



Agricultural Journals

Research in

**AGRICULTURAL
ENGINEERING**

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Res. Agr. Eng.

J. Fryč

**Comparison of the
operation of milking**

milking control valves and a newly designed regulating device

Res. Agr. Eng., 49 (2003): 110-114

One of the basic demands for milking machines is to maintain a constant vacuum level if air consumption by milking machine is changed. The author designed a device with reducing valve for vacuum level regulation and a simultaneous vacuum pump control enabling electric power to be reduced. The paper deals with a comparison of the operation of standard control valves with the newly designed device used for vacuum regulation from the viewpoint of dynamic properties. When measuring vacuum stability by applying various regulation methods and a subsequent statistical evaluation of the results obtained it was proven that the function of the newly designed regulating device was comparable with the best reducing valves used so far.