

Beverage

QUALITY GAS EQUIPMENT

tesuco.com.au

Our name Tesuco® comes from **Te**chnical **Su**pplies **Co**mpany.



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Scan QR code to view our complete range of gas equipment.

Beverage Equipment

Tesuco® has a large range of beverage solutions to suit all beer, soft drink, carbonated water and wine dispense applications. We also have a range of food grade disposable gas cylinders for water carbonation, wine dispense, smaller bar venues or home brew applications.

All 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. They all have non-return valves fitted to the outlets and come with 6 mm or 10 mm hose barbs (both sizes in some cases).

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".

All 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.

All 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.





Features and compliance to standards of the Tesuco[®] Bevline[®] 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
7	Isolation Valves	On each line to AS 5034
8	Stainless Steel Connection Manifold	To meet pressure requirement of 2,400 kPa 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 2,400 kPa on each regulator to AS 5034 and AS 1272-3
12	Non-Return Valves	On each line to AS 5034
13	Connection Lead	With restraint wire and soft seal handwheel connection to cylinder

Cylinder Mounted Regulator Systems

Draught Beer Products





REGULATOR

Single Stage

Single stage CO_2 regulator with features that include a high flow safety relief valve with ring pull for venting and gauge protectors.

SPECIFICATIONS

Max. working pressure	20,000 kPa			
Delivery pressure	0 - 400 kPa			
Inlet	Type 30 stem and	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	m³/hr	L/min	
Indicative only and based on flow recorded in air through the non-return valve at the outlet. For CO ₂ x 0.808.	100 350	4.4 15.88	73 265	

1	Meets AS 4267	
	Meets AS 4267	

PART NO	DESCRIPTION	
RC1SCD04R	One stage CO ₂ , Inlet 20,000 kPa, Outlet 400 kPa	



TWIN REGULATOR

Single Stage

A twin CO_2 regulator system that allows you to have two different CO_2 pressures for different beers on tap. Includes pressure release valves with ring pulls for venting and gauge protectors.

Max. working pressure	20,000 kPa			
Delivery pressure	0 – 400 kPa each regulator			
Inlet	Type 30 stem and nut			
Outlets	5 mm hose barb	nm hose barbs		
Relief valve	High volume set	at 440 kPa		
Flow rate	kPa	m³/hr	L/min	
Indicative only and based on flow recorded in air through the non-return valve at the outlet. For $CO_2 \times 0.808$.	100 350	4.4 15.88	73 265	

PART NO	DESCRIPTION	
RCTWIN04	Twin CO₂ regulators, Inlet 20,000 kPa, Outlets 400 kPa	

Cylinder Mounted Regulator Systems

Draught Beer Products





REGULATORS

Single Stage

Single stage CO_2 regulator with features that include a high flow safety relief valve, non-return valve and isolation valve on the outlet, gauge protectors and soft seal handwheel. Supplied as standard with 6 - 12 mm hose barb outlet to accommodate any hose size.

SPECIFICATIONS

Max. working pressure	20,000 kPa		
Delivery pressure	0 – 400 kPa		
Inlet	Type 30 stem and handwheel		
Outlet	Ball valve, non-return valve and 6 - 12 mm hose barb		
Relief valve	High volume set at 440 kPa (vent connection)		
Flow rate	kPa	m³/hr	L/min
Indicative only and based on flow recorded in air through the non-return valve at the outlet. For $CO_2 \times 0.808$.	100 350	2.5 7.5	42 125

PART NO DESCRIPTION	
RI1RCD03	One stage CO ₂ , Inlet 20,000 kPa, Outlet 300 kPa
RI1RCD04	One stage CO ₂ , Inlet 20,000 kPa, Outlet 400 kPa
RI1RNI04	One stage nitrogen, Inlet 20,000 kPa, Outlet 400 kPa

Meets AS 5034



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Meets AS 5034

REGULATORS

Two Stage

Two stage CO_2 or N_2 regulator with features that include a high flow safety relief valve, non-return valve on the outlet, gauge protectors and soft seal handwheel. Supplied as standard with 6 and 10 mm hose barbs for the outlet.

Max. working pressure	20,000 kPa		
Delivery pressure	0 - 400 kPa		
Inlet CO ₂ N ₂	Type 30 stem and handwheel Type 50 stem and handwheel		
Outlet	5/8-18 UNF RH with nut and 6 and 8 mm hose barbs		
Relief valve	High volume set at 440 kPa		
Flow rate	kPa	m³/hr	L/min
Indicative only and based on flow recorded in air through the non-return valve at the outlet. For $CO_2 \times 0.808$.	100 350	6 19.5	100 325

PART NO	DESCRIPTION
RGC2SCD4HS	Two stage CO₂ regulator
RGC2SNI4HS	Two stage N₂ regulator

Wall Mounted Regulator Products

Draught Beer Products





REGULATOR PANELS

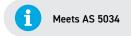
Two Stage

Two stage CO_2 or N_2 regulator with features that include a high flow safety relief valve, non-return valve on the outlet, gauge protectors and soft seal handwheel. Supplied as standard with 6 and 10 mm hose barbs for the outlet. Mounted on a stainless steel bracket with a one metre long connection lead, with anti-whip cable and soft seal handwheel.

SPECIFICATIONS

Max. working pressure	20,000 kPa		
Delivery pressure	0 – 400 kPa		
Inlet CO ₂ N ₂	Type 30 stem and handwheel Type 50 stem and handwheel		
Outlet	5/8-18 UNF RH with nut and 6 and 8 mm hose barbs		
Relief valve	High volume set at 440 kPa		
Flow rate	kPa	m³/hr	L/min
Indicative only and based on flow recorded in air through the non-return valve at the outlet. For $CO_2 \times 0.808$.	100 350	6 19.5	100 325

PART NO DESCRIPTION	
RGC2SCD4HSP	Two stage CO ₂ regulator panel
RGC2SNI4HSP	Two stage N₂ regulator panel





HEATER REGULATOR

- Thermostatically-controlled built-in electric heater keeps the ${\rm CO_2}$ 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
Max. inlet pressure	20,000 kPa
Max. outlet pressure	1,300 kPa
Inlet connection	Type 30
Outlet connection	G 1/2" RH Male
Weight	4.4 kg
Flow rate Note: flowrate @ 15°C	50 m³/hr

Wall Mounted Regulator Products

Draught Beer Products





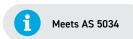
GAS BEER BOARDS

 CO_2

Tesuco® beer 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 handwheel connection. The manifold is stainless steel and has a pressure rating far higher than the 2,400 kPa 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 and 10 mm h

PART NO	DESCRIPTION
TEP1S	One primary, one secondary regulator
TEP2S	One primary, two secondary regulators
TEP3S	One primary, three secondary regulators
TEP4S	One primary, four secondary regulators
TE1S	One secondary regulator only beer board
TE2S	Two secondary regulators only beer board
TE3S	Three secondary regulators only beer board
TE4S	Four secondary regulators only beer board

20,000 kPa		
0 - 1,000 kP 0 - 400 kPa	'a	
Type 30 ster	m and handwh	neel
		and
kPa	m³/hr	L/min
100 350	4.4 15.88	73 265
	0 - 1,000 kPa 0 - 400 kPa Type 30 ster 5/8-18 UNF 6 mm hose Set at 1,300 Set at 440 k	0 – 1,000 kPa 0 – 400 kPa Type 30 stem and handwl 5/8-18 UNF RH with nut a 6 mm hose barb Set at 1,300 kPa Set at 440 kPa kPa m³/hr 100 4.4







REGULATORS

Cylinder Mounted

Tesuco® post mix regulators are engineered to meet AS 5034. They feature single or twin high pressure regulators (fully plated inside to prevent corrosion) with delivery pressure gauges on each regulator and a cylinder contents gauge. 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.

Max. working pressure	20,000 kPa		
Delivery pressure	0 - 800 kPa		
Inlet CO ₂	Type 30 stem	and handwhee	el
Outlet	6 - 12 mm Ho	se barb	
Relief valve	Set at 880 kF	² a	
Flow rate	kPa	m³/hr	L/min
Indicative only and based on flow recorded in air through the non-return valve at the outlet. For $CO_2 \times 0.808$.	100 350	2.5 7.5	42 125

PART NO	DESCRIPTION
RI1S8	Single post mix regulator
RI1T8	Twin post mix regulator assembly





REGULATOR PANEL

Twin

Tesuco® post mix panels are engineered to meet AS 5034. They feature two high pressure regulators (fully plated inside to prevent corrosion) with delivery pressure gauges on each regulator. 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. It is connected to the cylinder by a one metre long pressure connection lead with an anti-whip cable and soft seat handwheel. For high volume applications, a heated version is available.

Max. working pressure	20,000 kPa		
Delivery pressure	0 – 800 kPa for each regulator		
Inlet CO ₂	Type 30 stem	n and handwhee	el
Outlet	6 - 12 mm Ho	ose barb	
Relief valve	Set at 880 kF	Pa	
Flow rate	kPa	m³/hr	L/min
Indicative only and based on flow recorded in air through the non-return valve at the outlet. For CO ₂ x 0.808.	100 350	2.5 7.5	42 125

PART NO	DESCRIPTION
RI1T8P	Post mix regulator assembly
RI1T8HP	Heated post mix regulator assembly

Soft Drink & Beer Dispense

Combinations





REGULATOR

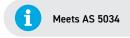
Triple Cylinder Mounted

Tesuco® combination regulators are engineered to meet AS 5034. They feature three high pressure regulators (fully plated inside to prevent corrosion) with delivery pressure gauges on each regulator. 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.

This combination features two post \min and one beer regulator. Other combinations are available on request.

Max. working pressure	20,000 kPa		
Delivery pressure	0 – 800 kPa fo post mix regul 0 – 300 kPa fo beer regulator	lator r each	
Inlet CO ₂	Type 30 stem	and handwhee	el
Outlet	6 - 12 mm Hos	se barb	
Relief valve Post mix Beer	Set at 880 kPa Set at 330 kPa	•	
Flow rate	kPa	m³/hr	L/min
Indicative only and based on flow recorded in air through the non-return valve at the outlet. For CO ₂ x 0.808.	100 350	2.5 7.5	42 125

RI1T8S3 Combination post mix and beer regulator assembly	PART NO	DESCRIPTION
. Igaille. Issue,	RI1T8S3	Combination post mix and beer regulator assembly



Soft Drink & Beer Dispense

Combinations





REGULATOR SYSTEM

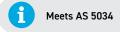
Triple Panel Mounted

Tesuco® combination regulators are engineered to meet AS 5034. They feature three high pressure regulators (fully plated inside to prevent corrosion) with delivery pressure gauges on each regulator. 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. It is connected to the cylinder by a one metre long pressure connection lead with an anti-whip cable and soft seat handwheel. Mounted on a stainless steel backing panel.

This combination features two post mix and one beer regulator. Other combinations are available on request.

Max. working pressure	20,000 kPa		
Delivery pressure	0 – 800 kPa for post mix regul 0 – 300 kPa for beer regulator	ator each	
Inlet CO ₂	Type 30 stem a	and handwhee	l
Outlet	6 - 12 mm Hos	e barb	
Relief valve Post mix Beer	Set at 880 kPa Set at 330 kPa		
Flow rate	kPa	m³/hr	L/min
Indicative only and based on flow recorded in air through the non-return valve at the outlet. For $CO_2 \times 0.808$.	100 350	2.5 7.5	42 125

	PART NO	DESCRIPTION
Meets AS 5034	RI1T8S3P	Combination post mix and beer regulator panel



Wine Dispense Products





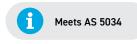
REGULATOR

Two Stage

Tesuco® wine dispense regulators are specifically engineered to perform the exacting requirements of dispensing bottled wine and meet AS 5034. It features two regulators, the first to reduce cylinder pressure down to approximately 600 kPa and the second to give an accurate delivery pressure that will not vary. Outlet pressure is 0 – 30 kPa. This is vital when dealing with bottled wine in dispensing machines, which cannot be subjected to higher pressures. Over pressure is also protected by a high and low pressure relief valve. The regulators are fully plated inside and out with stainless steel seats to prevent corrosion, they also have European food grade certification. There is a cylinder contents gauge and a delivery pressure gauge.

SPECIFICATIONS

Max. working pressure	20,000 kPa		
Delivery pressure	0 - 30 kPa		
Inlet	M10 x 1 win	th Type 50 ste	m and nut
Outlet	5/16" push	fit	
Relief valve	Set at 880	kPa and 40 kF	Pa
Flow rate	kPa	m³/hr	L/min
Indicative only and based on flow recorded in air through the non-return valve at the outlet. For $CO_2 \times 0.808$.	30	1	16.7



PART NO	DESCRIPTION
RIM2NI05	Wine dispense regulator with Type 50 inlet, relief valves, push fit outlet

Disposable Gas Cylinders







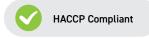


DISPOSABLE GAS CYLINDERS

In many cases, disposable gas cylinders are more convenient than refilling reusable cylinders. They are non-refillable, do not attract cylinder rental and save time. There are a number of cylinders available for food grade applications, the 2.2 litre cylinders have a large capacity and are particularly suitable for beer dispensing, water carbonation and wine dispensing.

Dimensions (mm)	(H) 300 x (D) 102
Volume CO ₂	2.2 L 0.22 m³ or 1,100 g
Outlet	M10 x 1 male
Cylinder pressure CO ₂	10,000 kPa @ +20°C 1.1 kg
Tare weight CO ₂	1.72 kg 2.08 kg
Packaging	Carton of 6
Carton weight	13 kg (Average)
Purity	99.995% minimum

PART NO	DESCRIPTION
GTAR2	Argon Food Grade
GTNI2	Nitrogen Food Grade
GTCD22	CO₂ Food Grade





A range of regulators are available for use with the disposable gas cylinders to suit the various applications.



WINE DISPENSE

Two Stage

SPECIFICATIONS

Max. working pressure	20,000 kPa
Delivery pressure	0 - 30 kPa
Inlet	M10 x 1
Outlet	5/16" push fit
Relief valve	Set at 880 kPa and 40 kPa

PART NO	DESCRIPTION
RIM2NIM10V4	Wine dispense regulator with M10 x 1 inlet, relief valves, isolation valve and push fit outlet.



BEER DISPENSE AND WATER CARBONATION

SPECIFICATIONS

Max. working pressure	13,000 kPa
Delivery pressure	0 - 400 kPa
Inlet	M10 x 1
Outlet	1/4" or 5/16" Push fit
Relief valve	Set at 440 kPa

PART NO	DESCRIPTION
RIMCD4P	Beer dispense or water carbonation regulator, relief valve 1/4" push fit outlet. One gauge outlet pressure gauge
RIMCD4M10	Beer dispense or water carbonation regulator, relief valve 5/16" push fit outlet. Two gauges



HCD10WH

CONNECTION LEADS

Cylinder connection leads over time deteriorate through wear and tear, they should be inspected and leak tested every 6 and 12 months. Tesuco® carry a range of lead assemblies to replace these when required. They are all manufactured using virgin PTFE liners with double braided stainless steel and a protective coating around it. All leads are manufactured and cleaned for food grade. A number of different soft seal hand connections and lead styles are available.

SPECIFICATIONS

Max. working pressure	20,000 kPa
Length	1,000 mm
Inlet	Type 30 handwheel or easyfit
Outlet	1/4" BSPT male

PART NO	DESCRIPTION
HCD10WH	Flexible CO₂ Food Grade lead with ant-whip and handwheel.
HCD10WEF	Flexible CO₂ Food Grade lead with ant-whip and easyfit.
HCD10WHN	Flexible CO₂ Food Grade lead with ant-whip, h/wheel and NRV.



TWIN INLET CYLINDER MANIFOLD

A 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.

Max. working pressure	20,000 kPa
Lead length	1,000 mm
Inlet connection	Type 30 handwheel
Outlet connection	Type 30 Male

PART NO	DESCRIPTION		
TEPTIO	Twin inlet option for primary beer or post mix board		

Beverage

Accessories







CYLINDER BRACKETS

All cylinders must be protected from being knocked over, falling or from impact damage to comply with AS 4332, section 5.2 (g). This is regardless of whether they are full or empty. Tesuco® carry two brackets designed in stainless steel for the beverage industry. Designed and manufactured by Tesuco®, the cylinders rest in a large 'V' shape that enables all cylinders to be easily secured. The edge of the "V" is protected by a nylon strip and the chain is secured by



SPECIFICATIONS

Material	Stainless steel
Length ACB ACB2	300 mm 1,000 mm
Height	70 mm

PART NO	DESCRIPTION		
ACB	Single cylinder bracket		
ACB2	Twin cylinder bracket		



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

Gas Service	Inert Gas
Performance Max. working pressure Operating temperature Flow rate	20,000 kPa -20°C to +50°C 10m³/ hr for CO₂ @ 15
Power rating	240 VAC/ 50 Hz
Capacity	100 Watt
IP rating	IP 45

PART NO	DESCRIPTION		
GH19030	Type 30 inlet and outlet		
GH19014B	1/4" BSPT inlet and outlet		







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

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

PART NO	DESCRIPTION				
AAT1100	Alarm panel with neon audible and visual inc. Plug pack, 1 x 1,000 kPa contact gauges				







SPCL30W

SPRSN30BM10

SPRSN50BM10









НЗНВ10

НЗНВ6



SPARE PARTS

Tesuco® carry a range of spare parts to suit all items. The range is too large to list them all here, but be assured there are spares for every item. Listed below are some of the more common spare parts for regulators and leads.

PART NO	DESCRIPTION
SPRKC10	Spare parts kit for RC1SCD04R and beer board primary regulator
SPRKI04	Spare parts kit for RI1 series regulators and panels Spare parts kit for RIMCD regulators
SPRKIM4D	Spare parts kit for RI1 series
SPCL30W	Spare 6 mm washer for HCD10WH, HCD10WEF and HCD10WHN flexible leads
НЗНВ6	Hose barb 3/8" bullnose to 6 mm barb
H3HB10	Hose barb 3/8" bullnose to 10 mm barb
H3M10	Hose barb 3/8" male cone to 10 mm barb
SPRSN50BM10	Regulator stem, chrome plated, Type 50, M10 x 1 to suit RIM2NIM10
SPRSN30BM10	Regulator stem, chrome plated, Type 30, M10 x 1 to suit RIM2NIM10





CELLAR SIGN PACK

Part No: BLP

The cellar sign pack contains all of the signage required by AS 5034 in one handy pack. It was developed so that installers upgrading an installation with new beverage equipment to meet AS 5034, could meet the requirements of that standard for signage as well. The pack includes non-flammable, non-toxic gas signs. Labels for carbon dioxide pipes, nitrogen pipes, carbon dioxide vent pipes, cold water pipes and isolation valves. Also included are danger signs and "RESERVE" and "IN USE" placards with chains to hang around the cylinders. All signs and labels are made from long wearing and fade resistant materials.



GAS CONTROL

Part No: OTLDS

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

Contents	400 g
Dimensions Product only Carton of 12	(H) 215 x (Ø) 66 mm (H) 225 x (W) 270 x (D) 205 mm
Classification	UN 1950, aerosols, class 2.2

Beverage

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 22 kg of liquid CO_2 which equates to 11.75 m^3 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.

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GAS SAFETY
INDUSTRIAL
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