

A method of press arc welding under control of magnetic field may be used in the motor car construction, construction of water boilers, industrial and civil engineering, in construction of pipelines with the use of pipes of small and medium diameters, for welding of components with continuous and developed cross-sections as well as for joining the components into tee sections. Improvement of quality of obtained welded joints is achieved by regulated continuous displacement of welded components in the process of heating, at that a gap between the end faces of the components is maintained constant and as a control parameter for the gap size values of welding arc voltage are used, the moment of achieving the specified temperature at the end faces of the welded components is determined in accordance with the magnitude of relative displacement of components, after that the welding current is increased and deposition is performed.