

APP-0105 & 2510 PUMP

AUTOMATION PNEUMATIC PUMP



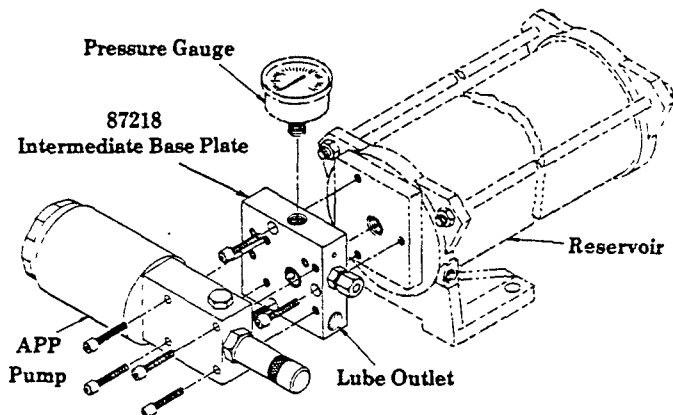
Series "C"

OPERATION & INSTALLATION

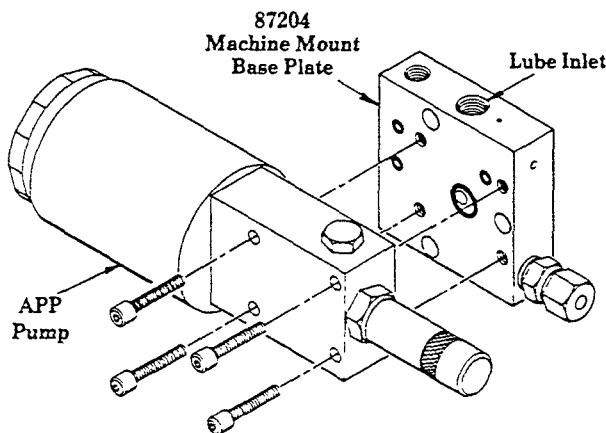
APP Pumps are pneumatic power automation pumps, with pump cycles controlled by a timer in conjunction with a solenoid valve. Pumps are mounted to a base plate as shown in the two illustrations, which includes all piping required for pump operation.

Model APPD & APPS-0105 develop a 50:1 ratio of lubricant to air pressure using a minimum pneumatic pressure of 40 psi and a maximum of 150 psi. Lubricant output is adjustable from .010-.050 cu. in. per stroke. One complete turn of the adjustment screw will change the lubricant output by .002 cu. in. per stroke. To increase lubricant output, turn adjustment screw counter-clockwise. To decrease output, turn adjustment screw clockwise.

Model APPD & APPS-2510 develop a 25:1 ratio of lubricant to air pressure using a minimum pneumatic pressure of 40 psi and a maximum of 150 psi. Lubricant output is adjustable from .025-.100 cu. in. per stroke. One complete turn of the adjustment screw will change lubricant output by .004 cu. in. per stroke. Turning adjustment screw counter-clockwise will increase output. To decrease output, turn adjustment screw clockwise.



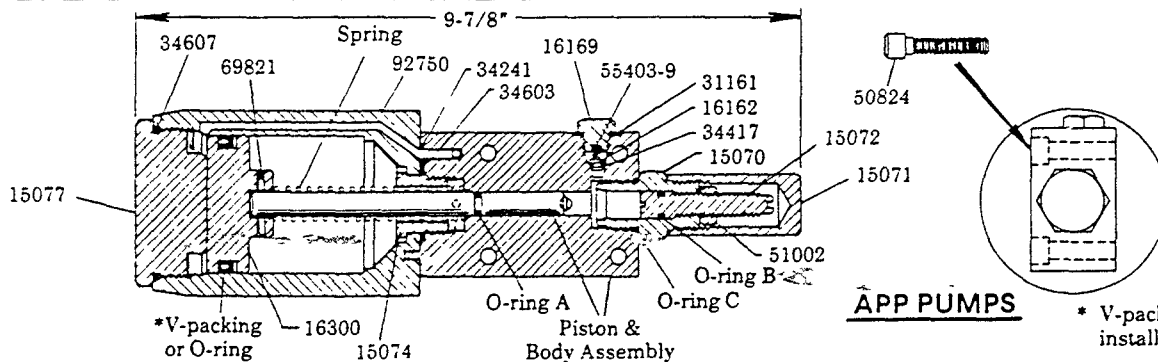
The APPS single acting pump has one pneumatic connection to power the piston on the delivery stroke. A spring returns the piston to priming position. Air pressure from a three-way solenoid valve is connected in Inlet Cylinder #1. APPS pumps can operate at a maximum of 30 strokes per minute with oil, 22 strokes per minute with grease.



The APPD is a single acting pump with a double acting air cylinder using air pressure to power the piston on the delivery stroke and return it to priming position. Air pressure from a four-way solenoid is connected to Inlet Cylinder #1 & #2. The APPD pump can operate at a maximum of 100 strokes per minute with oil, 36 strokes per minute with grease.

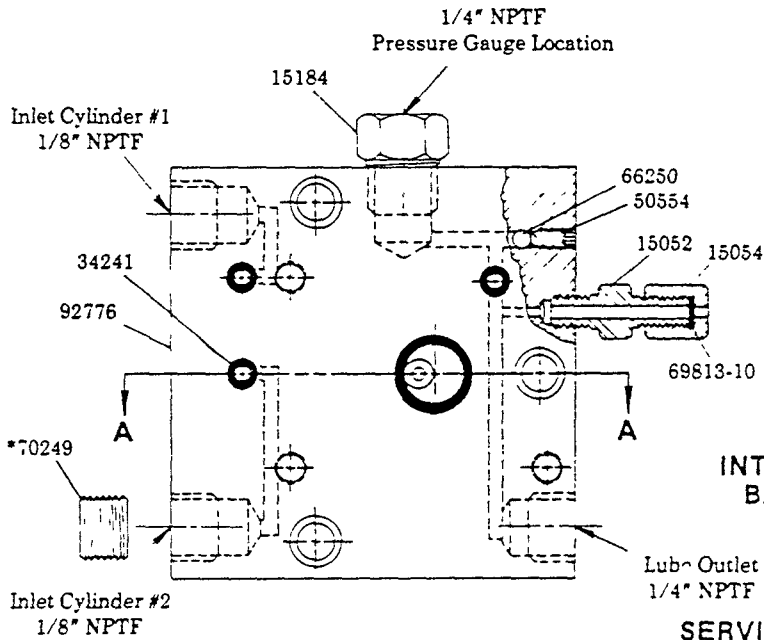
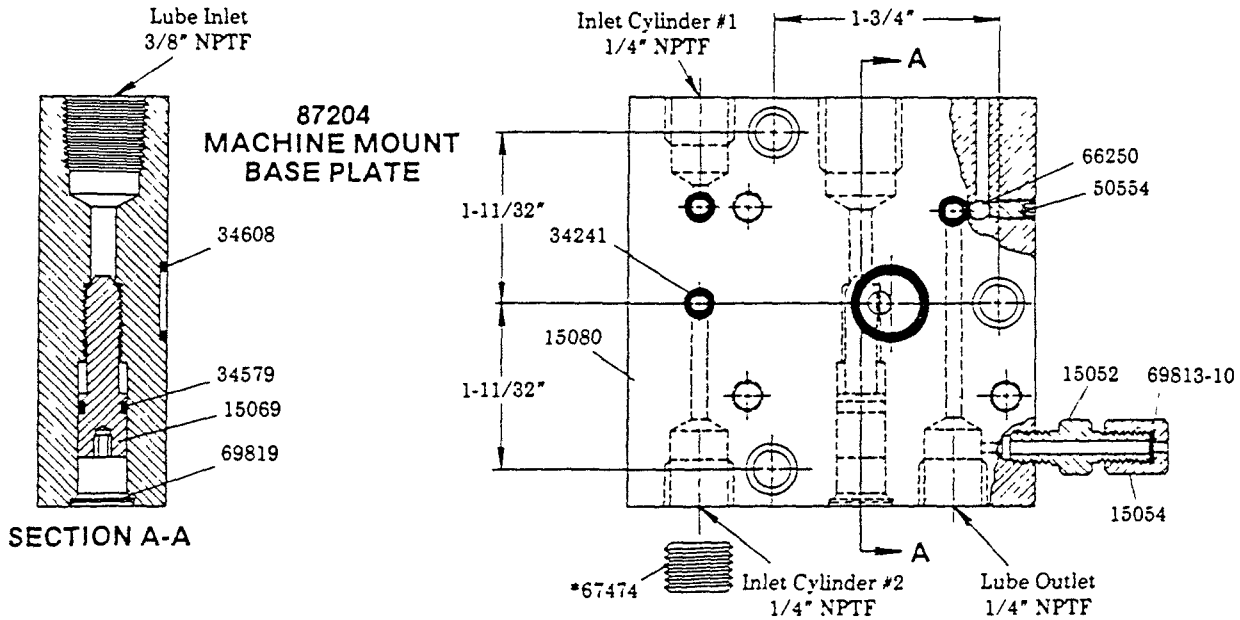
All piping is connected to the 87204 Machine Mount Base Plate or the 87218 Intermediate Base Plate (Reservoir Mount), allowing the pump to be removed without disturbing the existing piping. An inlet shut-off valve in the base plate permits the removal of the pump without draining the reservoir or supply lines. A bleed screw is provided in the base block to purge the pump during installation or when reservoir was allowed to run dry. Both base plates include buna-N oil seals. Viton replacement oil seals are listed in a chart on the back side of this page.

MODEL	O-RING SEALS	PISTON & BODY ASSEMBLY	RETURN	SPRING	V-PACKING	O-RING	O-RING A	O-RING B	O-RING C
87200 APPS-2510	Buna-N	93281	Spring	55380	34751	—	34579	34224	34604
87201 APPS-2510	Viton	93281	Spring	55380	34751	—	34611	34610	34609
87216 APPS-0105	Buna-N	93282	Spring	55380	34751	—	34186	34224	34604
130279 APPD-0105	Buna-N	93282	Air	—	—	34667	34186	34224	34604
130280 APPD-2510	Buna-N	93281	Air	—	—	34667	34579	34224	34604

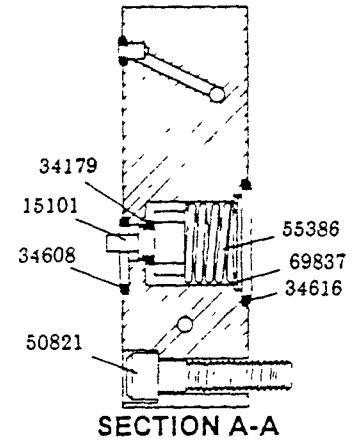


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SECTION - M23
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*Remove for APPD series pumps.



SERVICE PARTS

Buna-N O-rings	Viton O-rings
34179	34464
34241	34417
34579	34611
34608	34613
34616	34620

PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION
15052	1	Connector	34603	1	O-ring
15054	1	Nut	34607	1	O-ring
15069	1	Inlet shut-off valve	34608	1	O-ring
15070	1	Adjustment housing	34616	1	O-ring
15071	1	Adjustment screw cover	50554	1	Bleed screw
15072	1	Adjustment screw	50821	3	Socket head screw
15074	1	Coupling nut	50824	4	Socket head screw
15077	1	Piston enclosure screw	51002	1	Nut
15080	1	Base plate body	55386	1	Spring
15101	1	Check valve body	55403-9	1	Spring
15184	1	Adapter	66250	1	Ball
16162	1	Check	67474	1	Vent plug
16169	1	Check valve plug	69813-10	6	Disc (yellow colored)
16300	1	Pneumatic plunger	69819	1	Retainer
31161	1	Gasket	69821	1	Groove pin
34179	1	O-ring	69837	1	Retainer
34241	3	O-ring (base plate)	70249	1	Breather plug
34241	1	O-ring (pump)	92750	1	Piston enclosure body
34417	1	O-ring	92776	1	Base plate body assembly
34579	1	O-ring			

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.