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Fuel Pumps & Valves

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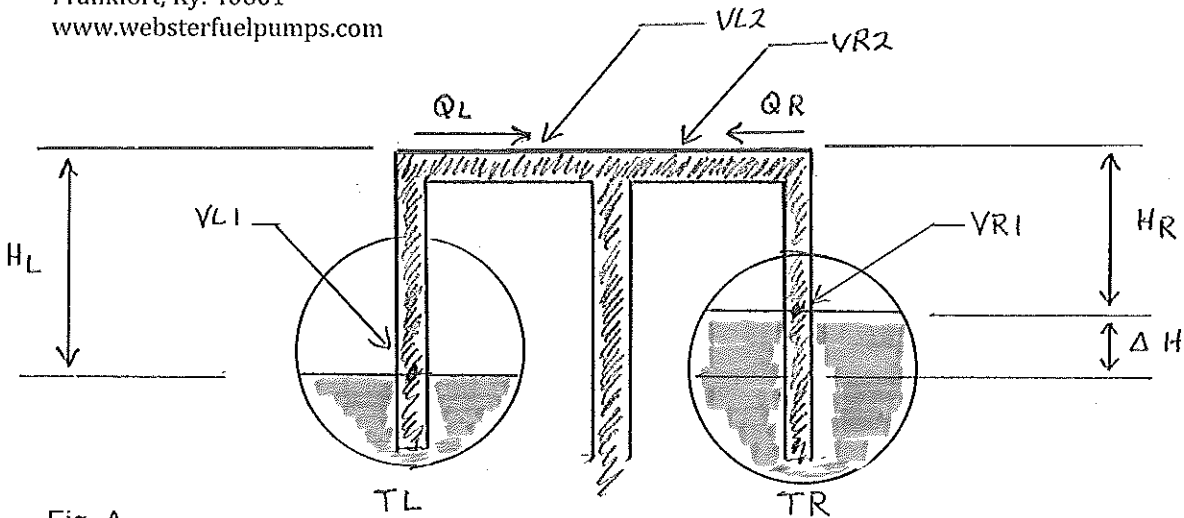


Fig. A

The tee at the top will force each tank to seek the same level by the following method. The vacuum VL2 & VR2 must be the same since vacuum VR1 is less than VL1, the flow QR will be greater than QL in order to increase vacuum loss in line from VR1 to VR2. This difference in flow rates forces the vacuum VL2 & VR2 to be the same.

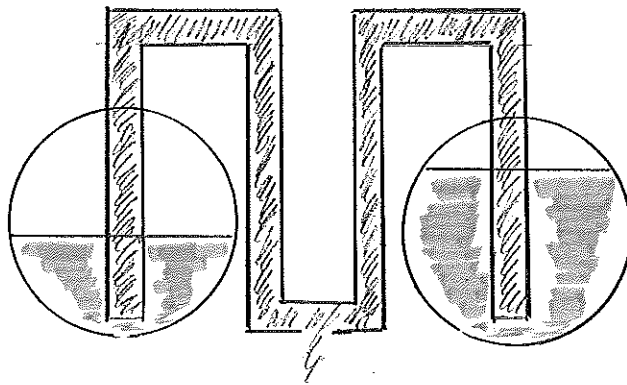


Fig. B

This method may not make the oil level in the tanks seek the same level. If the down drop does not flow full then the tanks will not seek a balanced level. If the down drop does flow full on each side the tanks will seek a balance level. This is not a reliable method to insure balanced levels in the tanks.

We recommend method shown in Fig. A. The lines must be air tight or this method will also fail. Note: This method will work even if the down line is not full. The best method would be to have the tanks connected at the bottom. Tank pressure then ensures balance instead of tank vacuum as is the case in Fig. A