

# MODULAR LUBE.

# Model Nos. 87219, 87234 87235 PUMPS

**CONTAINS VITON O-RINGS**

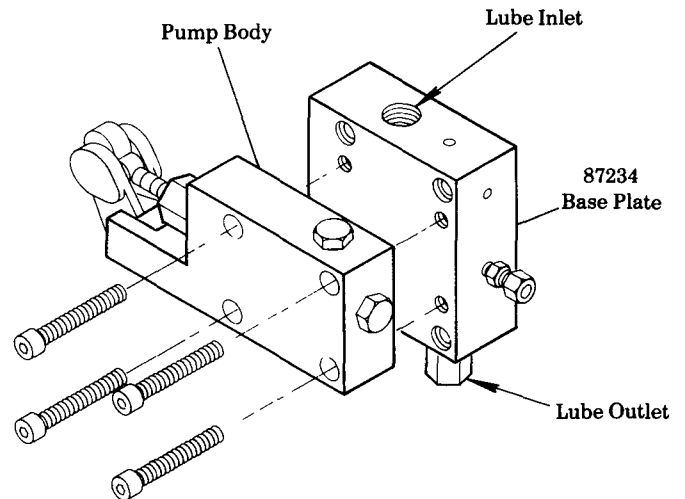
## OPERATION & INSTALLATION

These pumps are designed to provide lubrication cycles controlled by actual machine operation, not timed lubrication. All piping is connected to the base plate, allowing the pump body to be removed without disturbing the existing piping. Lubricant flow can be shut off using inlet valve in base plate, permitting removal of pump. Turn 16141 Inlet Shut-off Valve clockwise to close, counter-clockwise to open. Valve is fully open when it contacts 69819 Retainer.

A bleed screw is provided in the base plate to purge the pump during installation or when reservoir was allowed to run dry.

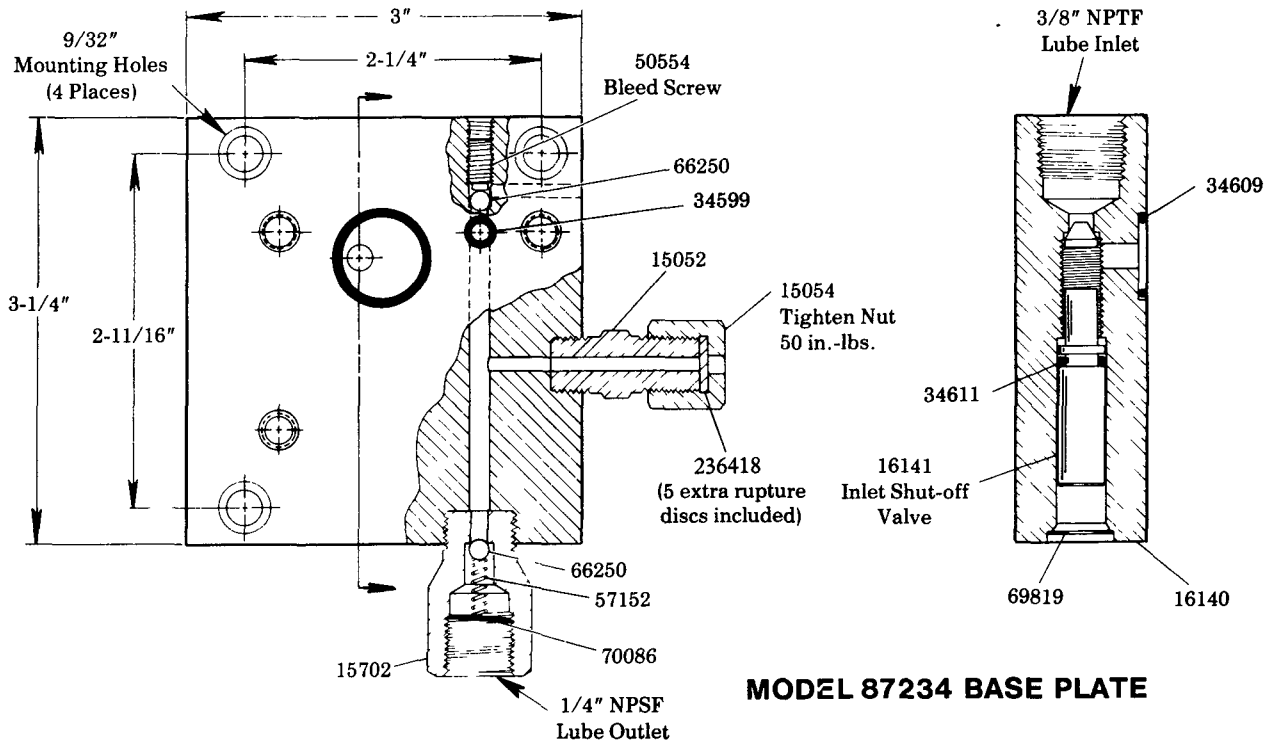
The pump operates by the upward movement of a cam, moving the piston forward into the pump body. The piston forces lubricant from the pump body to the base plate and through the lube outlet. As the cam lowers, the piston returns to its original position and lubricant is drawn from the lube inlet through the base plate and into the pump body.

Recommended cam angle and set-up dimensions for full output are illustrated on the back page. By increasing the 3" dimension, the relative stroke of the pump is decreased and pump output is reduced. On the 87219 Pump, approximately 27 lbs. of force on the lube piston will generate 1000 PSI of lube pressure. An approximate force of 110 lbs. will generate 1000 PSI on the 87235 Pump. A rupture indicator, with a 1450 PSI relief disc, is supplied to warn of excessive pressure caused by a blocked line, etc.



Four adjustment marks are provided on the external portion of the piston for ease in setting pump output. The first mark or the one closest to the pump body indicates the position to which the pump must always return to ensure complete prime. The second mark indicates the beginning of the discharge stroke, the third mark indicates 1/2 stroke, and the fourth mark indicates full stroke.

Pump Body	Base Plate	Output Per Stroke	Max. Strokes Per Minute	
			Oil	Grease
87219 (Series "A")	87234	.005 - .015 cu. in.	50	25
87235 (Series "B")		.020 - .050 cu. in.		



**MODEL 87234 BASE PLATE**



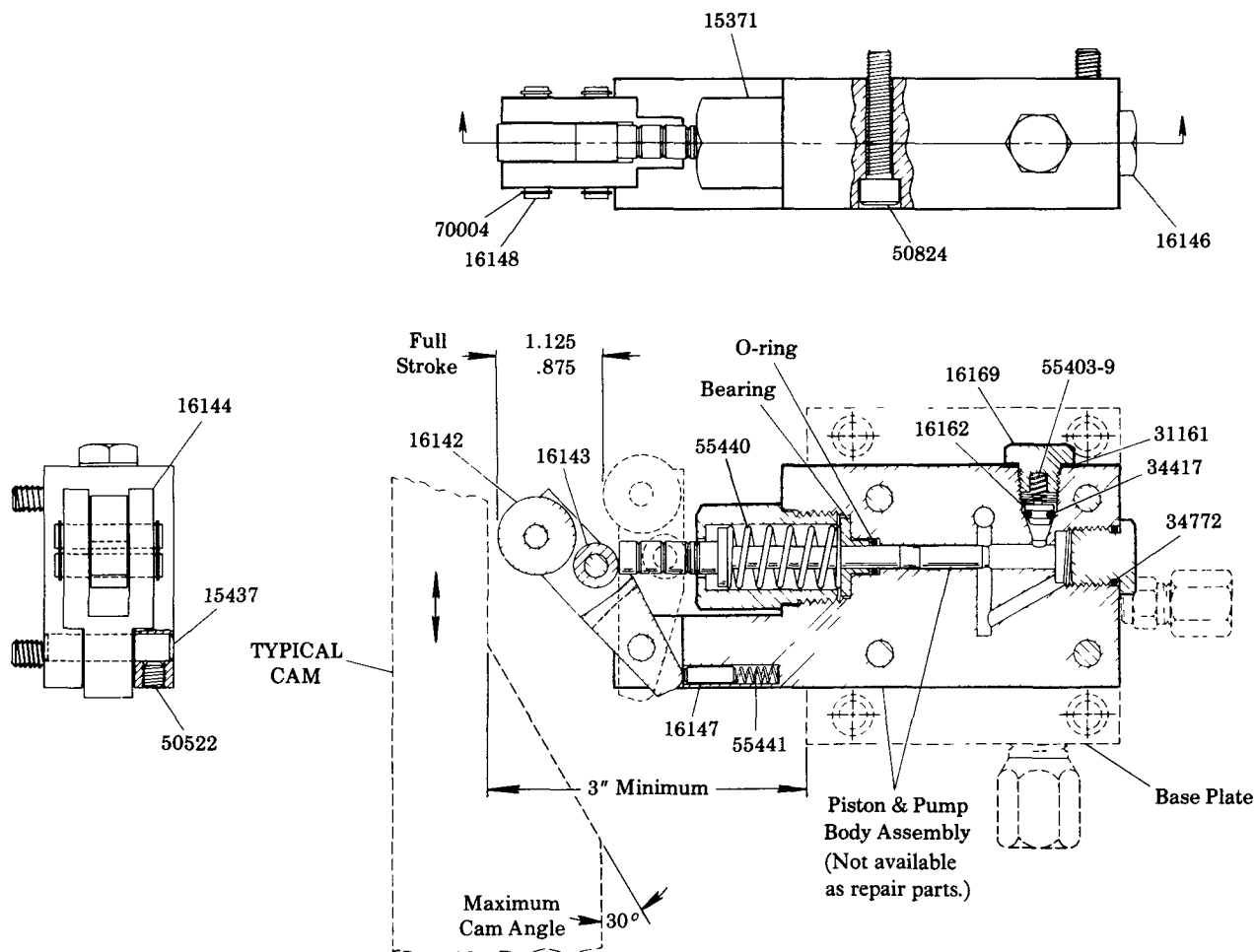
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One Lincoln Way  
St. Louis, MO 63120-1578  
(314) 679-4200

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Pump	Bearing	O-ring
87219	16145	34464 (Viton)
87235	16534	34659 (Viton)

### SERVICE PARTS

Part	Qty.	Description	Part	Qty.	Description	Part	Qty.	Description
15052	1	Connector	16147	1	Plunger pin	50554	1	Set screw
15054	1	Nut	16148	2	Roller pin	50824	4	Screw
15371	1	Enclosure	16162	1	Check	55403-9	1	Check valve spring
15437	1	Pivot pin	16169	1	Check valve plug	55440	1	Spring
15702	1	Body	31161	1	Gasket	55441	1	Spring
16140	1	Pump base plate	34417	1	O-ring (Viton)	57152	1	Spring
16141	1	Inlet shut-off valve	34599	1	O-ring (Viton)	66250	2	Ball
16142	1	Cam roller	34609	1	O-ring (Viton)	69819	1	Retainer
16143	1	Roller	34611	1	O-ring (Viton)	70004	4	Retaining ring
16144	1	Follower arm	34772	1	O-ring (Viton)	70086	1	Retainer
16146	1	End plug	50522	1	Set screw	236418	1	Disc (yellow colored)

#### 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.