

# NO-FLO VALVE

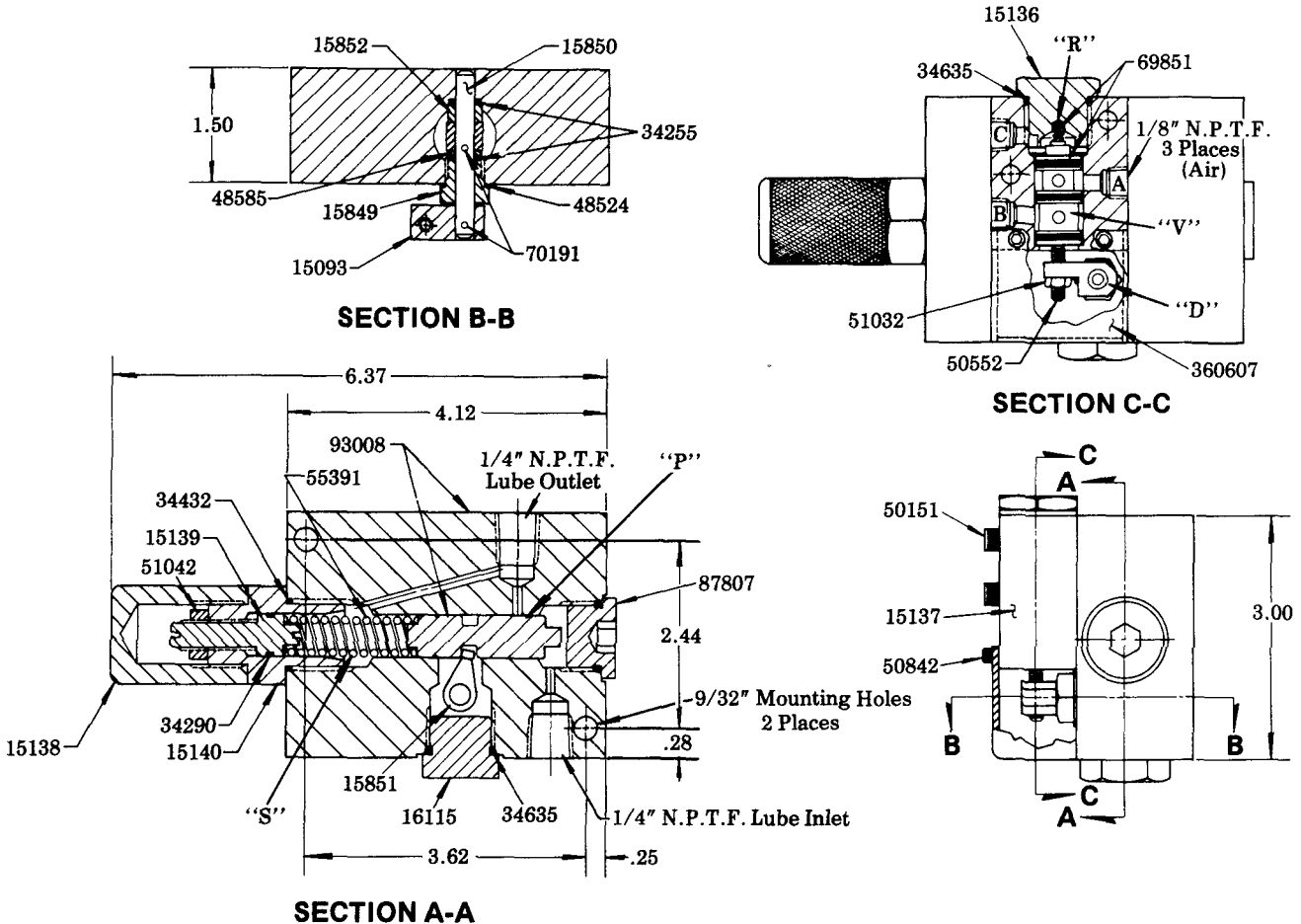
PNEUMATIC SWITCH



# Model 87800

## SPECIFICATIONS:

AIR PRESSURE - 125 P.S.I. Max.  
 LUBRICANT PRESSURE - 6000 P.S.I. Max.  
 MINIMUM FLOW RATE - 2 Pints per day



Model 87800 reacts to no-flow conditions in lubricant supply lines by actuating an integral three-way air valve to provide a pneumatic failure signal. In series type lubrication systems the pneumatic no-flow valve is normally installed in the main lubricant supply line between the pump and the master divider valve, eliminating the need for explosion-proof electrical components in hazardous areas.

An adjustment screw varies the time delay period from cessation of lubricant flow to actuation of the three-way air valve. The delay period depends upon the viscosity of the lubricant and the force exerted on piston "P" by delay adjustment spring "S". Clockwise rotation of the adjustment screw decreases the delay period, whereas counter-clockwise rotation increases the delay period. The factory setting is for a one-minute delay with SAE 30 oil at 150F.

## OPERATION

During normal system operation, flowing lubricant retracts piston "P", compressing delay adjustment spring "S" and rotating crank assembly "D" free of air valve "V", allowing return spring "R" to shift air valve "V". Common port "A" is connected to port "B" and will remain so until lubricant flow stops.

If lubricant flow stops, delay adjustment spring "S" forces piston "P" to return to its stop, rotating crank assembly "D" and shifting air valve "V". Common port "A" is connected to port "C" and will remain so until lubricant again flows through the valve.

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### SERVICE PARTS

PART NO.	QUAN.	DESCRIPTION
15093	1	Lever
15136	1	Retainer
15137	1	Body
15138	1	Adjustment Screw Cover
15139	1	Adjustment Screw
15140	1	Adjustment Plug
15849	1	Retainer
15850	1	Shaft
15851	1	Connecting Arm
15852	1	Spacer
16115	1	Plug
34255	2	"O" Ring
34290	1	"O" Ring
34432	1	"O" Ring
34635	2	"O" Ring
48524	1	Washer
48585	1	Washer
50151	2	Socket Head Screw
50552	1	Set Screw
50842	2	Socket Head Screw
51032	1	Nut
51042	1	Locknut
55391	1	Spring
69851	1	Air Valve
70191	2	Roll Pin
87807	1	Plug Assembly
93008	1	Body & Piston Assembly
360607	1	Cover

**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.