



# MODELS 740, 3050©, 81495, 82393 HIGH PRESSURE CONTROL VALVE 7,500 PSI RATED

## OWNER/OPERATOR MANUAL

### OWNER/OPERATOR RESPONSIBILITY

It is the owner/operator responsibility to properly use and maintain this equipment.

The instructions and warnings contained in this manual shall be read and understood by the owner/operator prior to operating this equipment.

If an owner/operator does not understand English, the contents of this manual shall be explained in the owner/operator native language to assure the owner/operator comprehends.

It is the owner/operator responsibility to maintain the legibility of all warning and instruction labels.

The owner/operator shall retain this manual for future reference to important warnings, operating and maintenance instructions.

### DESCRIPTION

The control valve is designed to control the flow of lubricant from high pressure lubricant pumps.

### OPERATION

Before using the valve, always make sure the air pressure is set correctly to operate the lubrication pump. Only a small pressure on the control valve handle is required to obtain lubricant flow from the nozzle.

The control valve dispenses lubricant when the handle (45788) is depressed and the pull rod (11362) and ball retainer (11363) move up, compressing the friction spring (55029), allowing lubricant pressure to unseat the steel ball (66255) and lubricant to flow through the control valve. The ball retainer (11363) limits the travel of the steel ball (66255) and the lubricant flow rate is determined by the distance the handle is depressed.

When the handle (45788) is released, the friction spring (55029) returns the handle to its normal position and causes the ball retainer (11363) to seat the steel ball (66255) against the check seat (11364) stopping the lubricant flow through the control valve.

## WARNING

### FAILURE TO HEED THE FOLLOWING WARNINGS MAY RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE.

- ALWAYS determine the correct air pressure to operate the lubrication pump

Some air pressure operated pumps can develop pressure over 11,000 psi. This control valve is rated at 7,500 psi when equipped with a steel tube extension and should not be operated above that pressure. When this control valve is used with a whip hose, the pressure rating is further reduced to the rating of the whip hose. The supply hose rating and any fittings to the control valve must also be considered. To determine the air pressure to operate the lubrication pump at, simply divide the rated pressure of the lowest rated component on the down stream side of the pump by the lubricant to air pressure ratio of the pump.

**EXAMPLE** The whip hose attached to the control valve is the lowest rated component and has a rating of 4,500 psi. If the lubrication pump is a 501 pump, divide 4,500 psi by 50 to determine the correct air pressure setting (4,500 / 50 = 90 psi). Set the air regulator that controls the air to the 501 pump to 90 psi or less.

- NEVER point the dispensing valve at any part of the body or at another person
- NEVER try to stop or deflect material from the dispensing valve, leaking connection or component with your hand
- ALWAYS relieve pressure from the system before servicing
- AVOID contact with the nozzle
- ALWAYS attach the spring guarded end of a whip hose to the grease coupling and the non-spring guarded end to the control valve or gun

### MAINTENANCE

If lubricant continues to flow from the coupler after the handle is released, the steel ball (66255) is not seating against the check seat (11364).

Remove and inspect the check seat (11364) and the steel ball (66255). If the steel ball is not perfectly smooth, replace it. The check seat has a ball seat on both sides. If the ball seat being used is rough, worn or pitted, invert the check seat and reassemble the control valve. If both sides of the check are damaged, replace the check seat and the steel ball.

See Figure (1). After assembly, the adjustment nuts at the top of the control valve should be adjusted. To prevent damage to the check seat, do not adjust for less than 1/32" pull rod travel.

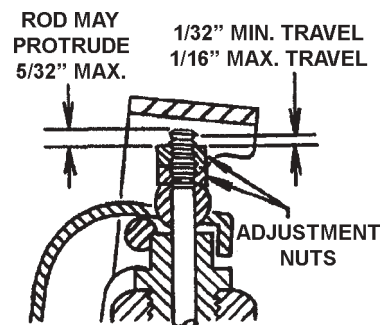


FIGURE 1

**RETAIN THIS INFORMATION  
FOR FUTURE REFERENCE**

© Indicates change



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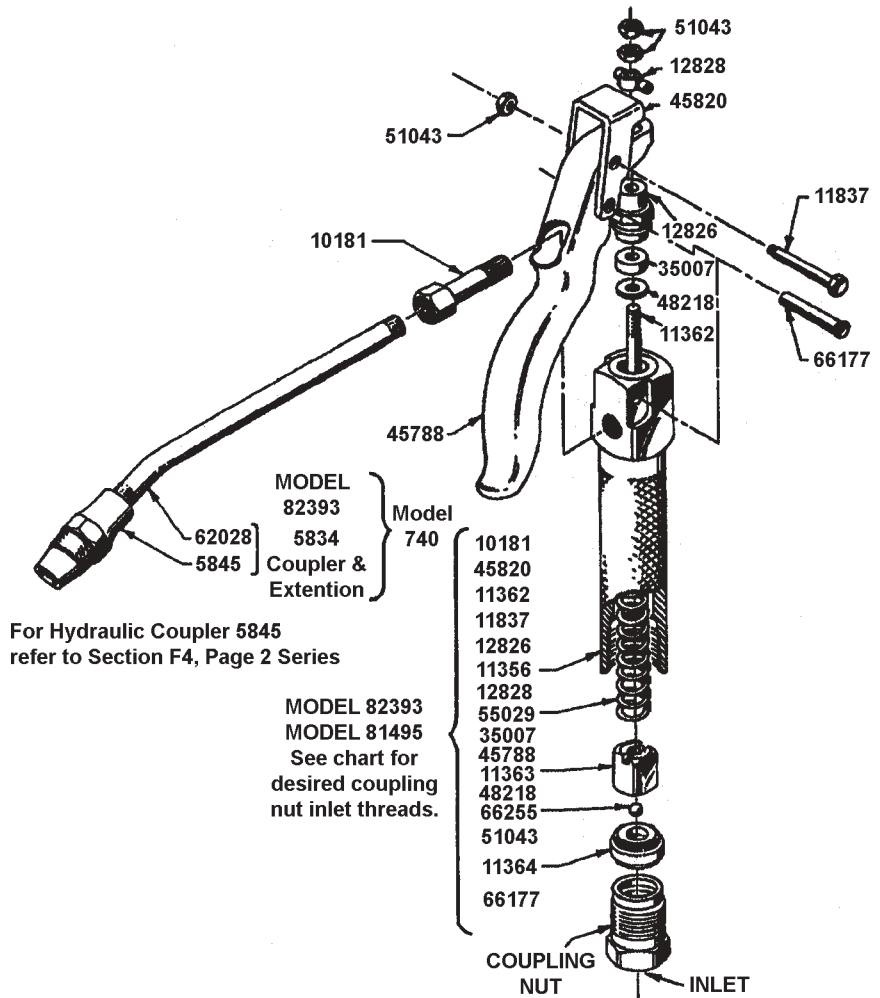
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## SERVICE PARTS

PART	QUAN	DESCRIPTION
5834	1	Hydraulic coupler w/extension
5845	1	Hydraulic coupler
10181	1	Nozzle adapter
11356	1	Control valve body
11362#	1	Pull rod
11363	1	Ball retainer
11364#	1	Check seat
11837	1	Toggle pivot screw
12826	1	Packing gland
12828	1	Pivot bar
35007#	1	Valve stem packing
45788	1	Handle
45820	1	Toggle link
48218#	1	Packing washer
51043	3	Locknut
55029	1	Friction spring
62028	1	Nozzle extension
66177	1	Toggle pin
66255#	1	Steel ball

#Included in Repair Kit 82157

MODEL	COUPLING NUT	INLET
82393	12869	1/4" NPTF
81495	11396	3/8" NPTF



## Lincoln Industrial Standard Warranty

### LIMITED WARRANTY

Lincoln warrants the equipment manufactured and supplied by Lincoln to be free from defects in material and workmanship for a period of one (1) year following the date of purchase, excluding there from any special, extended, or limited warranty published by Lincoln. If equipment is determined to be defective during this warranty period, it will be repaired or replaced, within Lincoln's sole discretion, without charge.

This warranty is conditioned upon the determination of a Lincoln authorized representative that the equipment is defective. To obtain repair or replacement, you must ship the equipment, transportation charges prepaid, with proof of purchase to a Lincoln Authorized Warranty and Service Center within the warranty period.

This warranty is extended to the original retail purchaser only. This warranty does not apply to equipment damaged from accident, overload, abuse, misuse, negligence, faulty installation or abrasive or corrosive material, equipment that has been altered, or equipment repaired by anyone not authorized by Lincoln. This warranty applies only to equipment installed, operated and maintained in strict accordance with the written specifications and recommendations provided by Lincoln or its authorized field personnel.

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This warranty gives you specific legal rights. You may also have other rights that vary by jurisdiction.

Customers not located in the Western Hemisphere or East Asia: Please contact Lincoln GmbH & Co. KG, Walldorf, Germany, for your warranty rights.

### Lincoln Industrial Contact Information

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