



# **TESUCO**

## **TECHNICAL SUPPLIES COMPANY**

# **Regulators**

**QUALITY GAS EQUIPMENT**

[tesuco.com.au](http://tesuco.com.au)



Our name Tesuco® comes from  
**Technical Supplies Company.**

## We Thank You For Choosing Our Quality Gas Equipment

Beginning in 1988, Tesuco® has established itself as a specialist equipment supplier for all gas welding, heating and cutting applications. Tesuco® is proud to be 100% Australian owned and has been quality endorsed by SAI Global to the AS/NZS ISO 9001 Standard since 1995.

Tesuco® continues to introduce new and exciting products from the best Australian and overseas manufacturers. This booklet introduces you to our range of welding, heating and cutting equipment, available through our extensive distributor network both here and abroad.



### Tesuco Pty Ltd

Head Office	Unit 12, 110-120 Silverwater Road, Silverwater NSW 2128
Hours	Mon - Fri 8am - 5pm
Phone	+61 2 9737 9937
Sales	<a href="mailto:sales@tesuco.com.au">sales@tesuco.com.au</a>
Orders	<a href="mailto:orders@tesuco.com.au">orders@tesuco.com.au</a>
Website	<a href="http://tesuco.com.au">tesuco.com.au</a>



Only trained operators may use this equipment.



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view our complete  
range of regulators.





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# Industrial

## Single Stage



### OXYGEN

The oxygen regulators have been manufactured and tested to AS 4267. As well as passing the oxygen shock test, they have also passed the other more severe oxygen ignition test. They are manufactured from machined brass, are easily adjustable and have easy to read pressure gauges. The regulator is colour coded and marked as required in the standard.

- Independently tested
- Oxygen shock test
  - Oxygen promoted ignition test

SPECIFICATIONS	RC1BOX10	RC1SOX10	RC1SOX4.5
<b>Flow rate</b> <i>Note: flowrate @ 250 kPa outlet, 2,100 kPa inlet.</i>		80 m³/hr	
<b>Inlet configuration</b>	Bottom entry	Side entry	Side entry
<b>Max. inlet pressure (<math>p_1</math>)</b>		20,000 kPa	
<b>Max. outlet pressure (<math>p_2</math>)</b>	1,000 kPa	1,000 kPa	450 kPa
<b>Inlet connection</b>		Type 10	
<b>Outlet connection</b>		5/8-18 UNF-RH Male	

*i*
Meets AS 4267



### ACETYLENE

Tesuco® acetylene regulators have been manufactured and tested to AS 4267. They are manufactured from machined brass, are easily adjustable and have easy to read pressure gauges. The regulator is colour coded and marked as required in the standard.

SPECIFICATIONS	RC1BAC1.5	RC1SAC1.5
<b>Flow rate</b> <i>Note: flowrate @ 134 kPa outlet, 300 kPa inlet.</i>		28.5 m³/hr
<b>Inlet configuration</b>	Bottom entry	Side entry
<b>Max. inlet pressure (<math>p_1</math>)</b>		2,500 kPa
<b>Max. outlet pressure (<math>p_2</math>)</b>		150 kPa
<b>Inlet connection</b>		Type 20
<b>Outlet connection</b>		5/8-18 UNF-LH Male

*i*
Meets AS 4267





Meets AS 4267

### LPG

The rear entry LPG regulators are designed so that the cylinder shroud is adequately cleared by the regulator outlet, so that flashback arrestors and hoses can be easily connected. They are manufactured from machined brass, are easily adjustable and have easy to read pressure gauges. The regulator is colour coded and marked as required in the standard.

RC1RLP4-3 is designed for air propane with high flowrates.

SPECIFICATIONS	RC1RLP4	RC1RLP4-3
Flow rate		28.5 m³/hr
Inlet configuration		Rear entry
Max. inlet pressure ( $p_1$ )		20,000 kPa
Max. outlet pressure ( $p_2$ )		400 kPa
Inlet connection		Type 21
Outlet connection	5/8-18 UNF-LH Male	3/8" BSP LH



### MINI REGULATOR

The RCLPM4 model is designed with a "POL" type inlet connection. Made from solid brass it is compact in size to fit small cylinders. The outlet pressure is adjustable to 400 kPa with a maximum flow rate of 6 kg/h.

Designed for air propane equipment.

SPECIFICATIONS	RCLPM4
Max. inlet pressure ( $p_1$ )	1,000 kPa
Max. outlet pressure ( $p_2$ )	400 kPa
Flow rate	6 kg/h



### HELIUM BALLOON

A range of helium balloon regulators are available for the quick and simple inflation of balloons. The basic model connects directly to the cylinder and has the latest design tilt inflator on top. There is also a model that has a hand wheel for securing to the cylinder, a pressure gauge to show the cylinder contents and the latest design tilt inflator.

SPECIFICATIONS	RCB	RCBH
Max. inlet pressure ( $p_1$ )		20,000 kPa
Max. outlet pressure ( $p_2$ )		350 kPa
Inlet connection	Type 10	Type 10 handwheel
Outlet connection		Balloon nozzle



# Industrial

## Single Stage



**INERT GAS**

Tesuco® offers an Inert gas regulator for applications where argon is required for pressure applications rather than flow. It is available for vertical or side exit cylinder valves. They are manufactured from machined brass, are easily adjustable and have easy to read pressure gauges. The regulator is colour coded and marked as required in the standard.

SPECIFICATIONS	RC1BIG10	RC1SIG10
<b>Flow rate</b> <i>Note: flowrate @ 250 kPa outlet, 2,100 kPa inlet.</i>	80 m³/hr	
<b>Inlet configuration</b>	Bottom entry	Side entry
<b>Max. inlet pressure (<math>p_1</math>)</b>	20,000 kPa	
<b>Max. outlet pressure (<math>p_2</math>)</b>	1,000 kPa	
<b>Inlet connection</b>	Type 10	
<b>Outlet connection</b>	5/8-18 UNF-RH Male	

*i*
Meets AS 4267



**NITROGEN**

The Tesuco® nitrogen regulators have been manufactured and tested to AS 4267. They are manufactured from machined brass, are easily adjustable and have easy to read pressure gauges. The regulator is colour coded and marked as required in the standard.

SPECIFICATIONS	RC1BNI10	RC1SNI10
<b>Flow rate</b> <i>Note: flowrate @ 250 kPa outlet, 2,100 kPa inlet.</i>	80 m³/hr	
<b>Inlet configuration</b>	Bottom entry	Side entry
<b>Max. inlet pressure (<math>p_1</math>)</b>	20,000 kPa	
<b>Max. outlet pressure (<math>p_2</math>)</b>	1,000 kPa	
<b>Inlet connection</b>	Type 50	
<b>Outlet connection</b>	5/8-18 UNF-RH Male	

*i*
Meets AS 4267



Two Stage regulators incorporate all components and features of a single stage regulator. In addition, however, they also contain a second pressure adjusting spring; diaphragm; and valve and seat assembly, known as the "1st Stage". The first stage is not user adjustable it is "pre-set" at the factory. The "2nd stage" then performs in a manner similar to that of a single-stage regulator, except that the inlet pressure to the second stage is relatively constant.

Because of the two-step pressure reduction, final delivery pressure of a two-stage regulator is constant and shows little effect from changes in cylinder pressure.



## ACETYLENE

Bottom & Side Entry



Meets AS 4267

SPECIFICATIONS	RT2BAC1.5	RT2SAC1.5
Flow rate	8.5 m <sup>3</sup> /hr	
Inlet configuration	Bottom entry	Side entry
Max. inlet pressure ( $p_1$ )	2,500 kPa	
Max. outlet pressure ( $p_2$ )	150 kPa	
Inlet connection	Type 20	
Outlet connection	5/8-18 UNF-LH	



## HYDROGEN

Bottom & Side Entry



Meets AS 4267

SPECIFICATIONS	RT2BHY10	RT2SHY10
Flow rate	140 m <sup>3</sup> /hr	
Inlet configuration	Bottom entry	Side entry
Max. inlet pressure ( $p_1$ )	20,000 kPa	
Max. outlet pressure ( $p_2$ )	1,000 kPa	
Inlet connection	Type 20	
Outlet connection	5/8-18 UNF-LH	



## LPG

Bottom & Side Entry



Meets AS 4267

SPECIFICATIONS	RT2BLP40	RT2SLP4
Flow rate	13 m <sup>3</sup> /hr	
Inlet configuration	Bottom entry	Side entry
Max. inlet pressure ( $p_1$ )	2,500 kPa	
Max. outlet pressure ( $p_2$ )	400 kPa	
Inlet connection	Type 21	
Outlet connection	5/8-18 UNF-LH	



# Industrial Two Stage



**OXYGEN**  
Bottom & Side Entry

Independently tested

- Oxygen shock test

**i** Meets AS 4267

SPECIFICATIONS	RT2BOX10	RT2SOX10
Flow rate	35 m³/hr	
Inlet configuration	Bottom entry	Side entry
Max. inlet pressure ( $p_1$ )	20,000 kPa	
Max. outlet pressure ( $p_2$ )	1,000 kPa	
Inlet connection	Type 10	
Outlet connection	5/8-18 UNF-RH	



**INERT GAS**  
Bottom & Side Entry

**i** Meets AS 4267

SPECIFICATIONS	RT2BIG10	RT2SIG10
Flow rate	31 m³/hr	
Inlet configuration	Bottom entry	Side entry
Max. inlet pressure ( $p_1$ )	20,000 kPa	
Max. outlet pressure ( $p_2$ )	1,000 kPa	
Inlet connection	Type 10	
Outlet connection	5/8-18 UNF-RH	



**NITROGEN**  
Side Entry, Type 50

**i** Meets AS 4267

SPECIFICATIONS	RT2BNI10	RT2SNI10
Flow rate	31 m³/hr	
Inlet configuration	Bottom entry	Side entry
Max. inlet pressure ( $p_1$ )	20,000 kPa	
Max. outlet pressure ( $p_2$ )	1,000 kPa	
Inlet connection	Type 50	
Outlet connection	5/8-18 UNF-RH	



### ARGON FOR ARGON & ARGON MIXTURES

The Tesuco® range of argon shielding gas regulators caters for both vertical and side cylinder valves. They are available in both flow gauge style and a set pressure with flowmeter combination. They are manufactured from machined brass, are easily adjustable and have easy to read pressure gauges. The regulator is colour coded and marked as required in the standard.



#### FLOW GAUGE

Bottom Entry

SPECIFICATIONS	RC1BARFG
Flowrate	0 - 35 L/min
Inlet configuration	Bottom entry
Max. inlet pressure ( $p_i$ )	20,000 kPa
Inlet connection	Type 10
Outlet connection	5/8-18 UNF-RH Male



Meets AS 4267



#### FLOW GAUGE

Side Entry

SPECIFICATIONS	RC1SARFG
Flowrate	0 - 35 L/min
Inlet configuration	Side entry
Max. inlet pressure ( $p_i$ )	20,000 kPa
Inlet connection	Type 10
Outlet connection	5/8-18 UNF-RH Male



Meets AS 4267



# Welding Gases

## Single Stage



### SET PRESSURE

Bottom Entry

SPECIFICATIONS	RC1BARSP
Inlet configuration	Bottom entry
Max. inlet pressure ( $p_i$ )	20,000 kPa
Set pressure	200 kPa
Inlet connection	Type 10
Outlet connection	5/8-18 UNF-RH Male



Meets AS 4267



### SET PRESSURE

Bottom Entry with Flowmeter

SPECIFICATIONS	RC1BARFM
Flowrate	0 - 25 L/min
Inlet configuration	Bottom entry
Max. inlet pressure ( $p_i$ )	20,000 kPa
Inlet connection	Type 10
Outlet connection	5/8-18 UNF-RH Male



Meets AS 4267



### SET PRESSURE

Bottom Entry with Two Flowmeters

SPECIFICATIONS	RC1BAR2FM
Flowrate	0 - 25 L/min
Inlet configuration	Bottom entry
Max. inlet pressure ( $p_i$ )	20,000 kPa
Inlet connection	Type 10
Outlet connection	5/8-18 UNF-RH Male



Meets AS 4267



# Welding Gases

## Single Stage



### SET PRESSURE

Side Entry

#### SPECIFICATIONS

SPECIFICATIONS	RC1SARSP
Inlet configuration	Side entry
Max. inlet pressure ( $p_i$ )	20,000 kPa
Set pressure	200 kPa
Inlet connection	Type 10
Outlet connection	5/8-18 UNF-RH Male



Meets AS 4267



### SET PRESSURE

Side Entry with Flowmeter

#### SPECIFICATIONS

SPECIFICATIONS	RC1SARFM
Flowrate	0 - 25 L/min
Inlet configuration	Side entry
Max. inlet pressure ( $p_i$ )	20,000 kPa
Inlet connection	Type 10
Outlet connection	5/8-18 UNF-RH Male



Meets AS 4267



### SET PRESSURE

Side Entry with Two Flowmeters

#### SPECIFICATIONS

SPECIFICATIONS	RC1SAR2FM
Flowrate	0 - 25 L/min
Inlet configuration	Side entry
Max. inlet pressure ( $p_i$ )	20,000 kPa
Inlet connection	Type 10
Outlet connection	5/8-18 UNF-RH Male



Meets AS 4267



# Welding Gases

## Single Stage

### CARBON DIOXIDE

The Tesuco® range of carbon dioxide shielding gas regulators caters for side exit cylinder valves. They are available in both flow gauge style and a set pressure with flowmeter combination. They are manufactured from machined brass, are easily adjustable and have easy to read pressure gauges. The regulator is colour coded and marked as required in the standard.



**FLOW GAUGE**  
CO<sub>2</sub>

**i** Meets AS 4267

SPECIFICATIONS	RC1SCDFG
Flow rate	0 - 35 L/min
Inlet configuration	Side entry
Max. inlet pressure ( $p_i$ )	20,000 kPa
Inlet connection	Type 30
Outlet connection	5/8-18 UNF-RH Male



**SET PRESSURE**  
CO<sub>2</sub>

**i** Meets AS 4267

SPECIFICATIONS	RC1SCDSP
Inlet configuration	Side entry
Max. inlet pressure ( $p_i$ )	20,000 kPa
Set pressure	200 kPa
Inlet connection	Type 30
Outlet connection	5/8-18 UNF-RH Male



**SET PRESSURE**  
CO<sub>2</sub> with Flowmeter

**i** Meets AS 4267

SPECIFICATIONS	RC1SCDFM
Flow rate	0 - 25 L/min
Inlet configuration	Side entry
Max. inlet pressure ( $p_i$ )	20,000 kPa
Inlet connection	Type 30
Outlet connection	5/8-18 UNF-RH Male



### ARGON HEAT SINK

The heat sink style regulator is designed for argon shielding gas mixtures where high flows are required. The special design prevents freezing of the regulator without the use of a heater. It is pressure compensated to ensure accurate flow meter readings. The outlet is a standard 5/8-18 UNF-RH connection so a combination of flow meters and T pieces can be fitted.



#### SET PRESSURE

SPECIFICATIONS	RG1SARHS
Flow rate	100 L/min
Max. inlet pressure ( $p_i$ )	20,000 kPa
Inlet connection	Type 10
Outlet connection	5/8-18 UNF-RH Male



RG1SARHS25

#### SET PRESSURE

With Flowmeter

SPECIFICATIONS	RG1SARHS25	RG1SARHS40
Outlet configuration	1 x 25 L/min Flowmeter	1 x 40 L/min Flowmeter
Max. inlet pressure ( $p_i$ )	20,000 kPa	
Inlet connection	Type 10	
Outlet connection	5/8-18 UNF-RH Male	



RG1SARHS25T

#### SET PRESSURE

With Two Flowmeters

SPECIFICATIONS	RG1SARHS25T	RG1SARHS40T
Outlet configuration	2 x 25 L/min Flowmeters	2 x 40 L/min Flowmeters
Max. inlet pressure ( $p_i$ )	20,000 kPa	
Inlet connection	Type 10	
Outlet connection	5/8-18 UNF-RH Male	



# Welding Gases

## Single Stage

### CARBON DIOXIDE HEAT SINK

The heat sink style regulator is designed for carbon dioxide shielding gas mixtures where high flows are required. The special design prevents freezing of the regulator without the use of a heater. It is pressure compensated to ensure accurate flow meter readings. The outlet is a standard 5/8-18 UNF-RH connection so a combination of flow meters and T pieces can be fitted.



#### SET PRESSURE

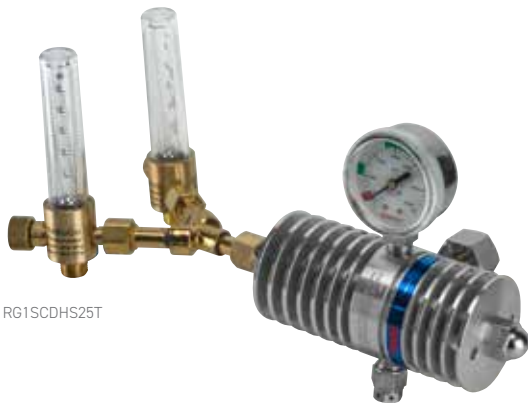
SPECIFICATIONS	RG1SCDHS
Flowrate	100 L/min
Max. inlet pressure ( $p_i$ )	20,000 kPa
Outlet set pressure	300 kPa
Inlet connection	Type 30
Outlet connection	5/8-18 UNF-RH Male



RG1SCDHS25

#### SET PRESSURE With Flowmeter

SPECIFICATIONS	RG1SCDHS25	RG1SCDHS40
Outlet configuration	1 x 25 L/min Flowmeter	1 x 40 L/min Flowmeter
Max. inlet pressure ( $p_i$ )	20,000 kPa	
Outlet set pressure	300 kPa	
Inlet connection	Type 30	
Outlet connection	5/8-18 UNF-RH Male	



RG1SCDHS25T

#### SET PRESSURE With Two Flowmeters

SPECIFICATIONS	RG1SCDHS25T	RG1SCDHS40T
Outlet configuration	2 x 25 L/min Flowmeters	2 x 40 L/min Flowmeters
Max. inlet pressure ( $p_i$ )	20,000 kPa	
Outlet set pressure	300 kPa	
Inlet connection	Type 30	
Outlet connection	5/8-18 UNF-RH Male	



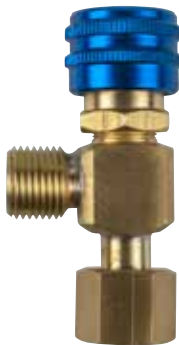


RCFL40

### FLOWMETERS

Flowmeters are used for precise flow control of the shielding gas to the MIG gun nozzle in welding applications. Tesuco® has two in the range. One is 0-25 L/min for TIG and smaller flow MIG applications and the other is a 0-40 L/min for the larger flow MIG applications.

SPECIFICATIONS	RCFL25	RCFL40
Max. working pressure	800 kPa	
Inlet connection	5/8-18 UNF-RH Female	
Outlet connection	5/8-18 UNF-RH Male	



RAFR08

### FLOW RESTRICTORS

In some applications for shielding gas where the work is repetitious and the shielding gas flow does not need to change, flow restrictors can be the best option. These are units that attach to the outlet of the set pressure regulator and have a pre-set flow rate. They have a quarter turn on/off knob and have no flow adjustment. Tesuco® can supply these in three different flow settings.

SPECIFICATIONS	RAFR08	RAFR15	RAFR20
Flowrate	8 L/min	15 L/min	20 L/min
Gas Service	Argon/Carbon Dioxide		
Inlet Connection	5/8-18 UNF-RH		



### FLOW TESTER

In all MIG and TIG welding applications it is important to establish the exact flow rate of the shielding gas for the welding operation being performed. This is best done at the welding gun nozzle itself. The Tesuco® flow tester is a small economical unit that can be fitted at the end of the nozzle in a vertical position, with the wire feeder off the trigger on the gas can be activated and the actual gas flow observed.

SPECIFICATIONS	RCFT40T
Flowrate	0 - 40 L/min



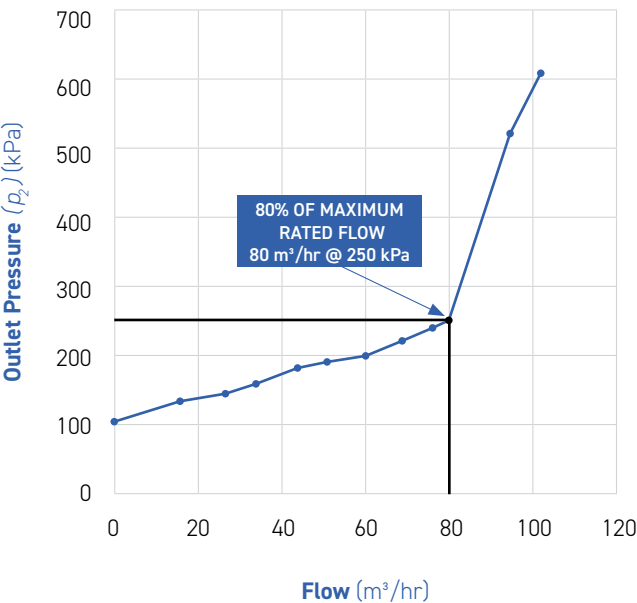
# Welding Gases

## Flowmeters & Restrictors

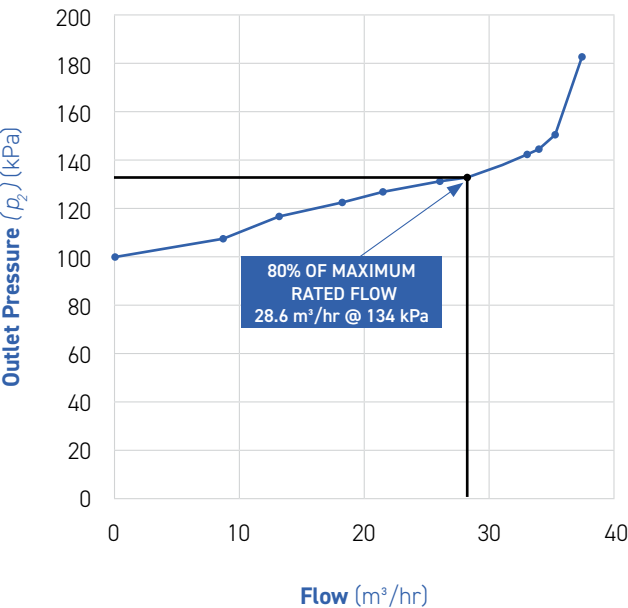
### SINGLE STAGE

RC Series

#### Oxygen / Inert / Permanent Gases



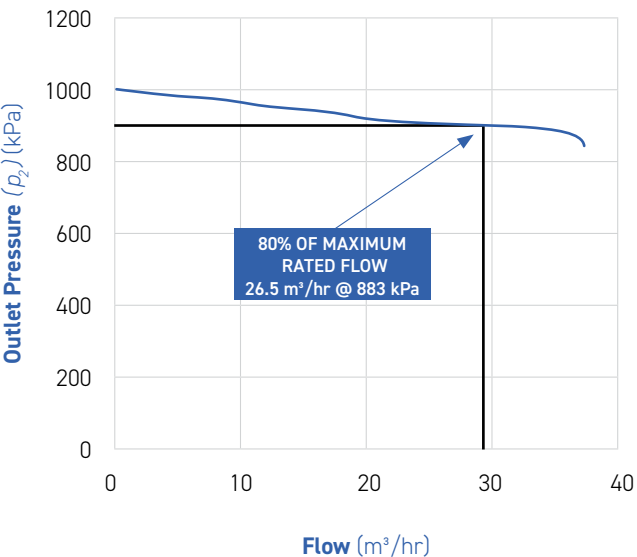
#### Acetylene



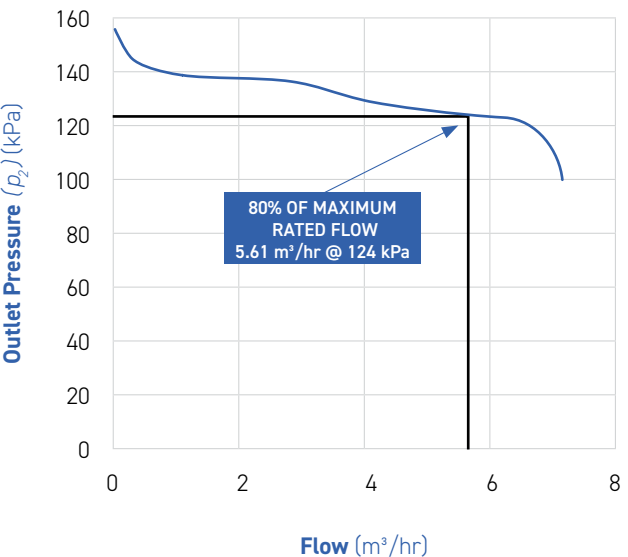
### TWO STAGE

RT Series

#### Oxygen / Inert / Permanent Gases



#### Acetylene





# High Pressure Single Stage



RI1SNI60C

## PISTON STYLE

This professional piston style regulator has a rugged brass construction with large easy to read dual scale kPa/psi pressure gauges with gauge protectors fitted. The regulator is colour coded and engraved or labelled with all the requirements of the standard AS 4267. This regulator has been designed specifically for the air conditioning and refrigeration industries.

Meets AS 4267

SPECIFICATIONS	RI1SAI60C	RI1SNI60C
<b>Flow rate</b> <i>Note: flowrate @ 6,000 kPa outlet, 20,000 kPa inlet.</i>	150 m <sup>3</sup> /hr	
<b>Inlet configuration</b>	Side entry	
<b>Gas service</b>	Air	Nitrogen
<b>Max. inlet pressure (<math>p_1</math>)</b>	30,000 kPa	
<b>Max. outlet pressure (<math>p_2</math>)</b>	6,000 kPa	
<b>Inlet connection</b>	Type 60	Type 50



## NITROGEN 6,000 kPa REGULATOR & TEST GAUGE KIT

Part No: RI1SNI60CTG

The same professional regulator, with the hand wheel tightening feature supplied as a kit with the refrigeration test gauge, all in a sturdy IP55 rated plastic storage case with a foam insert to keep the regulator and test gauge safe from damage.

Meets AS 4267



# High Pressure

## Single Stage

RG1S300



Regulators can be fitted with various inlets to suit gas type various outlets available to suit application.

Eg. Oxygen 5,000 kPa outlet, part number: RG1SOX50

SPECIFICATIONS	RG1S50	RG1S100	RG1S200	RG1S300
Flow rate	135 m³/hr <i>Note: flowrate @ 5,000 kPa outlet, 20,000 kPa inlet</i>	340 m³/hr <i>Note: flowrate @ 10,000 kPa outlet, 20,000 kPa inlet</i>	360 m³/hr <i>Note: flowrate @ 10,000 kPa outlet, 20,000 kPa inlet</i>	360 m³/hr <i>Note: flowrate @ 10,000 kPa outlet, 20,000 kPa inlet</i>
Inlet configuration	Side entry	Side entry	Side entry	Side entry
Max. inlet pressure ( $p_1$ )	20,000 kPa	30,000 kPa	30,000 kPa	40,000 kPa
Max. outlet pressure ( $p_2$ )	5,000 kPa	10,000 kPa	20,000 kPa	30,000 kPa
Inlet connection	1/4" NPT FM	1/4" NPT FM	1/4" NPT FM	1/4" NPT FM
Outlet connection	1/4" NPT FM	1/4" NPT FM	1/4" NPT FM	1/4" NPT FM



### HEATER REGULATOR

- Regulator is preset at 20,000 kPa
- Thermostatically-controlled built-in electric heater keeps the CO<sub>2</sub> warm and provides continuous duty cycle without freezing
- 2 1/2" gauges for easy reading
- Forged brass body and housing cap
- Sintered bronze inlet filter

SPECIFICATIONS	RG1SHR
Flow rate <i>Note: flowrate @ 15°C</i>	50 m³/hr
Max. inlet pressure ( $p_1$ )	20,000 kPa
Max. outlet pressure ( $p_2$ )	1,300 kPa
Inlet connection	Type 30
Outlet connection	G 1/2" RH Male
Heater	1200 W / 220 V
Weight	4.4 kg





Meets AS 4267

### SINGLE STAGE Cylinder Mount

#### SPECIFICATIONS

#### RC1SCD04R

Max. working pressure	20,000 kPa		
Delivery pressure	0 - 400 kPa		
Inlet	Type 30 stem and nut		
Outlet	5/8-18 UNF RH with nut and 5 mm hose barb		
Relief valve	High volume set at 440 kPa		
Flow rate	kPa	m <sup>3</sup> /hr	L/min
Note: Indicative only and based on flow recorded in air through the non-return valve at the outlet. For CO <sub>2</sub> x 0.808.	100	4.4	73
	350	15.88	265



RI1RCD04



Meets AS 4267

### SINGLE STAGE Cylinder Mount

#### SPECIFICATIONS

#### RI1RCD03

#### RI1RCD04

#### RI1RNI04

Gas service	CO <sub>2</sub>	CO <sub>2</sub>	Nitrogen
Inlet configuration	Rear entry		
Max. working pressure	20,000 kPa		
Delivery pressure	0 - 400 kPa		
Inlet connection	Type 30 stem & handwheel		
Outlet connection	Ball valve, non-return valve & 6-12 mm hose barb		
Relief valve	High volume set at 440 kPa (vent connection)		
Flow rate	kPa	m <sup>3</sup> /hr	L/min
Note: Indicative only and based on flow recorded in air through the non-return valve at the outlet. For CO <sub>2</sub> x 0.808.	100	2.5	42
	350	7.5	125




# Beverage

## Draught Beer Products



RG2SCD4HS



Meets AS 4267


### TWO STAGE

#### Cylinder Mount

SPECIFICATIONS	RG2SCD4HS	RG2SNI4HS	
Gas service	Carbon Dioxide	Nitrogen	
Inlet configuration	Side entry		
Max. working pressure	20,000 kPa		
Delivery pressure	0 - 400 kPa		
Inlet connection	Type 30 stem & handwheel	Type 50 stem & handwheel	
Outlet connection	5/8-18 UNF-RH with nut & 6 & 8 mm hose barbs		
Relief valve	High volume set at 440 kPa		
Flow rate	kPa	m³/hr	L/min
Note: Indicative only and based on flow recorded in air through the non-return valve at the outlet. For CO <sub>2</sub> x 0.808.	100	6	100
	350	19.5	325



RG2SCD4HSP



Meets AS 4267

### TWO STAGE

#### Wall Mount

SPECIFICATIONS	RGC2SCD4HSP	RGC2SNI4HSP	
Gas service	Carbon Dioxide	Nitrogen	
Max. working pressure	20,000 kPa		
Delivery pressure	0 - 400 kPa		
Inlet connection	Type 30 stem & handwheel	Type 50 stem & handwheel	
Outlet connection	5/8-18 UNF-RH with nut & 6 & 8 mm hose barbs		
Relief valve	High volume set at 440 kPa		
Flow rate	kPa	m³/hr	L/min
Note: Indicative only and based on flow recorded in air through the non-return valve at the outlet. For CO <sub>2</sub> x 0.808.	100	6	100
	350	19.5	325



# Beverage

## Post Mix/Post Mix & Beer Combinations



RI1S8



Meets AS 4267

### SINGLE POST MIX OR BEER

SPECIFICATIONS	RI1S8	RI1S3	RI1SNI8
Gas service	Carbon Dioxide		Nitrogen
Inlet configuration	Side entry		
Max. working pressure	20,000 kPa		
Delivery pressure	0 - 800 kPa	0 - 300 kPa	0 - 800 kPa
Inlet connection	Type 30 stem & handwheel / Type 50		
Outlet connection	6 - 12 mm Hose barb		
Relief valve	880 kPa	330 kPa	880 kPa
Flow rate	<b>kPa</b>	<b>m³/hr</b>	<b>L/min</b>
<i>Note: Indicative only and based on flow recorded in air through the non-return valve at the outlet. For CO<sub>2</sub> x 0.808.</i>			
	100	2.5	42
	350	7.5	125



RI1T8



Meets AS 4267

### TWIN POST MIX OR POST MIX/BEER COMBINATION

SPECIFICATIONS	RI1T3	RI1T8	RI1S8S3
Gas service	Carbon Dioxide		
Inlet configuration	Side entry		
Max. working pressure	20,000 kPa		
Delivery pressure	300 kPa	800 kPa	800/300 kPa
Inlet connection	Type 30 stem & handwheel		
Outlet connection	6 - 12 mm Hose barb		
Relief valve	330 kPa	880 kPa	880 & 330 kPa
Flow rate	<b>kPa</b>	<b>m³/hr</b>	<b>L/min</b>
<i>Note: Indicative only and based on flow recorded in air through the non-return valve at the outlet. For CO<sub>2</sub> x 0.808.</i>			
	100	2.5	42
	350	7.5	125

*Note: Also available as panel mount*



# Beverage

## Post Mix/Post Mix & Beer Combinations



**i** Meets AS 4267

### TRIPLE POST MIX/BEER COMBINATIONS

This regulator provides various combination possibilities for beer and post mix applications off the one unit.

Eg. RI1T8S3 for two post mix and one beer.

SPECIFICATIONS		VARIOUS PART NUMBERS		
Max. working pressure	20,000 kPa			
Delivery pressure				
Post mix	0 - 800 kPa			
Beer	0 - 300 kPa			
Inlet connection	Type 30 stem & handwheel			
Outlet connection	6 - 12 mm Hose barb			
Relief valve				
Post mix	Set at 880 kPa			
Beer	Set at 330 kPa			
Flow rate	kPa	m³/hr	L/min	
Note: Indicative only and based on flow recorded in air through the non-return valve at the outlet. For CO <sub>2</sub> x 0.808.	100	2.5	42	
	350	7.5	125	

*Note: Also available as panel mount*



**i** Meets AS 4267

### WINE DISPENSE

#### Two Stage

SPECIFICATIONS		RIM2NI05		
Gas service	Nitrogen			
Inlet configuration	Bottom entry			
Max. working pressure	20,000 kPa			
Delivery pressure	0 - 30 kPa			
Inlet connection	M10 x 1 with Type 50 stem & nut supplied			
Outlet connection	5/16" push fit			
Relief valve	Set at 880 kPa & 40 kPa			
Flow rate	kPa	m³/hr	L/min	
<i>Note: Indicative only and based on flow recorded in air through the non-return valve at the outlet. For CO<sub>2</sub> x 0.808.</i>				
	30	1	16.7	



# Beverage

## For Disposable Gas Cylinders



### WINE DISPENSE

#### Two Stage

SPECIFICATIONS	RIM2NIM10V4
Gas service	Nitrogen
Inlet configuration	Rear entry
Max. working pressure	20,000 kPa
Delivery pressure	0 - 30 kPa
Inlet connection	M10 x 1
Outlet connection	5/16" push fit
Relief valve	Set at 880 kPa & 40 kPa



### SINGLE STAGE

#### Two Gauge

SPECIFICATIONS	RIMCD4M10
Gas service	Carbon Dioxide
Max. working pressure	13,000 kPa
Delivery pressure	0 - 400 kPa
Inlet connection	M10 x 1
Outlet connection	5/16" push fit
Relief valve	Set at 440 kPa



### SINGLE STAGE

#### One Gauge

SPECIFICATIONS	RIMCD4P	RIMCD6
Gas service	Carbon Dioxide	Carbon Dioxide
Max. working pressure	13,000 kPa	13,000 kPa
Delivery pressure	0 - 400 kPa	0 - 600 kPa
Inlet connection	M10 x 1	M10 x 1
Outlet connection	1/4" push fit	1/4" push fit
Relief valve	Set at 440 kPa	Set at 660 kPa



# For Disposable Gas Cylinders

## Regulators



### MICRO REGULATOR

SPECIFICATIONS	OTMRIGP5
Gas service	Inert Gas
Max. working pressure	13,000 kPa
Delivery pressure	0 - 10 L/min
Inlet connection	M10 x 1
Outlet connection	5/8-18 UNF-RH Male



### NITROGEN REGULATOR

#### FEATURES

- Outlet pressure gauge
- Cylinder contents gauge
- Adjustable pressure
- Suitable for nitrogen and leakxpose® disposable cylinders

SPECIFICATIONS	RG1MNI15
Maximum inlet pressure ( $p_1$ )	15,000 kPa
Maximum outlet pressure ( $p_2$ )	1,500 kPa
Inlet type	M10 x 1
Outlet type	1/4" SAE flare
Pressure gauge	2
Pressure	0 - 1,500 kPa



### NITROGEN REGULATOR

A small, very high outlet pressure regulator designed for use with disposable cylinders containing nitrogen or nitrogen / hydrogen mixtures (LeakXpose®). It is used for the convenient, high pressure testing of air conditioning and refrigeration systems. Used with LeakXpose®, it can be used for leak detection in domestic, commercial and automotive air conditioning systems, or refrigeration systems. Combined with disposable gas cylinders it is especially suited to on site testing and leak detection.

SPECIFICATIONS	RI1SNI60M10
Flow rate	50 m³/hr
Inlet configuration	Side
Maximum inlet pressure ( $p_1$ )	14,500 kPa
Maximum outlet pressure ( $p_2$ )	6,000 kPa
Inlet connection	M10 x 1
Outlet connection	1/4 SAE Flare RH



Carbon dioxide delivery systems are designed for Hydroponic installations, where the introduction of regular amounts of CO<sub>2</sub> gas enhance the plants growth. The systems comprise of a regulator, a solenoid valve (with 240 volt connection). Simply plug into a timer set for your delivery intervals, set the L/min of gas required and every time the timer activates a measured supply of gas is delivered into the enclosure.



## MICRO HYDROPONIC REGULATOR

For disposable CO<sub>2</sub> cylinders

SPECIFICATIONS	OTMRIGP5SV
Gas service	CO <sub>2</sub>
Max. working pressure ( <i>p1</i> )	13,000 kPa
Delivery pressure	0 - 10 L/min
Inlet connection	M 10 x 1
Outlet connection	5/8-18 UNF-RH Male
Solenoid valve	230 V / 50 Hz
Timer	Not included



## HYDROPONIC REGULATORS

For type 30 re-fillable CO<sub>2</sub> cylinders

SPECIFICATIONS	RC1SCDFGSV	RC1SCDFMSV
Gas service	CO <sub>2</sub>	CO <sub>2</sub>
Max. working pressure ( <i>p1</i> )	20,000 kPa	20,000 kPa
Delivery pressure	0 - 35 L/min	0 - 25 L/min
Inlet connection	Type 30	Type 30
Outlet connection	5/8-18 UNF-RH Male	5/8-18 UNF-RH Male
Solenoid valve	230 V / 50 Hz	230 V / 50 Hz
Timer	Not included	Not included



# Scientific

## Single Stage



GR1CAN

SPECIFICATIONS	GR1CAN	GR1SAN
Flow rate	20 m³/hr	
Purity	6.0 (99.9999%)	
Max. inlet pressure ( $p_1$ )	20,000 kPa	
Max. outlet pressure ( $p_2$ )	170 kPa	
Materials		
Body	Chrome plated brass	Stainless steel

Regulators can be fitted with various inlets to suit gas type various outlets available to suit application.



GR1CBO

SPECIFICATIONS	GR1CBO	GR1SBO
Flow rate	70 m³/hr	
Purity	6.0 (99.9999%)	
Max. inlet pressure ( $p_1$ )	30,000 kPa	
Max. outlet pressure ( $p_2$ )	680 kPa	
Materials		
Body	Chrome plated brass	Stainless steel

Regulators can be fitted with various inlets to suit gas type various outlets available to suit application.



GR1CBP

SPECIFICATIONS	GR1CBP	GR1SBP
Flow rate	100 m³/hr	
Purity	6.0 (99.9999%)	
Max. inlet pressure ( $p_1$ )	30,000 kPa	
Max. outlet pressure ( $p_2$ )	1,700 kPa	
Materials		
Body	Chrome plated brass	Stainless steel

Regulators can be fitted with various inlets to suit gas type various outlets available to suit application.





GR1CBR

SPECIFICATIONS	GR1CBR	GR1SBR
Flow rate	100 m <sup>3</sup> /hr	
Purity	6.0 (99.9999%)	
Max. inlet pressure ( $p_1$ )	30,000 kPa	
Max. outlet pressure ( $p_2$ )	3,440 kPa	
Materials		
Body	Chrome plated brass	Stainless steel

Regulators can be fitted with various inlets to suit gas type various outlets available to suit application.



SPECIFICATIONS	GR1SCQ
Flow rate	80 m <sup>3</sup> /hr
Purity	6.0 (99.9999%)
Max. inlet pressure ( $p_1$ )	40,000 kPa
Max. outlet pressure ( $p_2$ )	20,000 kPa
Materials	
Body	Stainless steel

Regulators can be fitted with various inlets to suit gas type various outlets available to suit application.



GPSB

EXAMPLE

### PROTOCOL STATIONS

The protocol station is a small high pressure distribution block that allows the regulator to be mounted on a wall or bench and is suitable for both single and dual-stage regulators. The protocol station is an inexpensive, versatile piece of equipment which improves safety, convenience, organisation and is available in chrome plated brass or stainless steel.

SPECIFICATIONS	GPSB	GPSS
Connection		
Inlet	1/4" NPT Female	
Outlet	1/4" NPT Female	
Purity	6.0 (99.9999%)	
Materials		
Body	Chrome plated brass	Stainless steel

Regulators can be fitted with various inlets to suit gas type various outlets available to suit application, including purge valve.



# Scientific

## Dual Stage



GR2CBN

SPECIFICATIONS	GR2CBN	GR2SBN
Flow rate	10 m³/hr	
Purity	6.0 (99.9999%)	
Max. inlet pressure ( $p_1$ )	30,000 kPa	
Max. outlet pressure ( $p_2$ )	170 kPa	
Materials		
Body	Chrome plated brass	Stainless steel

Regulators can be fitted with various inlets to suit gas type various outlets available to suit application.



GR2CBO

SPECIFICATIONS	GR2CBO	GR2SBO
Flow rate	20 m³/hr	
Purity	6.0 (99.9999%)	
Max. inlet pressure ( $p_1$ )	30,000 kPa	
Max. outlet pressure ( $p_2$ )	680 kPa	
Materials		
Body	Chrome plated brass	Stainless steel

Regulators can be fitted with various inlets to suit gas type various outlets available to suit application.



GR2CBP

SPECIFICATIONS	GR2CBP	GR2SBP
Flow rate	25 m³/hr	
Purity	6.0 (99.9999%)	
Max. inlet pressure ( $p_1$ )	30,000 kPa	
Max. outlet pressure ( $p_2$ )	1,700 kPa	
Materials		
Body	Chrome plated brass	Stainless steel

Regulators can be fitted with various inlets to suit gas type various outlets available to suit application.





### BENCH MOUNT

Bench mount regulators are designed for central gas systems where control is needed at the application point. The units are bottom entry with a column for mounting flush to a bench surface. They feature an isolation valve, adjustable pressure and easy to read 50 mm pressure gauges.

SPECIFICATIONS	GOLBC3410
Flow rate	95 L/min
Gas service	Non-corrosive gases
Inlet connection	1/4" NPT Male
Outlet connection	1/4" NPT Female
Delivery pressure	Max. 1,000 kPa
Purity	6.0 (99.9999%)
Country of origin	China



### SURFACE MOUNTED

Surface mount regulators are designed for central gas systems where control is needed at the application point. The units have a wall mounting block with a side entry to allow for pipework that is mounted flush to the wall surface. They feature an isolation valve, adjustable pressure and easy to read 50 mm pressure gauges.

SPECIFICATIONS	GOLSC3410
Flow rate	95 L/min
Max. inlet pressure ( $p_1$ )	3,400 kPa
Max. outlet pressure ( $p_2$ )	1,000 kPa



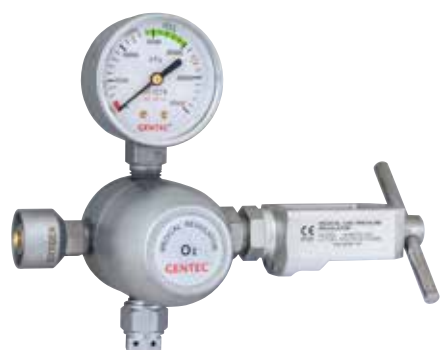
### WALL MOUNTED

Wall mount regulators are designed for central gas systems where control is needed at the application point. The units are rear entry for mounting flush to the wall surface where pipework is mounted within the wall or fed through the wall. They feature an isolation valve, adjustable pressure and easy to read 50 mm pressure gauges.

SPECIFICATIONS	GOLWC3410
Flow rate	95 L/min
Max. inlet pressure ( $p_1$ )	3,400 kPa
Max. outlet pressure ( $p_2$ )	1,000 kPa



# Medical Standard



197M-870-YSC



197M-950-YSC



197M-910-YSC



197M-940-YSC



197M-965-YSC

## STANDARD

The 197M regulators are fabricated of high-quality brass and have a Matte Chrome body. Key features include, adjustable yoke system, easy to read pressure gauge made to AS 4706, Self-Sealing outlet makes sure no gas will flow until the flowmeter is connected. Pin index yoke 'T' screw includes a clip to prevent it from being removed completely. Regulator comes with a manual and a one year warranty against manufacturers defect. The 197M Regulators are listed on the Australian Register of Therapeutic Goods (ARTG).

SPECIFICATIONS	197M-870-YSC	197M-950-YSC	197M-910-YSC	197M-940-YSC	197M-965-YSC
Gas service	Medical oxygen	Medical air	Nitrous oxide	Carbon dioxide	50/50 Oxy/nitrous oxide
Set pressure	400 kPa	400 kPa	400 kPa	400 kPa	400 kPa
Q1 Valve	130 L/min	130 L/min	130 L/min	130 L/min	130 L/min
Max. flow	300 L/min	300 L/min	300 L/min	300 L/min	300 L/min



Meets AS 3840.1





286MB-15LYA

**VARIABLE CLICK STYLE THERAPY REGULATORS**

These click flow regulators are manufactured with a chrome plated brass body, with brass chamber. These Regulators are listed on the Australian Register of Therapeutic Goods, comply with all relevant Australian Standards\*, and have passed the oxygen flammability test.

*\*Note: Flow tolerances required by AS 3840 are such that at 1/32 and 1/16 Lpm the tolerances are lower than the repeatability achievable between different test equipment or operators.*

SPECIFICATIONS	286MB-4LYA	286MB-8LYA	286MB-15LYA	286MB-25LYA
Gas service	Medical oxygen	Medical oxygen	Medical oxygen	Medical oxygen
Max. inlet pressure ( $p_i$ )	3000 psi	3000 psi	3000 psi	3000 psi
Set pressure	400 kPa	400 kPa	400 kPa	400 kPa
Flowrate	4 L/min	8 L/min	15 L/min	25 L/min
Flow selection settings	0, 1/32, 1/16, 1/8, 1/4, 0.50, 0.75, 1, 1.5, 2, 3, 4 L/min	0, 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 7, 8 L/min	0, 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 10, 15 L/min	0, 0.5, 1, 2, 3, 4, 5, 6, 8, 10, 15, 25 L/min
Outlet	1 x hosebarb (flow controlled)	1 x hosebarb (flow controlled)	1 x hosebarb (flow controlled)	1 x hosebarb (flow controlled)

Meets AS 3840.1



SPECIFICATIONS	286MB-25LY2A
Gas service	Medical oxygen
Max. inlet pressure ( $p_i$ )	3000 psi
Set pressure	400 kPa
Flowrate	8 L/min
Flow selection settings	0, 0.5, 1, 2, 3, 4, 5, 6, 8, 10, 15, 25 L/min
Outlet	1 x hosebarb (flow controlled) 2 SIS outlets (full flow)



# Medical Flowmeters



### SPECIFICATIONS

### FM197BS-15L-SISR

Gas service	Medical oxygen
Full scale	15 L/min
Max. flowrate	Restricted to 16 - 18 L/min
Outlet fitting	1/4" BSP male
Calibration pressure	400 kPa
Safety relief valve	Built in
Hose barb	Supplied
User manual	Supplied
Warranty	5 Years (manufacturers defect)



Meets Australian Standards



FM187BS-15L-SISR

### SPECIFICATIONS

### FM187BS-15L-SISR

### FM187BS-15L-SISR

Gas service	Medical air	
Full scale	Unrestricted	Restricted to 16 - 18 L/min
Max. flowrate	15 L/min	
Outlet fitting	1/4" BSP male	
Calibration pressure	400 kPa	
Safety relief valve	Built in	
Hose barb	Supplied	
User manual	Supplied	
Warranty	5 Years (manufacturers defect)	



Meets Australian Standards



### CLICK STYLE FLOWMETER

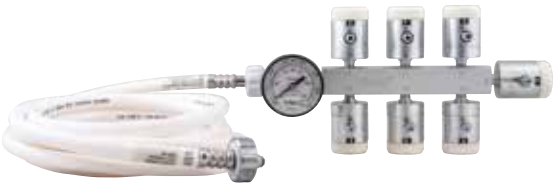
The CFM Series Flowmeters are a compact click adjustable flowmeter with an aluminium casing. The outlet is 1/4" BSP with a standard hose nipple with gas specific colouring. The units are TGA Listed.

### SPECIFICATIONS

### CFM-15L-SIS

Gas service	Medical oxygen
Calibration	50 psi
Outlet fitting	1/4" BSP male
Flow rate settings	0, 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 10 & 15 L/min





### OXYGEN SUPPLY MANIFOLD

The DST Oxygen Supply Manifold is designed for EMS and mass casualty situations where multiple patients require oxygen simultaneously. The unit can be connected to wall outlets, or cylinders for portability and provide consistent pressure with individually selectable flow rates. The unit is available in 5, 7 or 9 flowmeter models. The supply hose provided is 3m but can be varied to customer requirements.

The units are manufactured according to CE requirements and are compliant to EN 13220.

PART NO
DST-7-15L



FM293-1L-X-SIS

SPECIFICATIONS	FM293-1L-X-SIS	FM293-200-X-SIS	FM293-3L-X-SIS	FM293-75L-X-SIS	FM293-75L-Q-SIS
Gas service	Medical oxygen	Medical oxygen	Medical oxygen	Medical oxygen	Medical air
Full scale	1 Lpm	200 cc/min	3 Lpm	75 Lpm	75 Lpm
Max. flowrate	5 - 10 Lpm	500 cc/min	20 - 50 Lpm	70 - 100 Lpm	70 - 100 Lpm
Calibration pressure	400 kPa	400 kPa	400 kPa	400 kPa	400 kPa
Inlet connection	Sleeve Index System (SIS) as per AS 2902 – 2005				
Outlet connection	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"
Hose barb	Supplied				
User manual	Supplied				
Warranty	5 Year limited warranty				



# Accessories



## REGULATOR OUTLET ADAPTOR

There are applications that require a 90 degree adaptor on the outlet of the regulator. These ones are small and made from solid brass for left hand and right hand threads.

SPECIFICATIONS	G-AD90LH58	G-AD90RH58
Inlet connection	5/8-18 UNF-RH Female	
Outlet connection	5/8-18 UNF-RH Male	



## BLANKING PLUGS

When not in use, it is good practice to have blanking plugs on the outlets of regulators and regulated outlet points. This stops the ingress of dirt and insects and stops gas leaks if they are accidentally turned on. They also protect the thread from damage during transport.

PART NO
W-PLUG58LH
W-PLUG58RH



## GAUGE PROTECTOR

Gauge protectors are available to fit to the 50 mm diameter pressure gauges. They help protect the pressure gauge from minor knocks and impacts when in use and being transported.

SPECIFICATIONS	SPRGPB	SPRGPBL	SPRGPR
Colour	Black	Blue	Red



## GAUGE PROTECTOR

To suit RI1SNI60 Regulator

SPECIFICATIONS	SPRGP63BL
Size	63 mm
Colour	Blue



# Accessories



## GAS PRE-HEATERS

The heaters are suitable for pressures up to 200 bar (20,000 kPa). The media flowing through the system are evenly warmed through an automatic temperature control, so that an uninterrupted flow - even when in constant use - is provided. There are two mounting options available. One has type 30 connections and can be mounted between the cylinder and the regulator, or on a wall mounted manifold arrangement, between the manifold and regulator. Gas warmers should be situated under cover as the units are weather proof but not waterproof. It is recommended that the power is disconnected when the system is out of use for long periods as the gas heater can overheat the gas. When the system is not being used the cylinder valve should be shut and the gas pressure released from the system.

SPECIFICATIONS	GH19030
Inlet connection	Type 30 stem and nut
Outlet connection	Type 30 Male



SPR010B



SPR050



SPR030R

## O-RINGS

Sold in packs of 10

SPECIFICATIONS	SPR010B	SPR050	SPR030R
Regulator range	RC for Type 10, 20, 21	RC for Type 50, 60	RI for Type 30

## MEDICAL ACCESSORIES



### KEY WRENCH

For medical cylinder

#### PART NO

G123029007



### BODOK SEALS

Gentec Bodok Seals are a specialised washer that allow for a gas tight seal between the regulators yoke and a gas cylinder.

SPECIFICATIONS	G204662010
Colour	Blue



## HOSE BARBS

Tesuco® hose barbs are designed to compliment their flowmeter counterparts. White hose barbs are suitable for oxygen flowmeters, while our black hose barbs are for air flowmeters.

SPECIFICATIONS	G204302400	G204302404
Gas service	Medical oxygen	Medical air
Colour	White	Black



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Bevline®

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Phone +61 2 9737 9937  
Email [sales@tesuco.com.au](mailto:sales@tesuco.com.au)  
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