

# SMOOTHFLO™

Gas pressure regulators



# SMOOTHFLO™ Gas Pressure Regulators

Technology beyond the edge

The all-new SMOOTHFLO™ hybrid gas pressure regulator incorporating “Dynamic Quadflow Stability Control” (DQSC) represents the highest level of development in the global gas pressure regulator arena. Incorporating several world firsts, the SMOOTHFLO™ combines the best of all regulator characteristics worldwide with innovative features that take the technology to a new level, making this regulator one of the easiest to use.

Developed in-house and embodying the Linde spirit of taking the lead, the new SMOOTHFLO™ gas pressure regulator has an innovative and compact design that achieves impressive levels of performance and safety.

This is the first time that this combination of technologies has been applied to an industrial regulator.



## Features

### Maximum setting

- Unlike conventional regulators that require the pressure-adjusting knob to be rotated several times before maximum gas flow/pressure is achieved, SMOOTHFLO™ regulators reach maximum setting with just three turns, effectively reducing the set-up time.

### Unique protective cladding

- The outer casing is manufactured from a robust, impact-resistant and fire retardant nylon-based material
- The cladding is splash resistant and affords ultimate pressure gauge protection
- This outer casing is tamper-proof and would immediately display any evidence of attempted tampering.

### Performance

- Multi-stage like performance is achieved from a single-stage regulator
- The SMOOTHFLO™ incorporates new technology for the encapsulated valve, harnessing the principle of mechanical advantage, in conjunction with piston technology that replaces the conventional diaphragm
- Improved pressure stability is achieved across the entire working pressure range
- Maximum gas utilisation is achieved from each cylinder
- The compact design leads to enhanced safety in operations

due to the mirror configurations preventing hose overlap, reducing the potential risk of oxygen/acetylene fires.

### Technical specifications

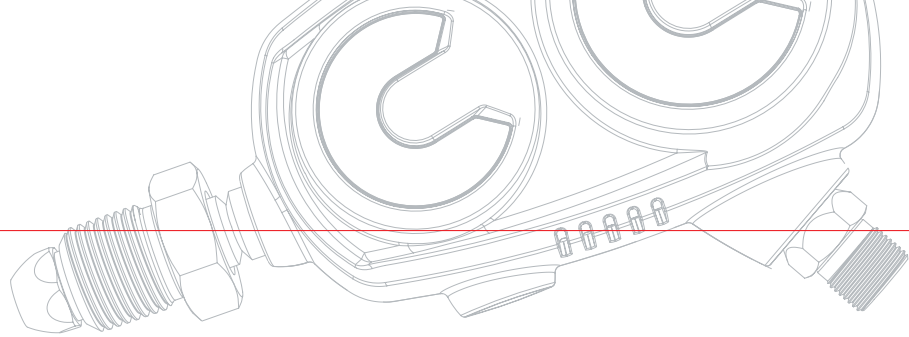
- Oxygen – 20 000 kPa inlet pressure, 0-1 000 kPa max outlet pressure  
5/8" BSP right hand inlet connection  
3/8" BSP outlet connection RH
- Acetylene – 2 500 kPa inlet pressure, 0-150 kPa max outlet pressure  
5/8" BSP left hand inlet connection  
3/8" BSP outlet connection LH.

### Embedded pressure gauges

- State-of-the-art patented gauge technology
- In a world first, the pressure gauges are recessed into the unit, and panel mounted. This is a space-saving feature that also protects the gauges from damage in the industrial working environment
- Unique gauge design reduces possibility of damage to the lenses
- Large fonts on gauge for ease-of-setting.

### Piston-embedded safety valve

- The integrated design makes it an effective tamper-proof safety relief device
- This innovative valve enhances the safety features of the pressure regulator
- This technology provides internal protection against difficult physical environments.



### Break-off inlet stem

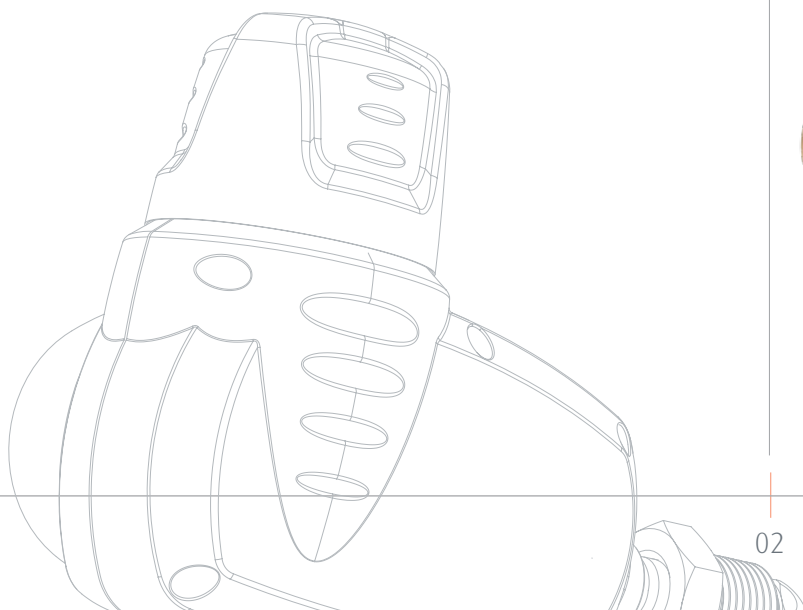
- Representing a critical safety feature, in the event of the regulator and connected cylinder being impacted by a fall, not only will the inlet stem break off to protect the regulator, but a high performing excess-flow valve will automatically and safely seal off gas discharge from the cylinder into the atmosphere.

### Global standards

- Backed by over 50 years of Afrox competency in designing of gas equipment, the SMOOTHFLO™ is ISO 2503 certified.
- Patented design
- Apragaz Oxygen ignition tested
- Apragaz Oxygen promoted ignition tested
- AS 4267 certified
- TÜV certified

## SMOOTHFLO™ Characteristics

- Compact design capable to handle most welding and cutting jobs
- Lightweight, easy to use and approximately 50% lighter than most conventional regulators on the market
- Piston-embedded safety valve, tamper-proof for improved safety and reliability of the pressure regulator
- Hybrid technology enables multi-stage like performance from a single-stage regulator, in conjunction with the unique lever activation encapsulated valve
- Unique lever-activated encapsulated valve with Quadflow technology offers pressure stability, reducing internal forces for improved life and performance
- Panel mounted gauges. This patented technology is unique in pressure regulators, compact, improves safety and reduces potential pressure gauge damage
- Inlet stem with excess flow valve, minimises the risk of producing high flow discharge in the event of the inlet system accidentally breaking off from the regulator.



# NATIONAL CUSTOMER SERVICE CENTRE

Tel: 0860 020202

E-mail: [customer.service@afrox.linde.com](mailto:customer.service@afrox.linde.com)

## GAS & GEAR AND SALES CENTRE CONTACT DETAILS

### Gauteng

Alrode	011-908-9418
Boksburg	011-894-1076/4827
Booyens*	011-493-1717/18
Carletonville	018-787-4167/68
Factoria	011-955-6525/6533
Germiston	011-255-5095/2/3
Jeppe*	011-624-2317
Kya Sands	011-462-3685
Midrand	011-315-0263
Pretoria	012-380-0200
Randfontein	011-692-1901
Roodepoort*	011-858-9507
Silvertondale	012-804-7854
Spartan	011-392-3660/1
Springs	011-362-2353/5
Vanderbijlpark	016-986-0174
Vereeniging	016-455-1592/3
Wadeville	011-827-5971
Wynberg	011-262-4043

### Mpumalanga

Ermelo	017-811-4505
Highveld Steel	013-659-7674
Middelburg	013-246-2921
Nelspruit	013-753-2971
Trichardt	017-638-0055
Witbank	013-655-6301

### Limpopo

Burgersfort*	013-230-3810
Hoedspruit	015-793-0214
Lephalale	014-763-6771
Louis Trichardt	015-516-4106
Mokapane	015-491-6876
Phalaborwa	015-781-2221
Polokwane	015-297-3739
Tzaneen	015-307-3188

### North West

Brits	012-252-4615
Klerksdorp	018-462-5755
Mafikeng	018-381-0175
Potchefstroom	018-297-1702
Rustenburg	014-596-5071

### Free State

Bethlehem	058-303-6908
Bloemfontein	051-406-0500
Welkom	057-391-4732

### KwaZulu-Natal

Empangeni	035-787-1351
Jacobs	031-468-6327
Mkhondeni	033-346-0607
Newcastle	034-375-7861
North Coast Road	031-564-0622
Pietermaritzburg	033-342-9186
Pinetown	031-702-6798
Pongola	034-413-2301
Port Shepstone	039-682-0330
Richards Bay	035-789-1309
Stanger	032-551-4356
Umbilo Road Durban	031-202-3140

### Eastern Cape

East London	043-731-1511
King Williams Town*	043-642-1306
Port Elizabeth	041-486-1200

### Western Cape

Cape Town Epping	021-530-1000
George	044-802-8812/00
Kuils River	021-905-3170
Montague Gardens	021-551-8100
Mossel Bay	044-695-4141
Ottery	021-704-4690
Paarden Eiland	021-511-2196
Paarl	021-862-6197
Stikland	021-948-4710
Strand	021-854-7540
Vredenburg	022-713-2277
Vredendal	027-213-1717
Worcester	023-342-2474

### Northern Cape

Kimberley	053-833-2582
Postmasburg	053-313-1136
Springbok	027-712-1181
Upington	054-332-1803

## TRADING HOURS

Mon - Fri: 08h00 - 16h30 \* Sat: 09h00 - 13h00

[www.afrox.com](http://www.afrox.com)

 **AFROX**  
A Member of The Linde Group