BRACTON

BEVERAGE
BREWERY RANGE

bracton.com

BRACTON

Bracton is Australia's leading wholesale importer and manufacturer of beverage dispense equipment and specialty hospitality chemicals. For over 40 years Bracton has provided products and a dedicated service to the Australian hospitality industry and is trusted by thousands of venues nationwide.

The Bracton group is Australian owned and operated business. Today, as a trusted and respected name in the hospitality industry, we operate two core businesses manufacturing and supplying chemicals and equipment, as well as two others in allied industries. In over 40 years of business, our goal has always been to consistently develop innovative products for a range of applications and industries.

BEVERAGE
BREWERY RANGE

Bracton in partnership with Tesuco®, has designed a large range of beverage solutions to suit all beer, soft drink, carbonated water and wine dispense applications.
We also have developed a range of CO_2 gas equipment for brewing with gas supply systems to suit bright tanks, fermentation tanks, brewing, canning/bottling and dispense for craft and mini brewing.

Refillable cylinder regulators used in our beverage systems meet the requirements of AS 4267 if a high inlet pressure regulator or AS 4840 if a low inlet pressure regulator as in the case of the secondary regulators on the beer board systems, or pipeline "Point of Use". Where needed they have non-return valves fitted to the outlets and come with 6mm or 10mm hose barbs (both sizes in some cases) or 6 –12mm barbs to suit various hose diameters.

Regulator systems for refillable cylinders or bulk supply also meet the exacting requirements of AS 5034 "Installation and use of Inert Gases for beverage dispensing".

Refillable cylinder regulator systems are fitted with high volume relief valves as required by AS 5034. These are capable of venting high pressure in the event of a regulator failure, so that low pressure equipment fitted downstream cannot be subjected to more than 1.25 times the maximum working pressure. All relief valves are fitted with John Guest outlets so that they can be vented to safe areas if installed in non-naturally ventilated areas.

High pressure connection leads are manufactured from food grade virgin PTFE liners with double braided stainless steel to give durability and a Hydral cover to give protection. All leads are supplied with an anti-whip cable as required by AS 5034.

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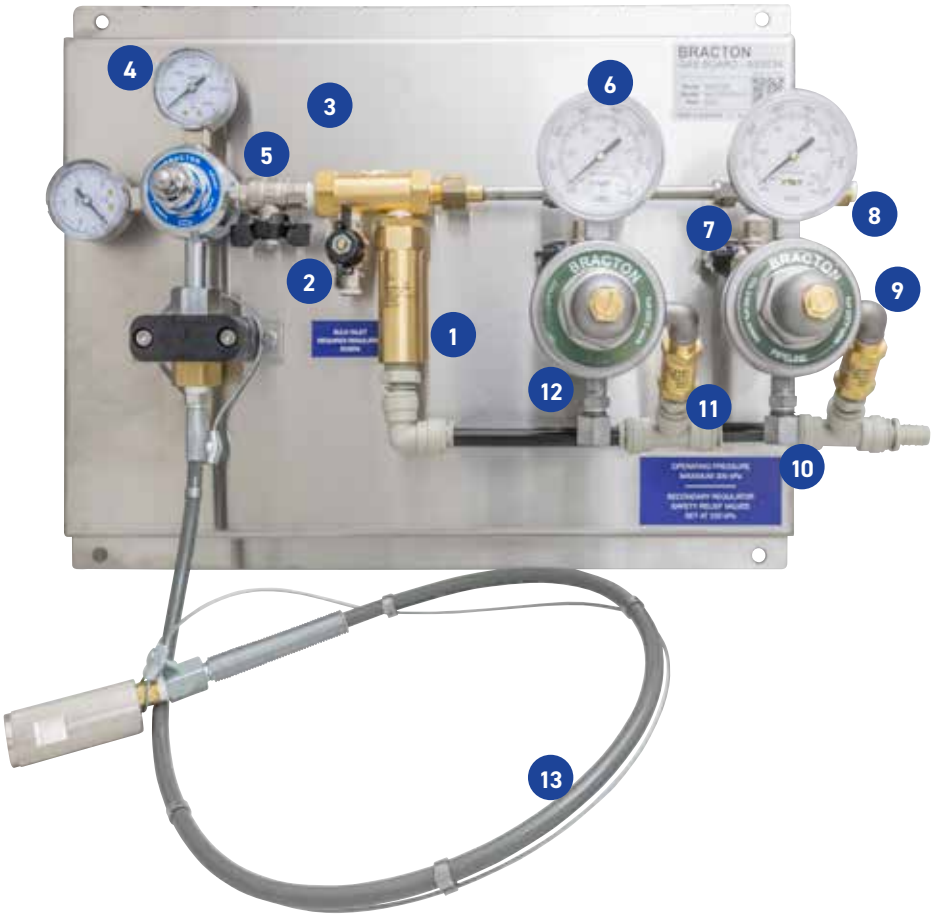
FEATURES & COMPLIANCE

TO STANDARDS OF THE BRACTON BEER BOARD



1	Safety Relief Valve (Slimline)	To vent full cylinder pressure to meet AS 5034 and AS 1271-3
2	Isolation Valve	For bulk supply
3	Backing Panel	Stainless steel
4	Primary Regulator	To AS 4267
5	Line Isolation Valve	To AS 5034
6	Secondary Regulator	To AS 4840, high flow, high performance
7	Isolation Valves	On each line to AS 5034
8	Stainless Steel Connection Manifold	To meet pressure requirement of 2,400kPa and eliminate leaks
9	Connection Blocks	0.875-14 UNF RH to AS 5034 as nominated in AS 4840 make replacement easy
10	Easy Connect Vent Manifold	For SRV's
11	Safety Relief Valve (Mini)	To vent line pressure up to 2,400kPa on each regulator to AS 5034 and AS 1271-3
12	Non-Return Valves	On each line to AS 5034
13	Connection Lead	With restraint wire and soft seal handwheel connection to cylinder

HEATED REGULATOR SYSTEMS

CO_2 REGULATOR WITH BUILT IN HEATER
CYLINDER MOUNTED

Gentec Combination regulator and heater is engineered to meet the high flow demands in brewing applications. It features a high flow thermostatically controlled heater, connected to a high flow regulator with cylinder pressure and delivery pressure gauges Type 30 Inlet connection and 1/2" outlet.

SPECIFICATIONS	RG1SHR	
Maximum working pressure	20,000kPa	
Delivery pressure	0 – 1,300kPa	
Inlet connection	Type 30 stem & handwheel	
Outlet connection	G 1/2" RH Male	
Weight	4.4kg	
Flow rate Note: flowrate @ 15°C	m^3/hr	L/min
	50	830

CO_2 REGULATOR WITH BUILT IN HEATER
WALL MOUNTED

Gentec Combination regulator and heater is engineered to meet the high flow demands in brewing applications. It features a high flow thermostatically controlled heater, connected to a high flow regulator with cylinder pressure and delivery pressure gauges.

Mounted on a stainless steel bracket with 1/2" compression fitting inlet and a 10mm hose barb outlet.

SPECIFICATIONS	RG1SHR-B	
Maximum working pressure	20,000kPa	
Delivery pressure	0 - 1,300kPa	
Inlet connection	1/2" Compression Fitting	
Outlet connection	3/8" RH with nut and 10mm hose barb	
Relief valve	High volume set at 1300kPa	
Flow rate Note: flowrate @ 15°C	m^3/hr	L/min
	50	830

Meets AS 5034 requirements

WALL MOUNTED REGULATOR BOARDS

DRAUGHT BEER PRODUCTS

CO_2 GAS BEER BOARDS

Meets AS 5034 requirements

Bracton Beer distribution boards are specifically engineered to meet and exceed AS 5034. They feature a primary regulator (fully plated inside with stainless steel seat to prevent corrosion), with isolation valve, bulk inlet valve and high volume relief valve. The high pressure lead has an anti-whip cable and a soft seal hand wheel connection. The manifold is stainless steel and has a pressure rating far higher than the 2,400kPa required by the standard. Secondary regulators have an isolation valve, relief valve and a non-return valve on each outlet. Safety relief valves are vented to meet AS 5034. Both 6 & 10 mm hose barbs are supplied to suit different supply hose sizes.

SPECIFICATIONS			
Maximum working pressure	**20,000kPa**		
Delivery pressure Primary Secondary	 **0 – 1,000kPa** **0 – 300kPa**		
Inlet CO_2	 **Type 30 stem and handwheel**		
Outlet	**5/8-18 UNF RH with nut and 6mm & 10mm hose barbs**		
Relief valve Primary Secondary	 **Set at 1,300kPa** **Set at 330kPa**		
Flow rate (Secondary) Indicative only and based on flow recorded in air through the non-return valve at the outlet. For CO_2 x 0.808.	**kPa** **100** **350**	**m³/hr** **4.4** **15.88**	**L/min** **73** **265**

TEP2SHV3

TE3SHV3

PART NO	DESCRIPTION
TEP1SHV3	One primary, one secondary regulator
TEP2SHV3	One primary, two secondary regulators
TEP3SHV3	One primary, three secondary regulators
TEP4SHV3	One primary, four secondary regulators

PART NO	DESCRIPTION
TE1SHV3	One secondary regulator only beer board
TE2SHV3	Two secondary regulators only beer board
TE3SHV3	Three secondary regulators only beer board
TE4SHV3	Four secondary regulators only beer board

POINT OF USE COMBINATIONS

Meets AS 5034 requirements

POINT OF USE REGULATOR SYSTEM
BRACKET MOUNTED

Oxyturbo point of use regulator for brewery applications where individual pressure is required. Suitable for fermentation, tanks and dispense application. Each outlet has an isolation valve, a non-return valve and a large volume relief valve which are vented for use in non-naturally ventilated areas.

SPECIFICATIONS	RI1S3BB		
Maximum working pressure	20,000kPa		
Delivery pressure	300kPa		
Inlet	6 –12mm hose barb		
Outlet	6 –12mm hose barb		
Relief valve	Set at 330kPa		
Flow rate Indicative only and based on flow recorded in air through the non-return valve at the outlet. For CO_2 x 0.808.	kPa	m^3/hr	L/min
	100	2.5	42
	350	7.5	125

Meets AS 5034 requirements

HIGH FLOW POINT OF USE REGULATOR SYSTEM
BRACKET MOUNTED

Tesuco® High Flow point of use regulator for brewery applications where extra flow is required for the application. Suitable for use fast filling of bright tanks, bottling and dispense applications. Each outlet has an isolation valve, a non-return valve and a large volume relief valve which are vented for use in non-naturally ventilated areas.

SPECIFICATIONS	RTOPCD10	
Maximum working pressure	2,500kPa	
Delivery pressure	0 – 1,000kPa	
Inlet	1/2" Compressing fitting	
Outlet	6 –12mm hose barb	
Relief valve	Set at 880kPa	
Flow rate Indicative only and based on flow recorded in air through the non-return valve at the outlet. For CO_2 x 0.808.	m^3/hr	L/min
	49.7	828

OTHER REGULATORS

OXYGEN FERMENTATION REGULATOR

Gentec "click style" 0 –15L/min regulator is ideal for introducing oxygen at a measured at a measured, controlled rate into the fermentation process. The regulator is "Medical" grade and high purity.

Fitted with a type 10 inlet for standard oxygen cylinders and a hose barb outlet, various flow settings can be selected by the click dial and the flow shown in the view window.

SPECIFICATIONS	284MA1502
Gas service	**Oxygen**
Maximum working pressure	**20,000kPa**
Delivery	**0–15L/min**
Inlet connection	**Type 10**
Outlet connection	**5mm Hose barb**

NITROGEN REGULATOR
FOOD GRADE

SPECIFICATIONS	RI1RNI04		
Maximum working pressure	**20,000kPa**		
Delivery pressure	**0 – 400kPa**		
Inlet connection	**Type 50**		
Outlet connection	**6 – 12mm Hose barb**		
Relief valve	**440kPa**		
	kPa	m³/hr	L/min
Flow rate	**100**	**2.5**	**42**
	350	**7.5**	**125**

D3RE2

DOSATRON WATER LINE

The Dosatron Water Line combined with a caustic and chlorinated concentrate is a convenient solution for clearing unwanted beer stone, mold, bacteria and yeast build-up in your beer lines. Amongst the several configurations, the Dosatron can be easily installed in-line or mobilised when mounted to a trolley. The Water Line range is safe to use in the Food and Beverage industry and has NSF certification for quality assurance.

FEATURES

- Operates with water pressure – Non-electric
- Developed for alkaline or acidic additives
- Extremely easy to install, operate and maintain - plug & play
- Reliable and consistent – Optimised for efficient water and chemical consumption

ACCESSORIES

TWIN INLET CYLINDER MANIFOLD

Gentec twin inlet cylinder manifold assembly is available to convert the single inlet on a beer or post mix board to two cylinders. The assembly has isolation and non-return valves as required by AS 5034. Once fitted it allows for one cylinder to be "IN USE" and one to be in "RESERVE". The "OPEN" and "CLOSE" windows on the valves indicate the status.

SPECIFICATIONS	TEPTIO
Maximum working pressure	20,000 kPa
Lead length	1,000 mm
Inlet connection	Type 30 handwheel
Outlet connection	Type 30 Male

GAS HEATERS

Gas heaters are used with CO^2 in beverage applications where venues require high flows for dispensing beer and soft drinks without the regulators freezing. Two different models are available to suit different applications. They are thermostatically controlled and are available in two different configurations.

SPECIFICATIONS	GH19030	GH19014B	GH900	GVW500-INOX
Materials of construction Body Cover		Plated Brass Powder coated milk steel		Brass Plastic
Gas service		Inert Gas		Oxygen / Inert Gas
Flow rate	10 m^3/hr @ 15°C	10 m^3/hr @ 15°C	50 m^3/hr @ 15°C	10m^3/ hr for CO_2 @ 15°C
Maximum working pressure	20,000 kPa	20,000 kPa	30,000 kPa	30,000 kPa
Operating temperature				50°C + / -3°C
Inlet	Type 30 Female	1/4" BSPT Female	1/4" NPT Female	1/4" NPT Female
Outlet	Type 30 Male	1/4" BSPT Male	1/4" NPT Female	1/4" NPT Female
Power	240 VAC	240 VAC	240 VAC	240 VAC/ 50 Hz
Capacity	100 W	100 W	900 W	500 Watt
IP Rating	IP45	IP45	IP45	IP 65

ACCESSORIES

SINGLE CHANNEL GAS ALARM

This economical Tesuco® alarm panel consists of a main unit powered by a 24 VDC power supply, a separate high visibility neon light (mounted on a panel with 6 m lead). The visual signal on the main panel indicates gas out via a red LED. The audible alarm may be muted and reset with a button. A high pressure contact pressure gauge is supplied for the regulator.

SPECIFICATIONS	AAT1100
Channels	1
Power rating	24 VAC/DC
Power consumption	Max. 2W
IP rating	IP40
Temperature range	-20°C to +50°C
Noise level (buzzer)	85 dB (A) at 10 cm
Flammability rating	UL94-HB

GAS CONTROL
LEAK DETECTION SPRAY

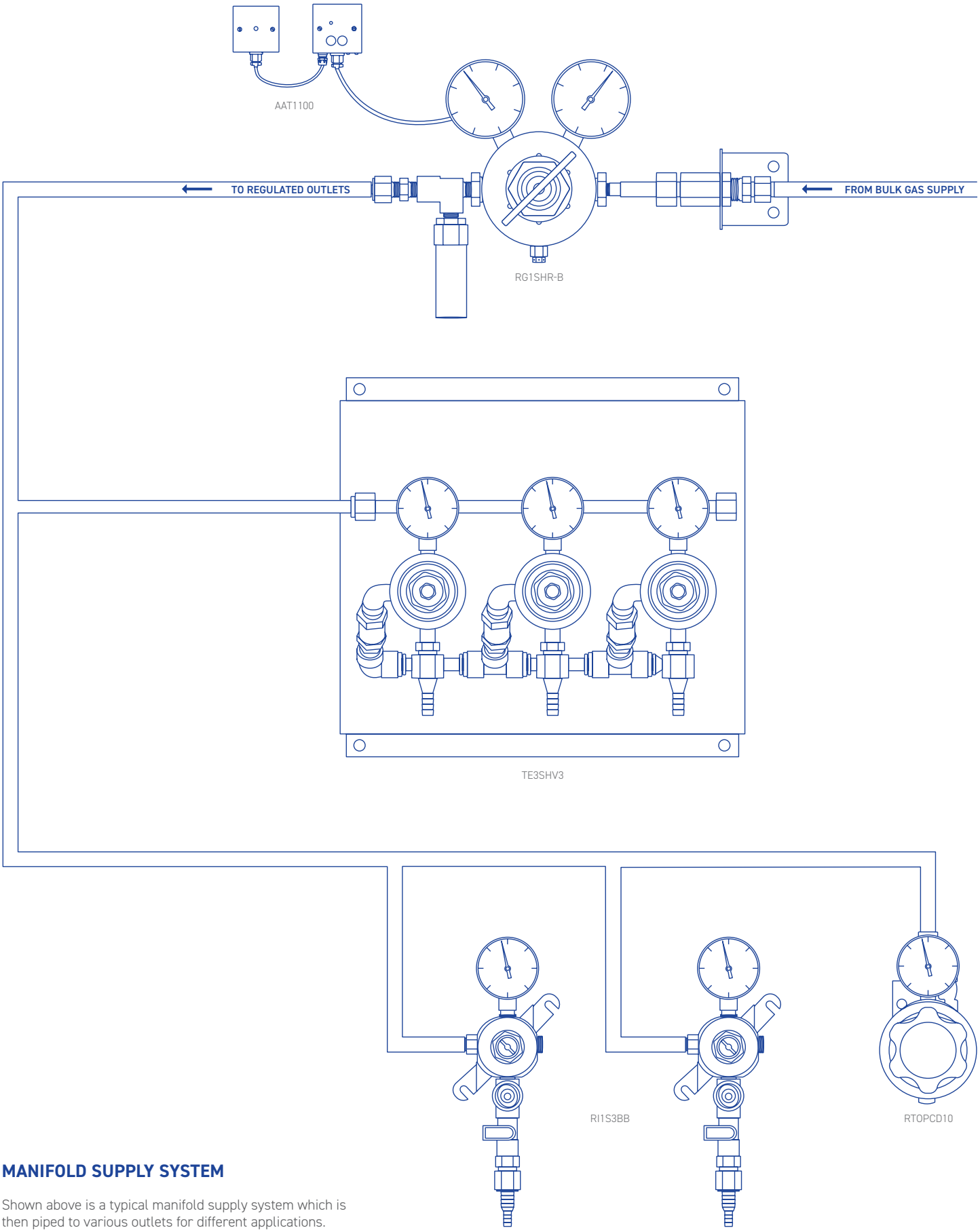
Gas Control is a technologically advanced gas leakage detection spray, designed to test the hermetic sealing of any type of gas system. The liquid has a special formulation to inhibit corrosion when used on copper, brass and steel. The liquid, when applied will detect the slightest leak, forming bubbles or foam where it occurs.

FEATURES

- Supplied in a carton of 12 that converts into an attractive point of sale display
- Aerosol with easy to use Acc-U-Sol valve
- Aluminum container
- Safety tear-off tab
- Small extension tube supplied for accurate application
- Approved by DVGW to DIN EN 14291

SPECIFICATIONS	OTLDS
Contents	400 g
Standard	DIN EN 14291
Certification	DVGW NG-5170BM0318
Classification	UN 1950, aerosols, class 2.2
Dimensions Product only Carton of 12	 (H) 215 x (Ø) 66 mm (H) 225 x (W) 270 x (D) 205 mm

FLOW CHART ON SYSTEMS



MANIFOLD SUPPLY SYSTEM

Shown above is a typical manifold supply system which is then piped to various outlets for different applications.

USEFUL CONVERSIONS & GAS CHARACTERISTICS

PRESSURE	Pa	kPa	MPa	Bar	Atm	psi
Pascal (Pa)	1	0.001	0.000001	0.00001	0.00000987	0.000145
Kilopascal (kPa)	1,000	1	0.001	0.01	0.00987	0.145
Megapascal (MPa)	1,000,000	1,000	1	10	9.8692	145
Bar	100,000	100	0.1	1	0.98692	14.5
Atmosphere	101.325	101.325	0.101325	1.01325	1	14.31034
Pounds/Inch² (psi)	6,896.6	6.8966	0.0068966	0.068966	0.069880	1

FLOW RATE	m³/hr	l/min	ft³/hr	in³/s
Cubic metre per hour (m³/hr)	1	16.67	35.31	16.95
Litre per minute (l/min)	0.06	1	2.119	1.017
Cubic foot per hour (ft³/hr)	0.02832	0.4719	1	0.48
Cubic inch per second (in³/s)	0.05899	0.9832	2.083	1

TEMPERATURE	
Degrees Celsius (°C)	Kelvin -273.15
Degrees Celsius (°C)	5/9 x (°F -32)
Degrees Fahrenheit (°F)	(9/5 x °C) +32

WITHDRAWAL RATES	
Gas type	Carbon Dioxide
Maximum draw off rate	1 kg/hr (0.53) m³/hr

IMPORTANT NOTE ON CARBON DIOXIDE WITHDRAWAL

A standard F size cylinder contains 22kg of liquid CO_2 which equates to 11.75m³ of CO_2 gas. Because of it's physical properties, chilled CO_2 expanded across cylinder valves and regulator seats and orifices can cause dry ice to form within those devices which may cause malfunction. CO_2 heaters should be used to preheat the gas in high volume applications. In addition if the maximum withdrawal rate is exceeded, liquid carbon dioxide will be withdrawn from the cylinder into the regulator, this may cause dry ice to form in the regulator which will lead to regulator malfunction and pressure spikes to occur. This can cause the safety relief valve to vent.

TESUCO
TECHNICAL SUPPLIES COMPANY

HOSPITALITY
GAS SAFETY
INDUSTRIAL
SCIENTIFIC
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GENTEC®

DOSATRON®
Because life is powered by water®

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