



Gas Control Equipment



## GAS ECONOMISER GS40A and GS40F

EDITION 1/2017

### WHAT IS GAS ECONOMISER?

The GCE Gas economiser is the leading accessory for shielding gas arc welding as MIG, MAG and TIG welding technologies. With its small and compact design, the GS40 can be installed downstream most common cylinder pressure regulators or outlet point regulators with flow control. GS40 stabilizes flow and optimises shielding gas pressure in the hose during welding process.

### WHY TO USE GAS ECONOMISER?

#### GS40 HELPS TO SAVE UP TO 40% OF YOUR SHIELDING GAS!

Cost of the shielding gas is important factor influencing total cost balance of the welding operation. The savings with GS40 represents up to 0,5ltr of the shielding gas on each average weld. Optimal gas delivery with proper defined pressure and flow-rate improves quality of welding. Cost saving and quality improvement in this area give the advantage to the user on the competitive market.

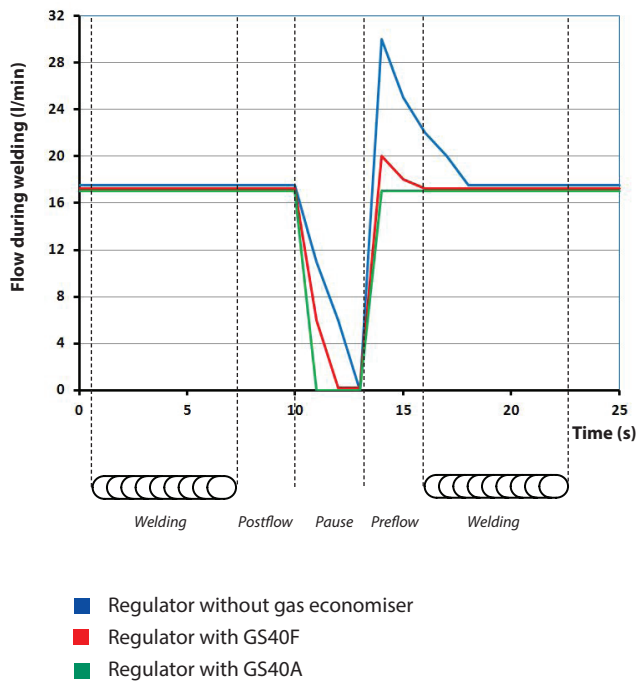


## HOW DOES IT WORK?

When you close the gas flow at common pressure regulator during the welding process interruption, the outlet pressure in the connecting hose raises up much above the optimal level (acc. to ISO 2503 up to 30%). Then the volume of the gas, higher than really needed, is blowing through the system after the welding process starts again by switching on the arc on the welding torch. GS40 minimises amount of such waste gas cumulated in the connecting hose. The optimal, predefined gas flow is delivered to the welding process during all its phases.

Adjustable variant with the handwheel (GS40A) is to be used with regulators with flow-meter, fixed variant (GS40F) with regulators with litre-scaled pressure gauge.

## PRINCIPLE OF GAS SAVING



Art. Nr.	Type	Max. inlet pressure (bar)	Inlet / Outlet connection
F21310010	Adjustable	30	9/16" UNF
F21310005	Adjustable	30	G1/4"
F21310008	Adjustable	30	G3/8"
F21310013	Adjustable	30	M12x1
F21310015	Adjustable	30	M16x1,5
F21310011	Fixed	30	9/16" UNF
F21310006	Fixed	30	G1/4"
F21310009	Fixed	30	G3/8"
F21310012	Fixed	30	M12x1
F21310016	Fixed	30	M16x1,5

## TECHNICAL DATA

Gas:	Ar, Ae/CO <sub>2</sub> , CO <sub>2</sub>
Body:	Aluminium
Bonnet:	Zn/Al alloy Die Cast
Stems, nuts and fittings:	Brass
Diaphragm:	EPDM
Seat sealing:	PA
Inlet/ Outlet connection:	Country specific connection
Maximal inlet pressure:	20 bar
Outlet pressure range:	0-32 l/min
Temperature range:	from -20°C to 60°C
Weight:	Approx. according to gas variant: 0,4kg



Comparison of the gas consumption between common regulator, GCE regulator with the flow-meter and GCE regulator with the flow-meter with Gas economiser GS40A. **The lowest amount of the shielding gas is consumed when GS40A is used.**



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GCE world-wide: <http://www.gcegroup.com>