

MODEL NO. J-1002-C*



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3-Way Lubricant Diverting Valve

- Operates by pilot air (9 to 250 psi)
- Handles lube system pressures to 3000 psi
- Adjusts lubricant flow to machine operations



*Part No. 211-1-001-000

Features

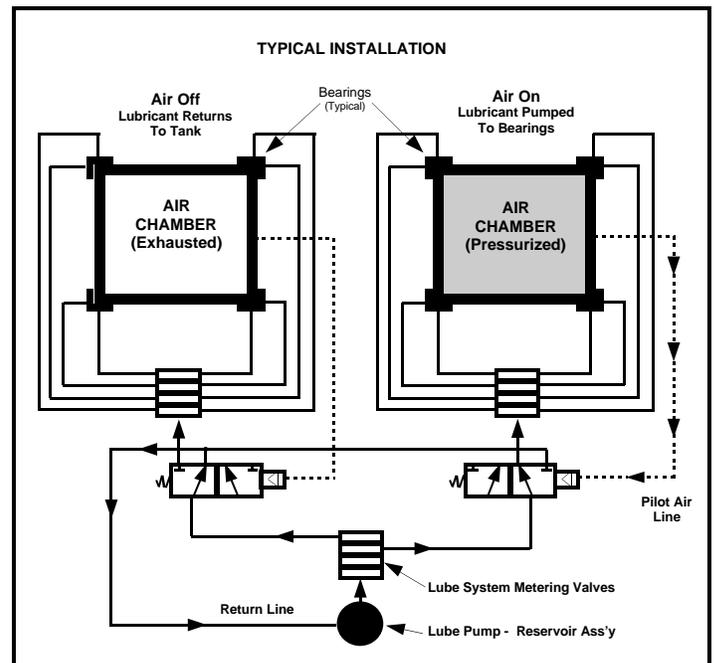
The **HYCOA** 3-Way Diverting Valve is used in centralized lubrication systems in which the positive delivery characteristic of the metering valves requires an alternate lubricant flow path as determined by the machine's operation. This valve handles lube system pressures up to 3000 psi, and requires as little as 9 psi pilot air pressure for shifting. Its spool arrangement provides for a slight interflow during shifting so that the flow path is never fully closed. In addition, a compact, block configuration permits flush mounting, and the port arrangement allows all connecting plumbing to run close to the mounting surface.

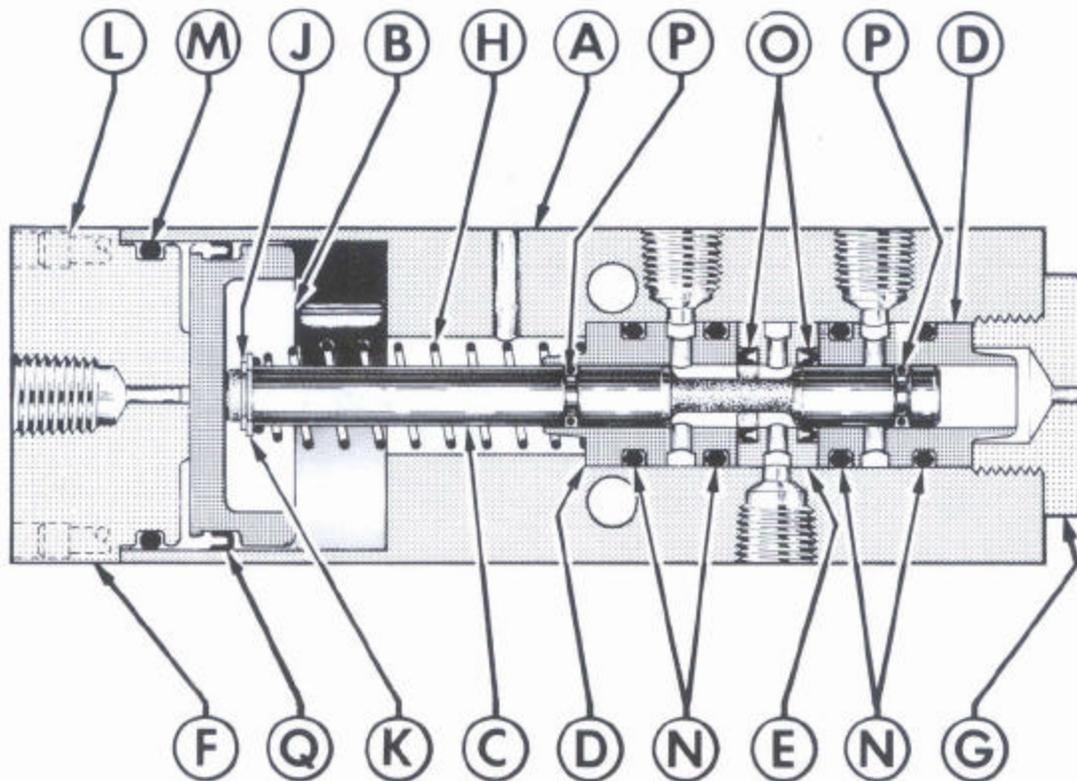
The valve's *Air On* outlet (lube to system) is normally closed; the *Air Off* outlet (lube return) is normally open. Pilot air pressures for shifting can range from 9 psi (with no hydraulic seal loading) up to 250 psi. For optional electrical selection of the flow path, the 3-Way Diverting Valve can be used in combination with a 3-Way solenoid air valve.

Application

Designed primarily for series-type centralized systems supplying grease or oil to multiple bearings in metal-forming presses, machine tools and similar types of machinery, this dependable, positive **HYCOA** valve is controlled by pilot air from the machine's pneumatic supply.

A common application for this valve is a mechanical press pneumatic bed cushion that rides in ways or guides that require regular lubrication during normal operations. The cushion is not used for some stamping operations, and it then is depressurized. During thee depressurized period, the 3-Way Diverting Valve - operating automatically by pilot air from the cushion's air supply - diverts the lubricant and returns it to the reservoir. As soon as the cushion is pressurized again for operation, the valve shifts and permits the lubricant to flow to all lubricating points.

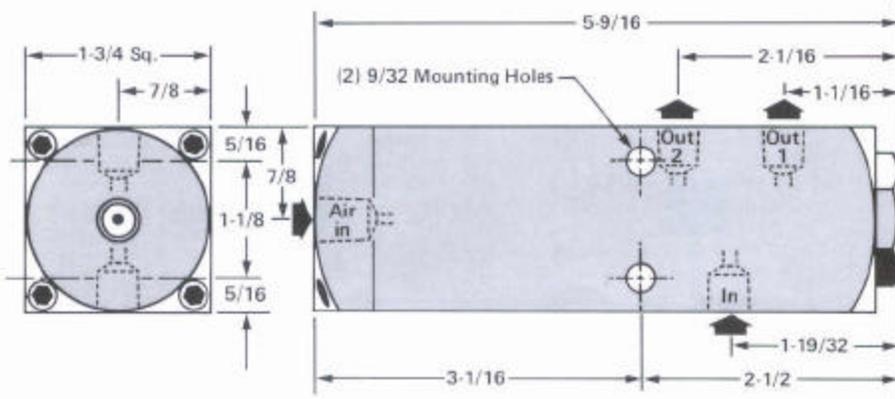




BILL OF MATERIALS

Mark	No. Req'd.	Description	Mark	No. Req'd.	Description
A	1	Body	K	1	Spring Retainer
B	1	Air Piston	L	4	Screw
C	1	Valve Stem	M	1	O-Ring
D	2	Spool, End	N	4	O-Ring
E	1	Spool, Center	O	2	Lipseal
F	1	Cylinder Cap	P	2	O-Ring
G	1	Spool Retainer	Q	1	Lipseal
H	1	Spring	R	1	Label (Not Shown)
J	1	Snap Ring			

Envelope & Mounting Dimensions



Specifications

Materials: BODY & AIR PISTON—aluminum alloy barstock; STEM & VALVE SPOOL ASSEMBLY—steel.

Shift Pressure: As low as 9 psi with no hydraulic seal loading; slightly higher as load increases (20 psi max.).

Flow: Rates will vary with different oils and greases, depending on viscosity, temperature, and pumpability. Rating for any specific fluid can be furnished on request.

Seals: Buna-N O-rings and U-caps (standard) are combined for maximum sealing ability and low frictional drag.

Port Sizes: Lube ports, 1/8" NPTF; air inlet port, 1/4" NPTF.

Cv: 0.15 gpm @ 1 psi differential pressure. (MIL 5606 oil.)

Specifications subject to change without notice.