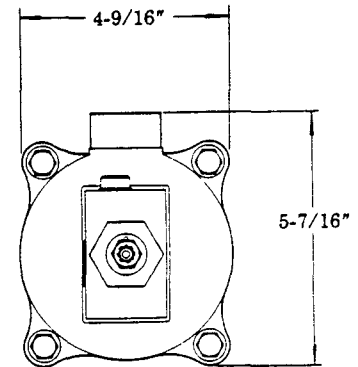
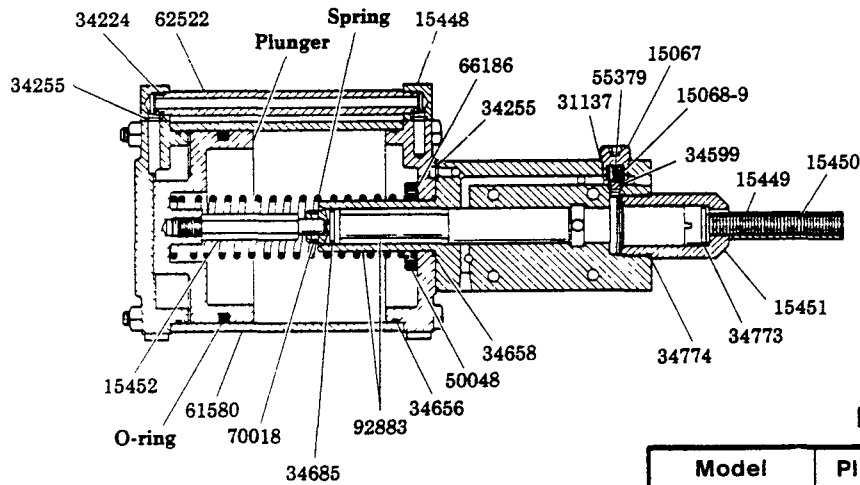
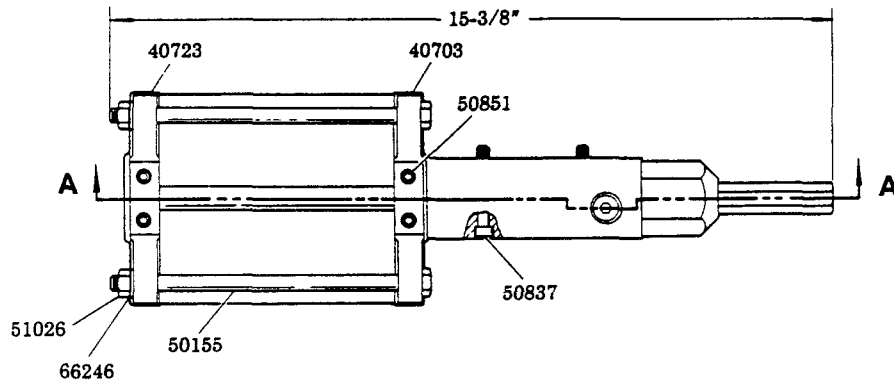


**AUTOMATION PUMP-PNEUMATIC VALVED PISTON
LARGE OUTPUT
INCLUDES VITON O-RINGS**



MODEL CHART

Model	Plunger	O-Ring	Spring	Return
130103 APPVD	15730	34654	—	Air
130179 APPVS	40706	34657	55416	Spring

SECTION A-A

SERVICE PARTS

Part	Qty.	Description	Part	Qty.	Description	Part	Qty.	Description
15067	1	Check valve retainer	34656	2	O-ring	55379	1	Check valve spring
15068-9	1	Check valve poppet	34658	1	O-ring	61580	1	Air can
15448	2	Tube adapter	35659	1	O-ring	62522	1	Transfer tube
15449	1	Adjusting screw cover	34685	1	O-ring	66003	1	Steel ball
15450	1	Screw	34773	1	O-ring	66186	4	Lockwasher
15451	1	Adjusting screw housing	34774	1	O-ring	66246	4	Lockwasher
15452	1	Rod extension	40703	1	Air can support	70018	1	Groove pin
15453	1	Inlet shut-off valve	40723	1	Air can retainer	70020	1	Vent plug
15454	1	Baseplate	50048	4	Screw	70021	1	Retainer
31137	1	Gasket	50155	4	Screw	87019-14	1	Rupture indicator
34224	2	O-ring	50564	1	Set screw	87817	1	Check valve
34255	4	O-ring	50837	4	Screw	92883	1	Body & piston ass'y.
34599	1	O-ring	50851	4	Screw			
34611	5	O-ring	51026	4	Nut			

OPERATION & INSTALLATION

APPVS & APPVD Pumps are pneumatically powered valved piston pumps, with pump cycles controlled by a timer in conjunction with a solenoid valve. Pumps develop a 25:1 ratio of lubricant to air pressure using a minimum pneumatic pressure of 65 PSI and a maximum of 150 PSI. A rupture indicator is supplied to warn of excessive lubricant pressure (1450 PSI).

If maximum pump speed is desired, inlet lube pressure must be increased proportionally (not to exceed 2000 PSI or 20 times the air pressure).

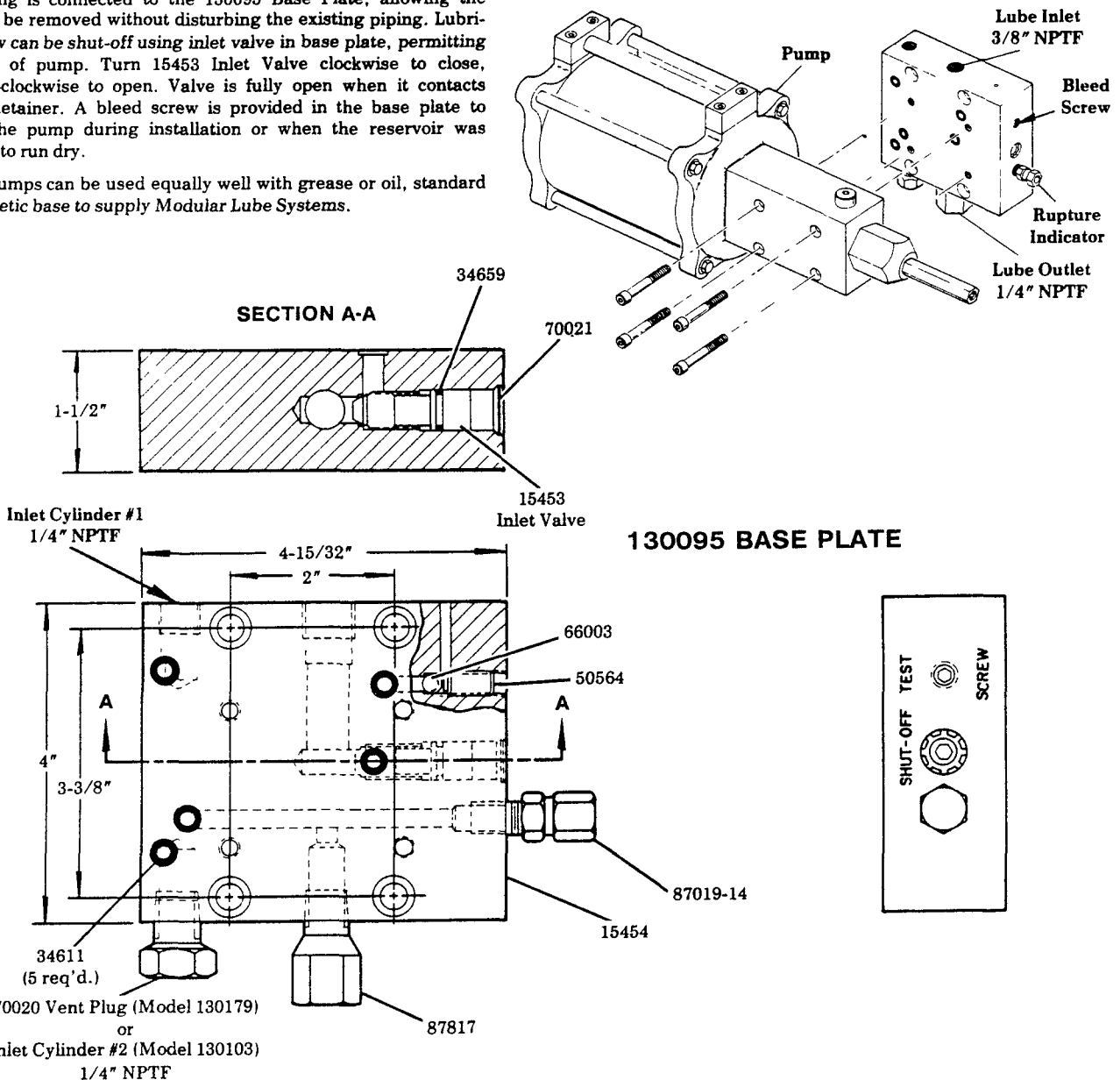
Lubricant output is adjustable from .25 - 1.0 cu. in. per stroke. One complete turn of the adjustment screw will change the lubricant output by .020 cu. in. per stroke. To increase lubricant output, turn adjustment screw counter-clockwise. To decrease output, turn adjustment screw clockwise.

All piping is connected to the 130095 Base Plate, allowing the pump 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 15453 Inlet Valve clockwise to close, counter-clockwise to open. Valve is fully open when it contacts 70021 Retainer. A bleed screw is provided in the base plate to purge the pump during installation or when the reservoir was allowed to run dry.

These pumps can be used equally well with grease or oil, standard or synthetic base to supply Modular Lube Systems.

The 130179 APPVS single acting piston pump has one pneumatic connection to power the piston on the delivery stroke. A spring returns the piston to prime position. Air pressure from a three-way solenoid valve is connected to Inlet Cylinder #1. APPVS Pumps can operate at a maximum of 25 strokes per minute with oil, 10 strokes per minute with grease.

The 130103 APPVD is a single acting piston 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 and #2. The APPVD Pump can operate at a maximum of 50 strokes per minute with oil, 30 strokes per minute with grease.



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.