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EQUIPMENT FOR CONTROLLING INSTABILITIES OF SWIRL FLOW FROM THE CONICAL DIFFUSER OF HYDRAULIC TURBINES



The invention relates to an equipment for controlling the instabilities of the swirl flow from the conical diffuser of hydraulic turbines which run at partial flow rate.

According to the invention, the equipment comprises a bypass pipe (11), a regulating gate (VR), a rotary valve (VO), a calming basin (R) and water injection pipe (12) which, connected in series, link an upstream reservoir (1) and a rotor of the turbine (7), the bypass pipe (11) is connected to a pipe (2) for the delivery of water from the upstream reservoir (1), and the bypass pipe (11) is continued by the regulating gate (VR) which controls the flow rate of the pulsatile jet.

