

15. Apparatus for sampling liquid repeatedly from a body thereof, comprising a source of fluid at superatmospheric pressure, first valve means therebetween for determining the sampling repetition rate, including a first normally closed pressure-responsive switching valve; second valve means for determining the duration of individual samplings, including a second normally closed pressure-responsive switching valve therebetween; conduit means containing the respective valve means between the fluid source and the body of liquid and leading therefrom to a collection location for liquid samples, and including means for accumulating fluid under pressure from the source, also including conduit means separately interconnecting the accumulation locus to the body of liquid for bleeding off fluid therefrom against the back-pressure applied thereto by the liquid.

16. Liquid-sampling apparatus according to claim

15, including, in the line of the latter conduit means, valve means for calibrating the bleed-off rate, including means for adjusting such rate at zero back-pressure to equal the rate of flow from the fluid source to the accumulation locus.

17. Liquid-sampling apparatus according to claim 16, wherein the valves therein include in the line of fluid flow a constant-pressure regulator, an adjustable-orifice valve, and a valve having an open position in which the accumulation locus is connected to the body of liquid and having also a closed position in which the fluid is precluded from bleeding off from the accumulation locus and a vent is established to the body of liquid and having also an open position in which propulsion fluid from the accumulation locus is connected to the body of liquid to bubble therethrough.

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