



SMOOTHFLO® Dial Select gas flow regulators. Shielding gas regulator with the added bonus of a predictable flow.



Challenge Flow control can be a challenge when using common pressure regulators to weld with argon or other shielding gases. If the flow is not constant, the gas may stream too freely and possibly even blow out the arc. This wastes both gas and time. Similarly, insufficient gas flow can result in welding quality problems. Welders therefore generally use an external flowmeter to monitor and control the gas flow. However, this can be prone to damage and it is sometimes difficult to get accurate measurements particularly if the flow tube is not straight.

Solution SMOOTHFLO® Dial Select regulators from Linde were designed specifically to give the steady, regular flow needed by shielding gas welders. Building on all the proven, high-performance features of the SMOOTHFLO gas pressure regulator, which is optimised for cutting and purging tasks, the SMOOTHFLO Dial Select gas flow regulator is ideal for welding operations with shielding gases such as argon and argon mixes. It gives operators the added bonus of a steady gas flow without the need to connect a separate flowmeter. The correct flow means operators no longer have to worry about wastage or quality-related problems due to excess or insufficient gas flow. SMOOTHFLO Dial Select is manufactured and certified to ISO 2503.

SMOOTHFLO regulators are the most advanced in the industry, incorporating several patented 'world firsts' to take quality and convenience to the next level. SMOOTHFLO and SMOOTHFLO Dial Select combine the best of current regulator features with new customer-led innovative developments, making them among the easiest and safest regulators to use on the market.

Features of SMOOTHFLO regulators

- Enhanced safety with robust, splash/rust-resistant casing; gauge protection; plus tamper-proof piston-embedded safety valve instead of a conventional diaphragm
- Break-off inlet stem with shut-off valve – in the event of a fall, not only will the inlet stem break off to protect the regulator, but a high-performing excess-flow valve will automatically and safely seal off gas discharge
- Maximum durability with regulator bonnet made of brass and body from forged brass
- Approval by KIWA
- 5-year conditional warranty

Additional benefits of SMOOTHFLO Dial Select

- Patented technology ensuring a smooth, near-constant flow of gas to the weld puddle across the entire working pressure range throughout the lifetime of the cylinder
- Easy setup – the operator can use the thumbwheel with click-stop mechanism to set the flowrate and then forget about it
- Greater productivity – no need to attach a separate flowmeter
- Less gas wastage – SMOOTHFLO Dial Select delivers the precise flow welders need

Range

SMOOTHFLO Dial Select regulators are available with connection points on the left and bottom of the regulator. SMOOTHFLO Dial Select regulators are currently available for argon and other shielding gases.

Specifications

Description	Argon 30 lpm
International standards	ISO2503, AS4267
Gas type	argon
Outlet pressure/flow – delivery range	0–30 lpm/constant flow
Regulator outlet connection position	drooped
Regulator inlet connection position	side/bottom,
Regulator outlet connection	market dependent
Inlet stem seat type	hard
Inlet connection	market dependent
Inlet stem to cylinder valve thread	customer specific
Safety valve integrated into piston	yes
Gauge scale	kPa/bar
Thumbwheel calibration	lpm
Inlet pressure (kPa/bar)	20000 kPa/200 bar 30000 kPa/300 bar
Body and bonnet material	brass
Casing material	nylon based
Weight	<1.1kg
Operating temperature	-20 to +60 °C
Warranty	5 years conditional
KIWA approved	yes

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