" NPT direct drive, bronze fitted, graphited acrylic packed shaft seal

Options - Options - Options - Options - Options

<u>Part Number</u>	<u>For Model</u>	<u>Special Construction Materials</u>
-		Iron Pump End with Bronze Impeller - Standard
SI	8	316 SS Impeller Only
SI	12	316 SS Impeller Only
SI	16	316 SS Impeller Only
AB	8	All Bronze Pump End
AB	12	All Bronze Pump End
AB	16	All Bronze Pump End
AS	8	All 316 SS Pump End
AS	12	All 316 SS Pump End
AS	16	All 316 SS Pump End

<u>Part Number</u>	<u>Mechanical Shaft Seal</u>
MS8	PTFE Type 9 Mechanical Seal
MS2	Viton Type 1 Mechanical Seal
TP	PTFE Heavy Duty Packing
FE	Seal Cavity Flush Porting - External
FI	Seal Cavity Flush Porting - Internal

Most API Seal Flush Plans are available. Call for specific requirements

<u>Part Number</u>	<u>Description - Base Mount</u>
8BM	Steel Base Mounted - Complete with coupling & guard
12BM	Steel Base Mounted - Complete with coupling & guard
16BM	Steel Base Mounted - Complete with coupling & guard

Explosion Proof (XP), Foot Mounted, High Efficiency - FOR LR TYPE BASE MOUNT PUMP UNITS ONLY

<u>Part #</u>	<u>H.P.</u>	<u>Frame</u>	<u>R.P.M.</u>	<u>Volt/Phase/Hz</u>	<u>Weight</u>
M64T	1	143T	1800	208-230/460-3-60	
M65T	1 1/2	145T	1800	208-230/460-3-60	
M66T	2	145T	1800	208-230/460-3-60	
M67T	3	182T	1800	208-230/460-3-60	
M68T	5	184T	1800	208-230/460-3-60	

Explosion Proof (XP), Foot Mounted, Premium Efficiency, 3600 RPM - FOR LR TYPE BASE MOUNT PUMP UNITS ONLY

M70T	3	184T	3520	230/460-3-60
M72T	5	184T	3500	230/460-3-60
M74T	10	215T	3500	230/460-3-60

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