

# Oxy-Acetylene Equipment

## BOC Warranty

### A safe investment

We understand that, when you spend money on a product, you need it to be safe, reliable and appropriate for the job. BOC is so confident in being able to deliver on all these counts that we offer a five year conditional warranty on all our regulators, cutting attachments, blowpipes and mixers.

The warranty ensures that when you purchase a top-of-the-range BOC product, you can have peace of mind that it will perform to the highest Australian standards.

## Gas Equipment Warranty Statement

### Five Year Warranty

BOC original equipment has a 5 year conditional warranty which, on a regulator, covers the following items:

1. Leaks to atmosphere from any pressurised joint or part of the regulator other than its original intended function.
2. Leaks at the outlet connector when the spring pressure on the P/A screw is relaxed.
3. Creeping valve (i.e. delivery gauge pressure gradually rises above set pressure and continues to creep).
4. Inlet or outlet connections do not fit as intended.
5. The regulator does not function as intended.



At any time within the warranty period BOC will, at its discretion, elect to replace or repair any part in the product found by BOC to be defective through faulty material or workmanship.

- Should the product be worked on by anyone other than BOC's authorised repair agents this warranty will become null and void.
- BOC will not be responsible for damage of any kind to equipment or property resulting from improper use, misapplication or failure to use the product in accordance with the operating instructions and general misuse or abuse.
- Failure to produce proof of date of original purchase may render this warranty null and void.
- The defacement or removal of the serial or production number will render the warranty null and void.
- Normal maintenance and repair charges will be levied for work done and parts supplied should the warranty period have expired.
- To the extent permitted by law, where this BOC product is used in the course of a business or trade, BOC excludes any liability or loss of contracts and loss of profits or revenue.

### Warranty period from date of purchase by the first user:

- BOC Regulator – 5 Years
- BOC Cutting Attachment – 5 Years
- BOC Blowpipes – 5 Years
- BOC Mixer – 5 Years

### Excluded from the 5 year warranty:

- O-rings and elastomer seals – 6 months
- Regulator valve and seat assembly – 1 year
- Pressure gauges and flowmeters – 1 year

BOC Customer Service Centre

AUSTRALIA

Call 131 262

# Regulators

## BOC Series 6000 and 8000 Single-Stage Regulators

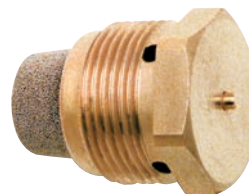


The BOC 6000 and 8000 regulators are at the heart of the BOC gas equipment range. BOC has designed a world-class range of industrial regulators, manufactured to Australian Standard 4267 under a stringent ISO 9001 certified quality management system. These quality regulators are backed by BOC's 5 year conditional warranty.

### Regulator design features include:

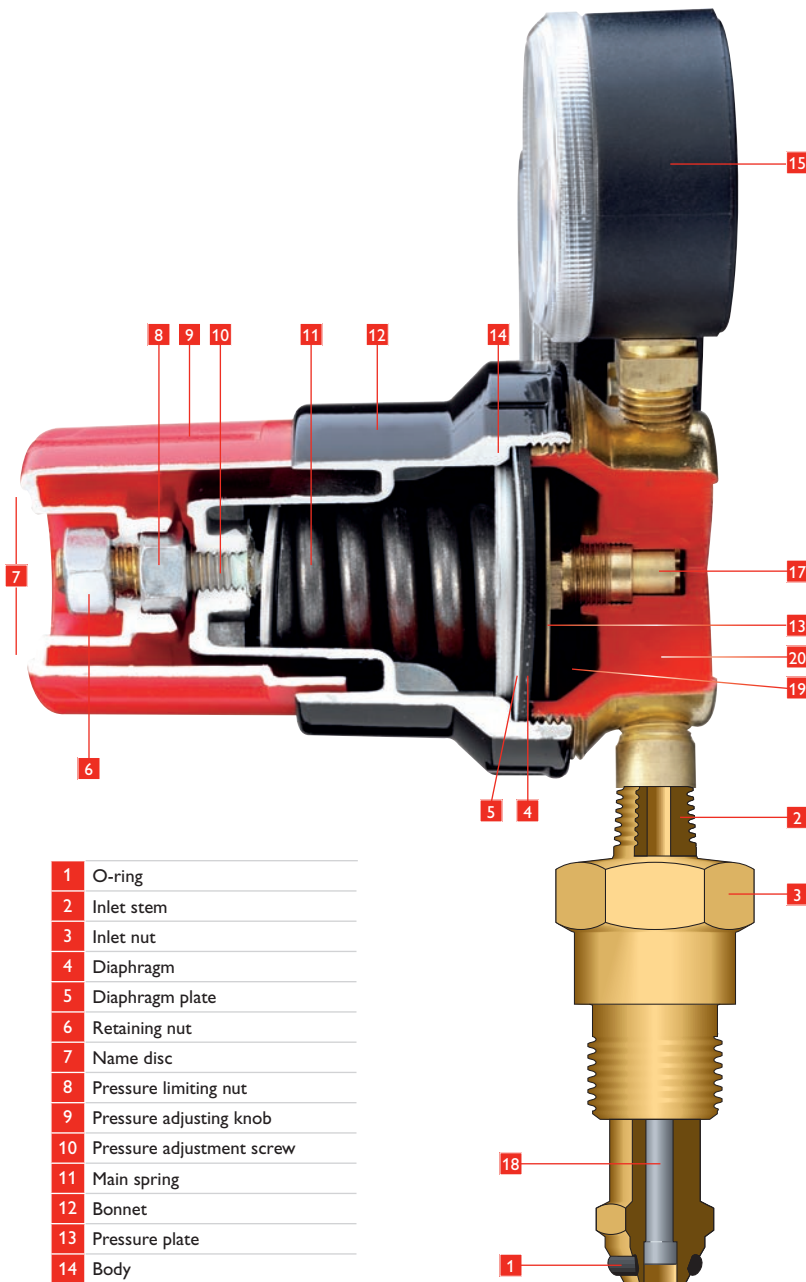
- a fully encapsulated valve for improved performance
- fail-safe precision engineered components for greater safety
- a two-stage sintered filter system to extend the life of the regulator
- easy-to-read, colour-coded gauges for additional user comfort and safety

The encapsulated valve is the most dynamic feature of BOC regulators. Working in conjunction with the diaphragm, the valve delivers superior performance and control.



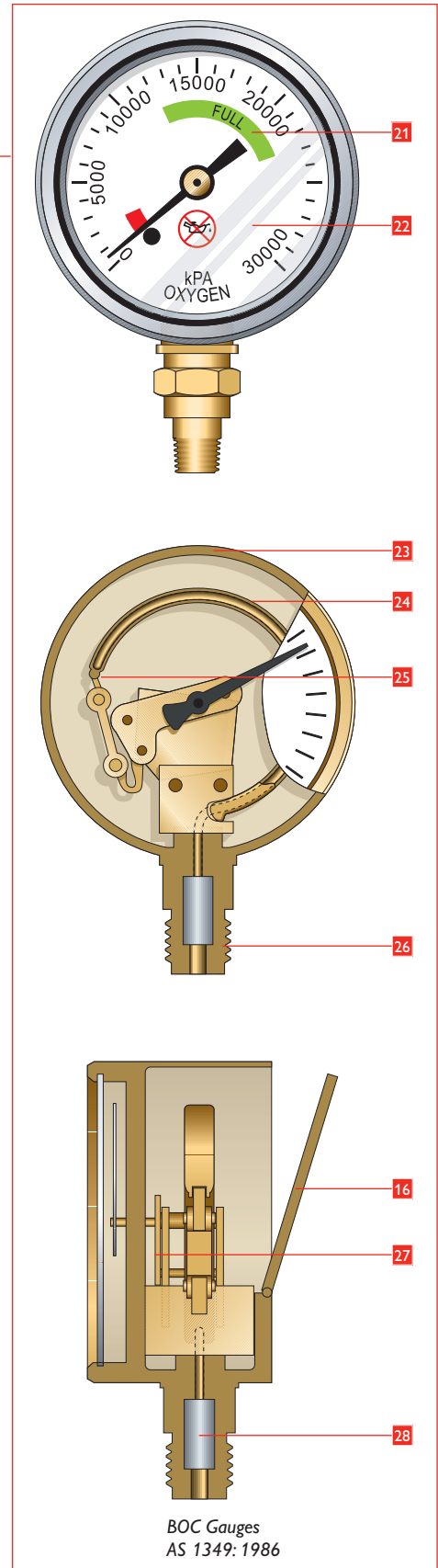
Encapsulated valve

## Single-Stage Regulator Operation



- 1 O-ring
- 2 Inlet stem
- 3 Inlet nut
- 4 Diaphragm
- 5 Diaphragm plate
- 6 Retaining nut
- 7 Name disc
- 8 Pressure limiting nut
- 9 Pressure adjusting knob
- 10 Pressure adjustment screw
- 11 Main spring
- 12 Bonnet
- 13 Pressure plate
- 14 Body
- 15 Pressure gauge
- 16 Safety back plate
- 17 Encapsulated valve
- 18 Inlet stem filter
- 19 Low pressure chamber
- 20 High pressure chamber
- 21 Colour code zones
- 22 Removeable lens
- 23 Solid moulded case
- 24 Bourden tube
- 25 Spring-loaded damper
- 26 1/4 inch NPT fitting
- 27 Calibrated gauge link
- 28 Sintered filter

Inlet stem  
AS 2476: 1996



BOC Gauges  
AS 1349: 1986

## BOC 8000 Oxygen and Acetylene Regulators

BOC is proud to present the BOC 8000 range of regulators.

The standards achieved in their design have resulted in a product at the leading edge of performance, reliability and safety. BOC Regulators are designed to Australian Standard 4267 under the stringent ISO 9001 certified quality management system.

The encapsulated valve is the most dynamic feature of BOC Regulators. Working in conjunction with the diaphragm, the valve delivers superior performance and control.

### Features

- A fully encapsulated valve for improved performance
- Fail-safe precision engineered components for greater safety
- A two-stage sintered filter system to extend the life of the regulator
- Easy to read process colour coded gauges

Description	Part No.
BOC 8000 Oxygen 1000 kPa	105103
BOC 8000 Oxygen 600 kPa	105105
BOC 8000 Acetylene 150 kPa	105101



105103



105105



105101

## BOC 6000 Oxygen, Acetylene and LPG Regulators

BOC is proud to present the BOC 6000 range of regulators.

The standards achieved in their design have resulted in a product at the leading edge of performance, reliability and safety. BOC Regulators are designed to Australian Standard 4267 under the stringent ISO 9001 certified quality management system.

The encapsulated valve is the most dynamic feature of BOC Regulators. Working in conjunction with the diaphragm, the valve delivers superior performance and control.

### Features

- A fully encapsulated valve for improved performance
- Fail-safe precision engineered components for greater safety
- A two-stage sintered filter system to extend the life of the regulator
- Easy to read process colour coded gauges

Description	Part No.
BOC 6000 Oxygen 600 kPa	105203
BOC 6000 Acetylene 150 kPa	105201
BOC 6000 LPG 400 kPa	105214



105203



105201



105214

## Shielding Gas Regulators

BOC 6000 Argon and CO<sub>2</sub> shielding gas regulators have been designed for MIG and TIG mixed gas and pure gas processes.

BOC shielding gas regulators and flowmeters meet the requirements of AS 4267 under AS 2473: 1990 requirements for cylinder valve connections.

### Features

- A fully encapsulated valve for improved performance
- Precision engineered components for greater safety
- A two stage sintered filter system to extend the life of the regulator
- Easy to read process colour coded gauges

### BOC 6000 Shielding Gas Regulators

Description	Part No.
BOC 6000 Argon 45 L/min	105206
BOC 6000 CO <sub>2</sub> 45 L/min	105207



105206



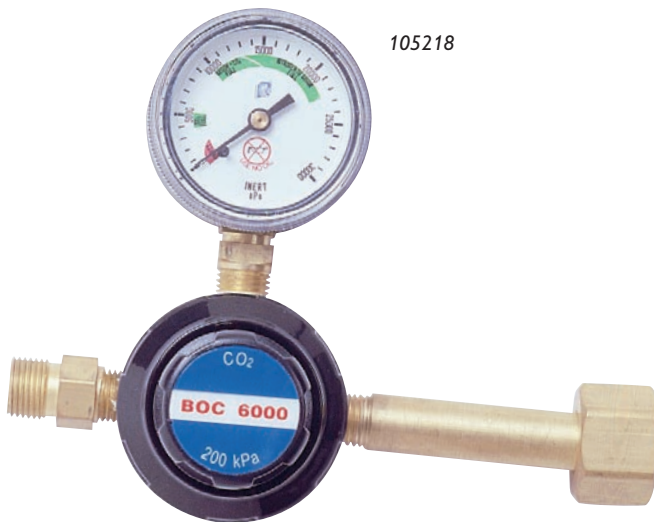
105207

## Shielding Gas Regulators (cont)

### BOC Pre-Set Regulators

BOC pre-set regulators are pre-set units which allow a flowmeter to be attached. They incorporate a fully encapsulated BOC valve for exceptionally consistent flow characteristics, longer life, improved performance and precision-engineered components for greater safety.

Description	Part No.
BOC 6000 Argon pre-set 200 kPa	105217
BOC 6000 CO <sub>2</sub> pre-set 200 kPa	105218



105218



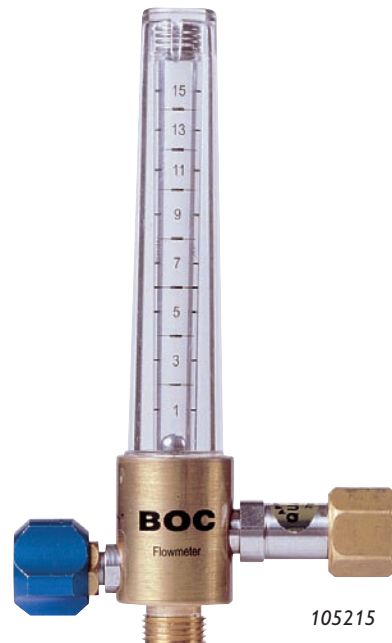
105217

### BOC Flowmeters

The BOC flowmeter is accurately designed to give easy-to-read flow measurement for MIG or TIG welding.

The BOC flowmeter is built to be a durable, long-lasting product, with a brass and shatter-resistant polycarbonate construction and a shock-absorption fitting to protect the flow tube from high-pressure surges. BOC flowmeters are compatible with, and sold separately from, the BOC Series 6000 pre-set regulators.

Description	Part No.
BOC Flowmeter 0–15 L/min	105215
BOC Flowmeter 10–40 L/min	105216



105215

## BOC Regulator Specifications Chart

	Max. Outlet Pressure (kPa)	Flow rate @ 21,000 kPa Inlet Pressure (L/min)	Max. Pressure @ 15°C (kPa)	Inlet Connection	Outlet Connection	Part No.
BOC 8000 Air Regulator	1,000	1065	20,000	Type 60	5/8"-18 UNF	105108
BOC 8000 Nitrogen Regulator	1,000	1086	20,000	Type 50	5/8"-18 UNF	105107

	Outlet Pressure	Max. Flow (L/min)	Inlet Gauge Range (kPa)	Outlet Gauge Range (kPa)	Inlet Connection	Outlet Connection	Part No.
BOC 8000 Oxygen Regulator	1,000	1,650	0–30,000	0–1,600	5/8" BSP RH Type 10.5	5/8"-18 UNF RH	105103
BOC 8000 Acetylene Regulator	150	242*	0–4,000	0–240	5/8" BSP LH Type 20	5/8"-18 UNF LH	105101
BOC 6000 Oxygen Regulator	600	956	0–30,000	0–900	5/8" BSP RH Type 10	5/8"-18 UNF RH	105203
BOC 6000 Acetylene Regulator	150	117*	0–4,000	0–240	5/8" BSP LH Type 20	5/8"-18 UNF LH	105201
BOC 6000 LPG Regulator	400	250	Not fitted	0–600	0.880"-14 NGO LH	5/8"-18 UNF LH	105214
BOC 6000 Argon pre-set Regulator	200	40	0–30,000	Not fitted	5/8" BSP RH Type 10	5/8"-18 UNF RH	105217
BOC 6000 Argon Shielding Gas Regulator	150	45	0–30,000	0–60	5/8" BSP RH Type 10	5/8"-18 UNF RH	105206
BOC 6000 CO <sub>2</sub> pre-set Regulator	200	40	0–30,000	Not fitted	0.86"-14 (Nut) Type 30	5/8"-18 UNF RH	105218
BOC 6000 CO <sub>2</sub> Shielding Gas Regulator	150	45	0–30,000	0–60	0.86"-14 (Nut) Type 30	5/8"-18 UNF RH	105207

	Inlet Pressure (kPa)	Max Flow (L/min)	Flow Range (L/min)	Inlet Connection	Outlet Connection	Part No.
BOC Flowmeters	200	15	0–15	5/8"-18 UNF RH (Nut)	5/8"-18 UNF RH	105215
For use with BOC pre-set regulators	200	40	10–40	5/8"-18 UNF RH (Nut)	5/8"-18 UNF RH	105216

\*At no time should the withdrawal rate of an individual acetylene cylinder exceed 1/7 of the cylinder contents per hour. If additional flow capacity is required, use an acetylene manifold system to supply the necessary volume.