



SPECIAL CYLINDER REGULATOR

ECOSAVER +

The ECOSAVER+ keeps a constant level of gas pressure and flow in the downstream system during the welding process. This prevents pressure and flow surges from being created in the system. Surges can cause gas waste and give rise to a poor weld.

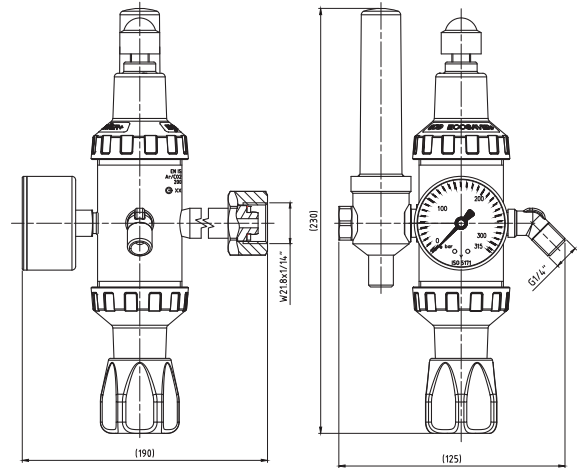
Weld quality and gas consumption are optimised when the ECOSAVER+ is used as part of the control system.



ECOSAVER+

CHARACTERISTICS

- Excellent stability of the outlet pressure
- Ergonomic and robust design
- Variants for all shielding gases
- 300 bar inlet pressure variants available
- In accordance with standards EN ISO 2503, ISO 5171
- Precise scale of the gauge/flowmeter for simple recognition of the values
- Regulation of the outlet pressure thanks to the robust encapsulated valve



TECHNICAL DATA

Gas	Ar, Ar/CO ₂ , Forming Gas	CO ₂
Body	Brass	
Bonnet	Zn/Al alloy Die Cast	
Stems, nuts and fittings	Brass	
Diaphragm	EPDM	
Seat sealing	PA/CR	
Inlet/ Outlet connection	Gas specific connection	
Maximal inlet pressure	200 or 300 bar	200 bar
Outlet pressure/ flow range	0-30 l/min 2 x 0 - 30 l/min	
Temperature range	From -20°C to 60°C	
Weight	Approx. according to gas variant: 2,2 kg	
Pressure relief valve	Used in all variants	

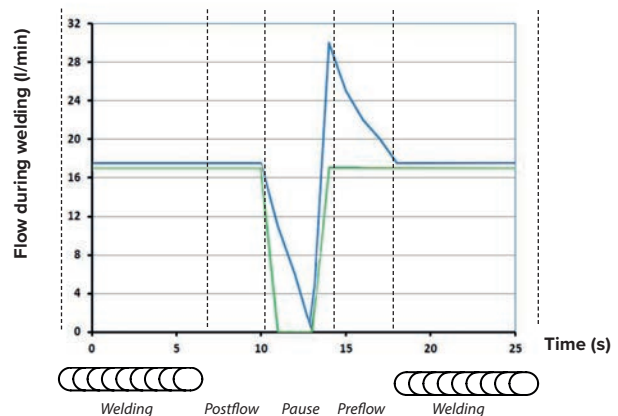
THE BASIC PRINCIPLE OF GAS SAVING

An unwanted waste of gas can occur very often during welding operations .

If the gas flow is interrupted with a standard pressure regulator during the welding process, the outlet pressure in the connecting hose increases above the optimal level.

When the welding process starts again, the volume of the gas, higher than is really needed, surges through the system to the atmosphere.

Ecosaver+ minimises the amount of such **wasted gas** accumulated in the connecting hoses. Thanks to special technology, the optimal, predefined gas flow is delivered to the welding torch during the entire welding process.



- Common single stage cylinder regulator
- Ecosaver+

ECOSAVER+

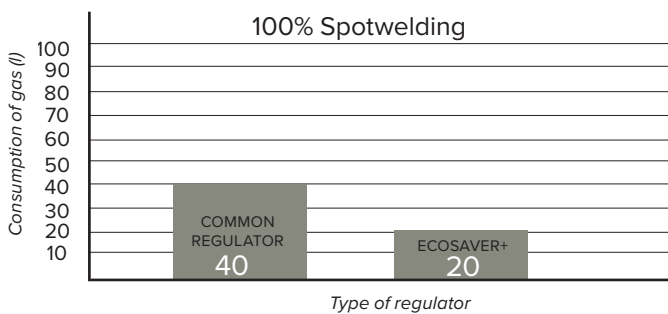
MAIN ADVANTAGES

- Saved gas during the welding operation **of about 40 %***
- High accuracy due to the regulation of the flow
- Continuous supply of the gas during the welding operation
- Specially designed for shielding applications
- Ideal for arc welding technology (MIG/MAG/TIG)
- No pressure increase in the downstream equipment during work interruption
- Easier setting
- Less cylinder changing
- Safer work
- An investment which pays for itself in approximately four months depending on operating conditions
- Ergonomic handwheel for perfect grip

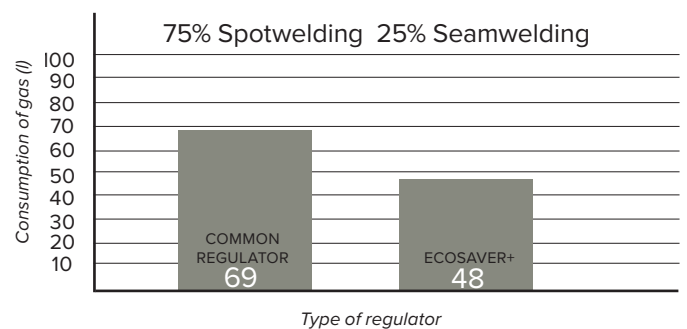
**The 40% lower consumption of gas was validated by an independent test executed under following conditions: 600 welded 3 mm long joints ; Gas: Argon; Compared regulator Dincontrol Flow: 17l/min; Type of welding: MIG*

The real amount of the saved gas depends on many factors. To demonstrate how the results differ with processes performed, we undertook various tests. To measure gas consumption, we used a digital counter flowmeter at the welding torch to ensure that the gas flow was the same for both outlet points, the one with Ecosaver+ and the other with common regulator. During the first test with spot welding operation with Ecosaver + a save of 50 % shielding gas was achieved compared to the same operation with a normal outlet point, as reported on the Graph 1. During the second test with short welding operation with Ecosaver + was achieved a save of 31 % shielding gas compared to the same operation with a normal outlet point, as reported on the Graph 2.

Graph 1



Graph 2



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Art. Nr.	Type	Inlet Pressure	Outlet Flow	Inlet Connection	Outlet Connection
F21410008	Regulator	200 bar	30 l/min	W21.8 x 1/14"	G 1/4"
F21710004	Regulator Double Flow	200 bar	2 x 30 l/min	W21.8 x 1/14	G 1/4 G 1/4
F21710005	Outlet point	40 bar	30 l/min	G3/8	G1/4