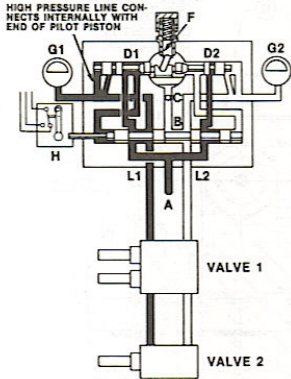


**VCI-R40 REVERSING VALVE**  
**(Operating and Piping Instructions)**

The following schematic, with pistons and ports shown in one plane for clarity, shows one half of a complete reversing valve operating cycle for a non-return system. The other half cycle is identical except pressure is applied to line L2 with line L1 relieved. At the end of the second half cycle, pistons D and B will have returned to position 1. Black indicates line is under pressure.

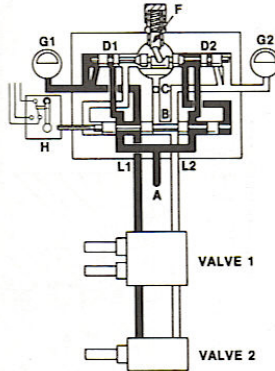


**POS. 1**

**POS. 1:** Timer (not shown) starts pump. Lube from pump enters at Port A. Reversing piston B at point P1 directs flow from Port A to supply line L1. Line pressure at point P2 holds piston B in position.

Line L2 is relieved to the reservoir thru port C.

Rising pressure causes all measuring valves to discharge to bearings.

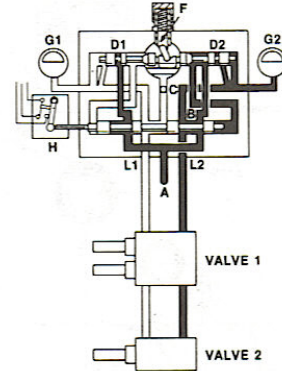


**POS. 2**

**POS. 2:** Pressure in line L1 continues to rise, acting on pilot piston D1, until it can overcome the spring force applied at point F. (This is adjustable between 500-3,500 psi). The pilot piston moves to the position shown.

Lube flow is re-directed to the right end of piston B by piston D2.

Pressure created by movement of pilot piston D2 at its right end is relieved to reservoir thru port C.



**POS. 3**

**POS. 3:** Rising pressure moves piston B to new position (extreme left) tripping switch H stopping pump and relieving line L1. When timer starts next half cycle, line L2 will be pressurized and line L1 relieved.

**KEY**  
 ■ LUBRICANT UNDER PRESSURE FROM PUMP  
 □ RELIEF AND RETURN TO RESERVOIR

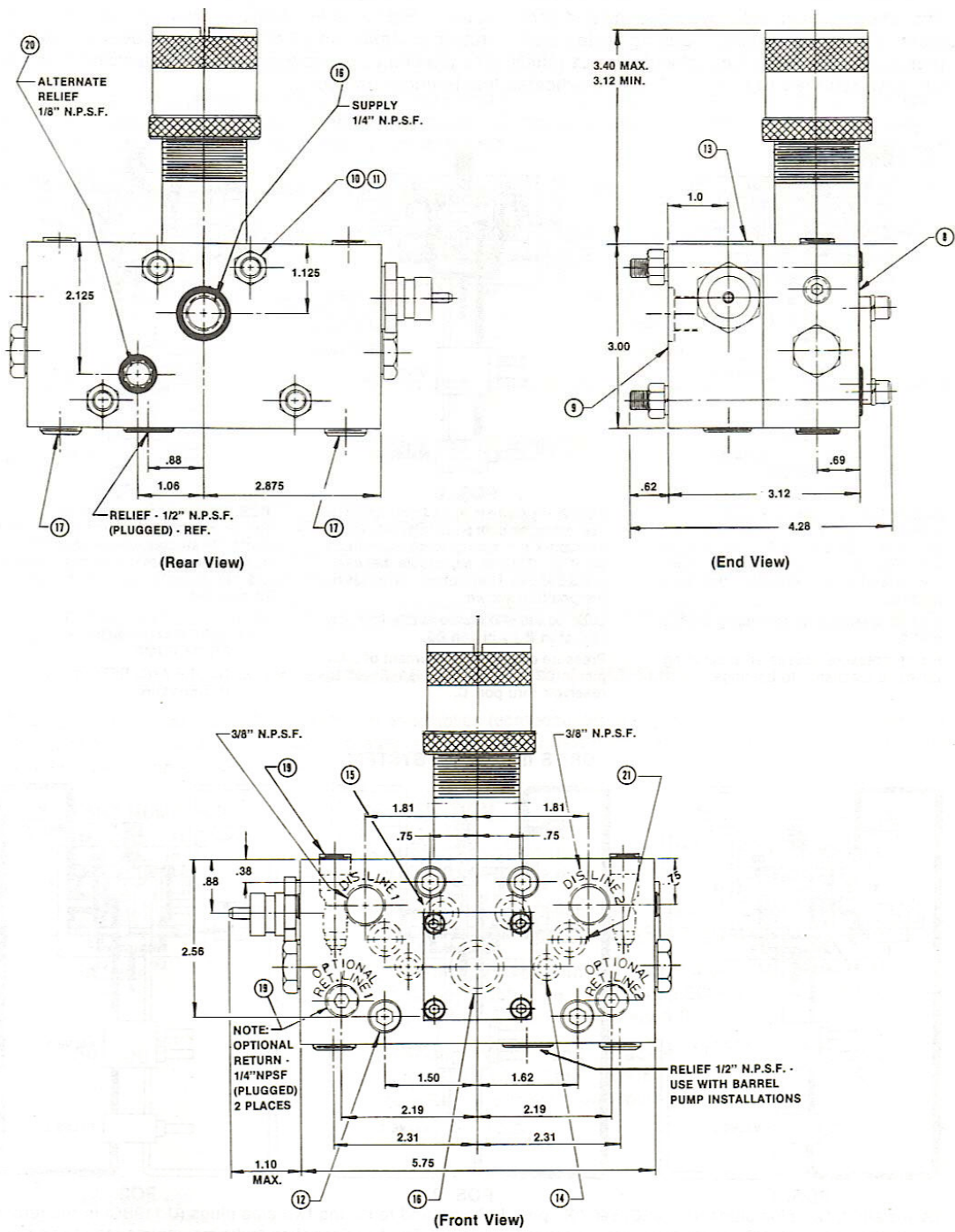


Figure 1 - Outside Dimensions