

This bulletin is valid for HPR100, 130 and 160 pumps ONLY. This does not pertain to HPR75-O2, 100D, 130D OR 160D pumps

On HPR pumps the case drain and vent ports are designated “L” and “U”, as seen in figure 1 below. Depending on the orientation of the HPR in the application, the highest of these two ports should always be used to vent the pump case back to the reservoir.

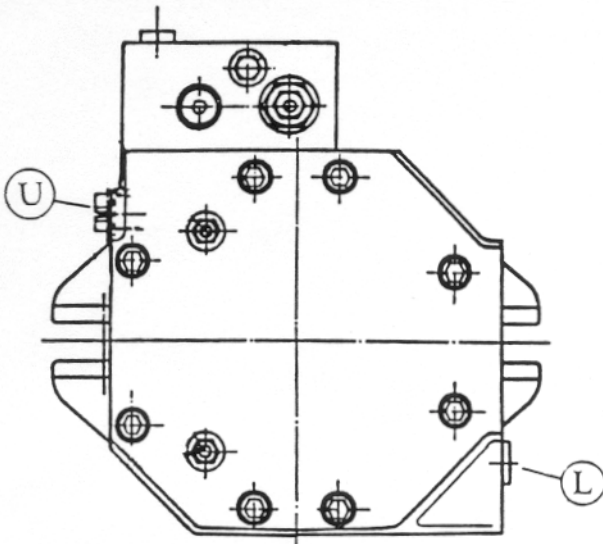


figure 1

When “L” is the highest port and connected to the reservoir through adequately sized hoses or tubing, it alone is sufficient to provide case venting for the pump. **However**, if “U” is the highest port, then it is highly recommended to connect “L” as well.

Reason:

There are two decompression holes in the port plate, between the high pressure port and the inlet port to decompress the oil in transition from pressure to suction. Pressure pulses generated from these two decompression holes could have an influence on the internal case pressure and the pump’s control characteristic if allowed to pass directly into the pump case. The two decompression holes are connected directly to port “L” by internal drillings which keeps them segregated from normal case drain leakage. Thus, connecting port “L” by internal drillings which keeps these pressure pulses out of the pump case and away from having any influence on the pump’s control characteristics.