

# "GILBARCO" FIXED BLENDER

S.WA-450 Rev. 1

(BLEND OF PROD. A + PROD. B = PROD. C)

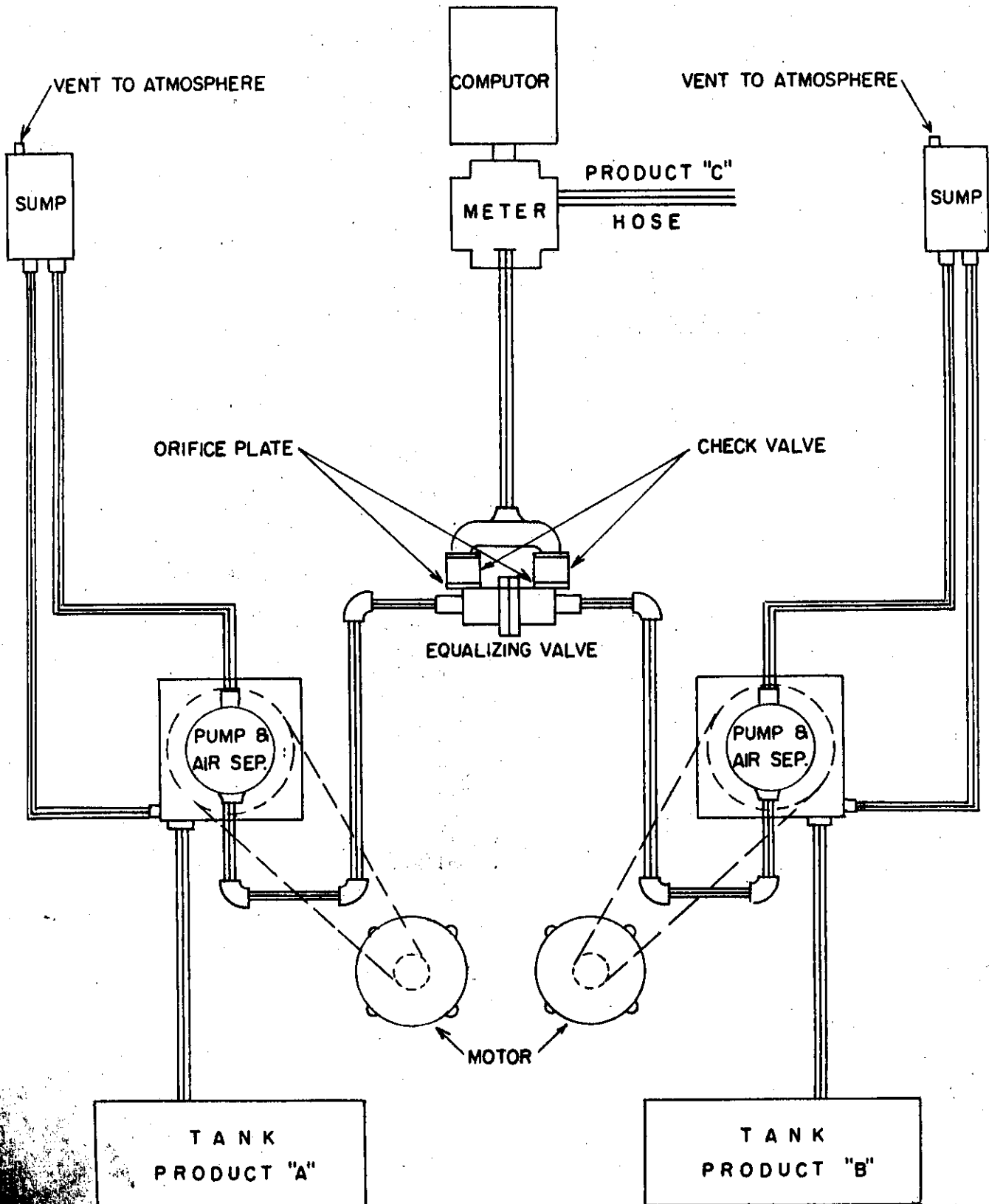


DIAGRAM BY "GILBARCO"

Description: The working components in these blending dispensers are the same as used in other Gilbarco dispensers. The blending ratio is controlled by two orifices, one in each product line, which are installed directly downstream from an equalizing valve. The function of the equalizing valve is to maintain the same supply pressure to each orifice plate. The outlets of the orifice plates are piped to a tee and therefore are always at the same pressure. By this means, the pressure drop and hence the flow through both orifices is made to vary in the same proportion; that is, if the pressure drop across one orifice doubles, so does the pressure drop across the other; thus the flows are kept in the ratios fixed by the relative sizes of the orifices in the plates.

The blended product is then metered and conducted to the sight glass, delivery hose and nozzle in the usual manner.


If either of the product supply tanks runs dry, the pump discharge pressure falls to zero, causing the equalizing valve to reduce the pressure to zero to the second orifice plate, that is, to shut off the flow of product. Check valves downstream of the orifice plates keep the meter under pressure and full of product between deliveries.


The diagram on the opposite page taken from the Gilbarco instruction manual, schematically illustrates the piping in the dispenser. Orifice plates are available for ratios of 40% to 60% in 5% increments.

Testing: The standard tests for a gasoline dispenser shall apply. On this dispenser there is no way that the ratio of the blends can be tested in the field.

References: SW-85-G12,  
SL-102-632,  
Letter of approval of March 14, 1968.

Note: Approval is granted under the Weights and Measures Act, Chapter 292, and Regulations thereunder (P.C. 6894) for use in Canada under the general conditions of P.C. 6894, and under any special conditions listed above.

(for)   
Chief,  
Weights and Measures Division,  
Standards Branch.

  
R. W. MacLean  
Director,  
Standards Branch.