

# MIG Transit Sprayer

## USAGE

The **main function** of MIG Transit Sprayer is providing an **anti spatter shield of the welding gun components** (gas nozzle, contact tip, gas diffuser, contact tip holder and the liner) and to a certain extent to the welding details in MIG/MAG welding processes without necessity of anti-spatter spray usage.

Most suitable for robotized or automated welding systems. It is also used in manual MIG MAG welding too.

System usage **ensures long life of used components** (gas nozzle, contact tip, gas diffuser, contact tip holder and the liner) as usage in optimum welding rates and optimum adjustments, the operating exploitation time of the components is increasing **2-6 times** and in average loaded welding cycles -repeatedly.

The Sprayer is effective in high, average and low rated production welding processes plus the fact that saves a long time for cleaning and substitution of the aforementioned component, which processes are a part of the production time.

## OPERATION of the MIG Transit Sprayer:

The Sprayer contains two modules:

- a chamber for generating of mist concentration.
- a panel for adjusting the mist concentration .

The Sprayer uses welding gas for bearer of mist concentration, that is why the Sprayer must be always installed on the gas line of the welding machine (robot, automate) just **after the gas solenoid**.

A part of the welding gas after the gas solenoid is entering directly to the chamber for generating a mist concentration in which interacts by physical method with specially designed anti-spatter fluid, and other part of the welding gas passes through by-pas. The both flows are connected to a regulator (adjustment) positioned on the adjustment panel and are collecting in a mixer which is a kind of an outlet too. From the Sprayer outlet the welding gas together with the mist in it goes directly to the welding hose to free outlet through the front point of the welding gun where is making the aforementioned anti-spatter shield. Through the fine-tuning regulator (the bronze lever) different levels of protective mist are adjusted, suited to the specific welding process, the rated load and the environment temperature for welding process (see Operating instructions).

**Fluid consumption of the aforementioned sprayer is unique – average 3,2- 5ml on one spool welding wire with weight 15kg. In comparison with one bottle of ordinary anti-spatter welding spray contains 400ml spray , from which you can effectively to use not more than 30 %, the rest is loosing into the atmosphere.**

**Don`t add safety relief valves or non-return valves or any fittings on the outlet of the sprayer!!!**