

Reducing valves for gas-arc welding

AGA cylinder regulators for gas-arc welding produce an optimum "gas puff" without gas saver thanks to their low working pressure. A certain "gas puff" is necessary in all quality welding to avoid start holes.

The gas supply to the gas-arc welding processes TIG, MIG/MAG and Plasma welding is very important for the welding results. The requirements for quality and the required strength and appearance of the welded product are influenced by the protective gas. To comply with these requirements it is necessary to have pure protective gas in the gas housing, the correct flow of gas, and a certain amount of extra gas at the start of welding. A lot of welding equipment is therefore fitted with a pre-flow of gas.

The simplest method is to use a short gas hose with a small diameter, and as a rule a 1 to 1 1/2 m long hose is sufficient. A 5 mm Ø is normally sufficient. The volume the "gas puff" builds up is thereby optimised.

The right technical and economic prerequisites are achieved with a quality regulator that ensures a constant flow and has a working pressure adjusted for gas-arc welding.