



**TESUCO**  
**TECHNICAL SUPPLIES COMPANY**

**Gas Manifold &  
Pipeline Equipment**

**QUALITY GAS EQUIPMENT**

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



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



## Tesuco Pty Ltd

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

## We Thank You For Choosing Our Quality Gas Equipment

All Tesuco® manifolds and manifold components are manufactured to meet the requirements of AS 4289 and are constructed of the highest quality materials, these include chrome plated brass isolation valves, stainless steel piping (on manifold rails) and stainless steel brackets. Materials are as specified for the gas type in AS 4289.

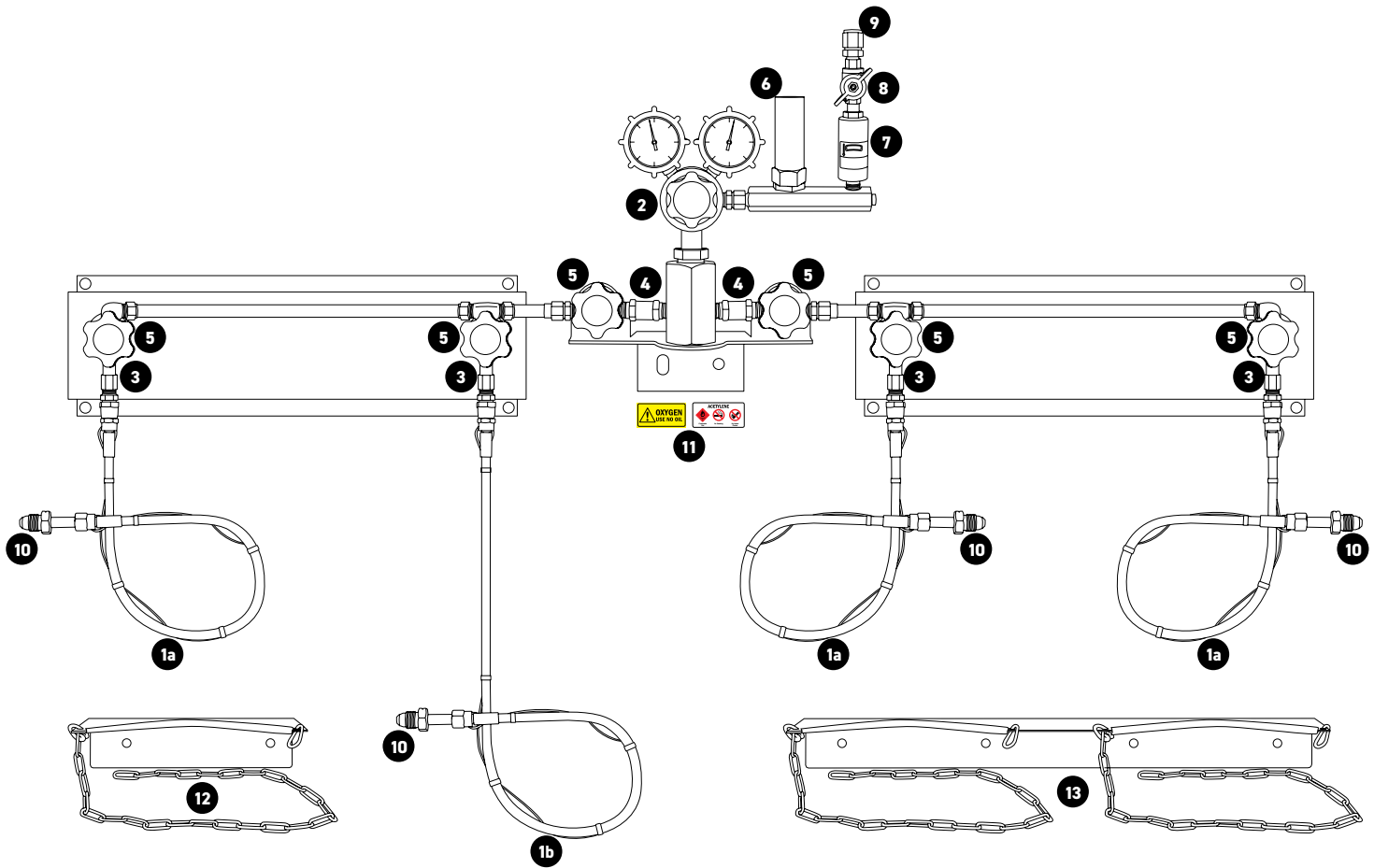
Tesuco® manifolds now come with added safety features such as non-return and isolation valves on every inlet so that each one can be isolated if not connected to a cylinder.

All isolation valves feature an easy to read "OPEN" and "CLOSE" window for easier and safer operation.

All Tesuco® manifolds have been engineered so that the whole manifold system is correctly matched to the maximum flow rate of the regulator. This flow rate is calculated as required in the regulator standard AS 4267. Where manifolds are supplied with flashback arrestors they are matched to the regulator flow rate and the manifold system. Applications that require higher pressures or flow rates will need to be individually ordered but generally will be able to be supplied in 5-7 working days.



Only trained operators and competent persons may use and install manifold and pipeline equipment.

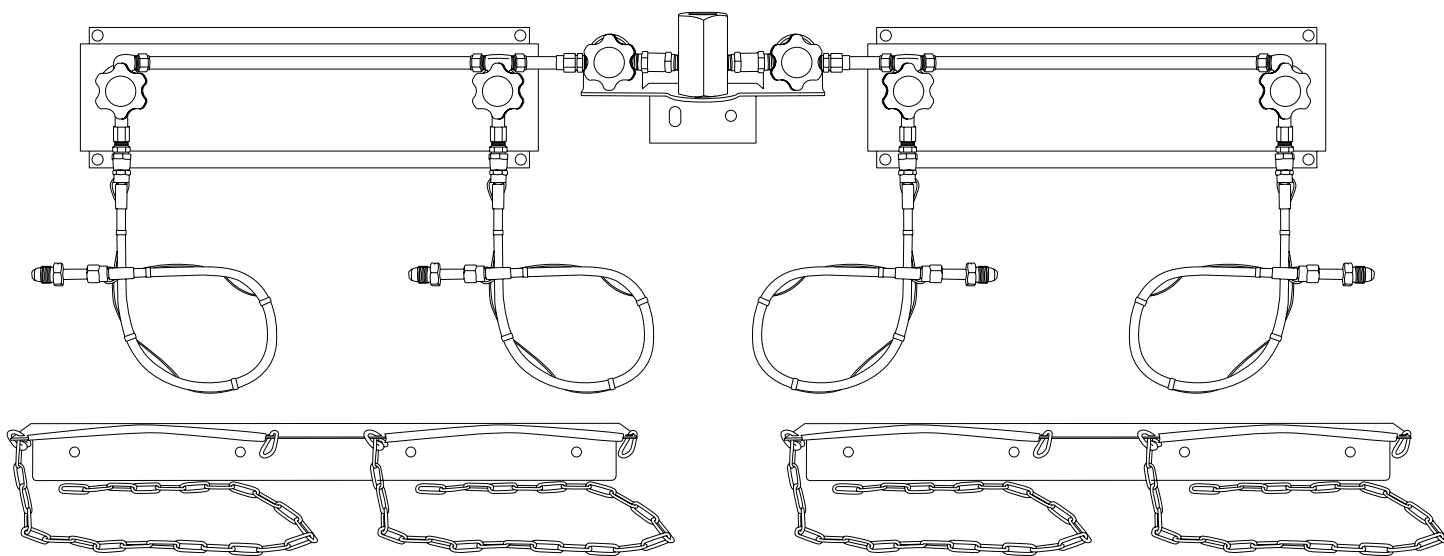


## Tesuco<sup>®</sup> Manifold Systems meet all requirements of AS 4289 & More!

1a	Connection Leads	To BS EN ISO 14113 with anti-whip cable, 800 mm for single cylinder
1b	Connection Leads	To BS EN ISO 14113 with anti-whip cable, 1800 mm for pack system
2	Regulator	To AS 4267
3	Non-Return Valves	Required at each inlet
4	Non-Return Valves	Required on each side of the twin block
5	Isolation Valves	Required on each inlet side of the manifold
6	Safety Relief Valve	To AS 1271
7	Flashback Arrestor	To AS 4603
8	Isolation Valve	Required on the low pressure side
9	Compression Fitting	1/2" Brass or stainless steel for acetylene
10	Inlet Filters	Required by AS 4289
11	Warning Signs	Required by AS 4289
12	Single Bracket	For standard cylinders
13	Twin Bracket	For standard cylinders

# Manifold & Pipeline Equipment

## Manifolds



### MULTI CYLINDER MANIFOLD SYSTEMS

Maximum Working Pressure: 20,000 kPa

PART NO	GAS SERVICE	NUMBER ON LEFT	SUPPLY ON LEFT	NUMBER ON RIGHT	SUPPLY ON RIGHT
MMT	OX (Oxygen)	1	C (Cylinder)	1	C (Cylinder)
	AC (Acetylene)	2	P (Pack)	2	P (Pack)
	HY (Hydrogen)	3		3	
	LP (LpG)	4		4	
	IG (Insert Gas)	5		5	
	NI (Nitrogen)	6		6	
	AI (Air)				
	CO (CO <sub>2</sub> )				



Cylinder brackets are not supplied for P (Pack)

**Examples of sample part numbers using the matrix above.**

PART NO	DESCRIPTION
MMTOX2C2C	Oxygen manual manifold – 2 cylinders each side
MMTNIP3C	Nitrogen manual manifold – 1 pack on left side, 3 cylinders on the right side

### MANUAL MANIFOLDS

Manual manifolds are designed to keep the regulator free from the cylinder or pack and safely mounted on the wall to avoid damage during cylinder changeover. They are also used when there is a requirement for one or more cylinders or packs to be manifolded to supply the required flow or for continuity of supply. They are available in both single and two sided configurations to suit the requirement of the installation.

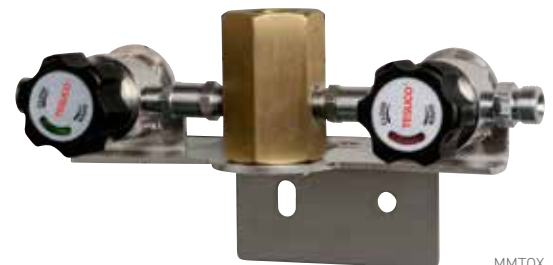


MCSOX

### SINGLE CYLINDER MANIFOLD

Maximum Working Pressure: 20,000 kPa

SPECIFICATIONS	MCSAC	MCSFG	MCSAI	MCSCD	MCSIG	MCSNI	MCSOX
Gas service	Acetylene	Fuel Gas	Air	Carbon Dioxide	Inert Gas	Nitrogen	Oxygen
Inlet fitting	G 3/8" LH Male	G 3/8" LH Male	G 3/8" RH Male	G 3/8" RH Male	G 3/8" RH Male	G 3/8" RH Male	G 3/8" RH Male
Outlet fitting	Type 20	Type 20	Type 60	Type 30	Type 10	Type 50	Type 10



MMTOX

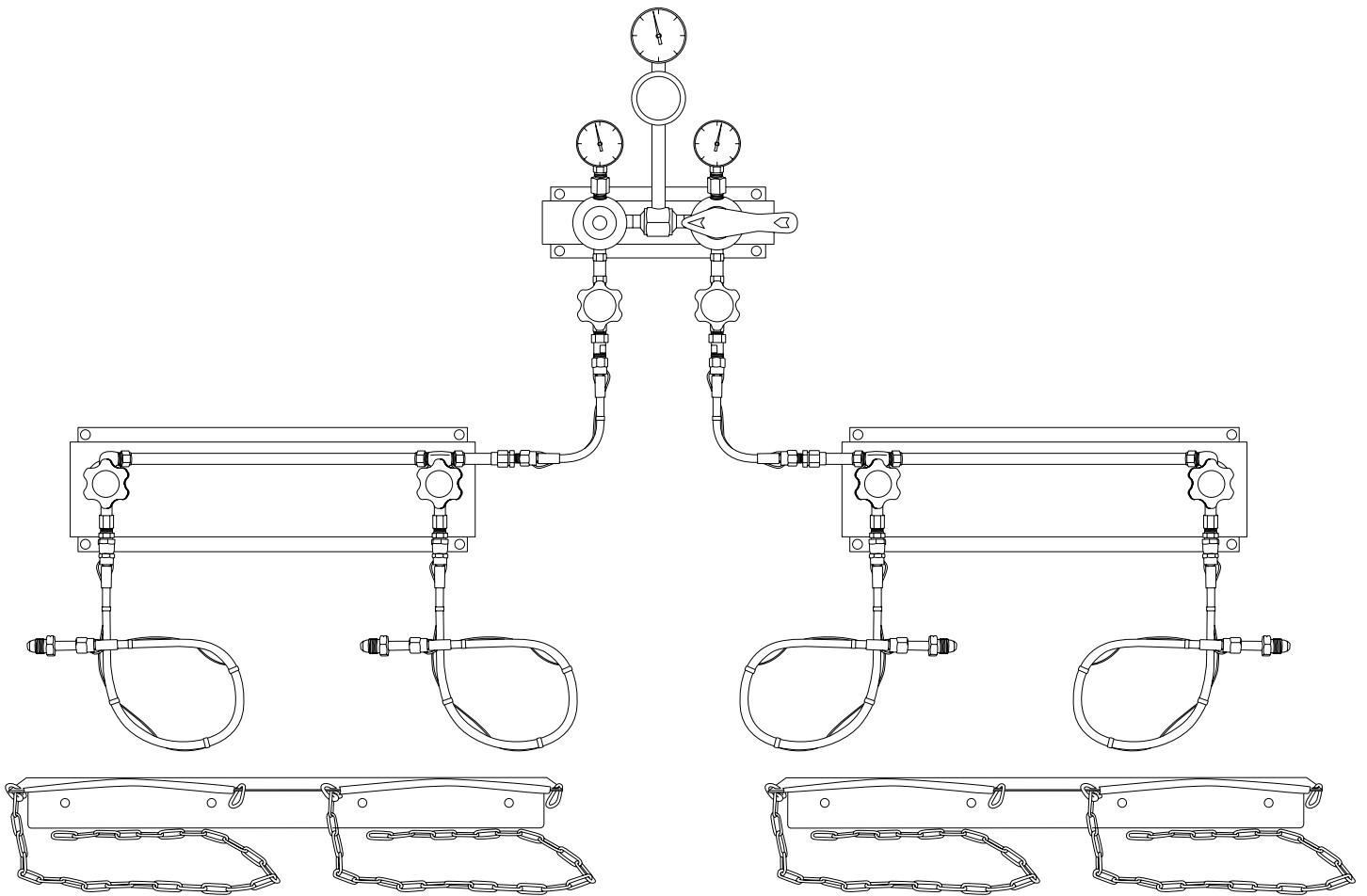
### TWIN CYLINDER MANIFOLD

Maximum Working Pressure: 20,000 kPa

SPECIFICATIONS	MMTAC	MMTFG	MMTAI	MMTIG	MMTNI	MMTOX
Gas service	Acetylene	Fuel Gas	Air	Inert Gas	Nitrogen	Oxygen
Inlet fitting	G 3/8" LH Male	G 3/8" LH Male	G 3/8" RH Male	G 3/8" RH Male	G 3/8" RH Male	G 3/8" RH Male
Outlet fitting	Type 20	Type 20	Type 60	Type 10	Type 50	Type 10

# Manifold & Pipeline Equipment

## Manifolds



### AUTO-CHANGE MANIFOLD SYSTEMS

Maximum Working Pressure: 20,000 kPa

PART NO	GAS SERVICE	NUMBER ON LEFT	SUPPLY ON LEFT	NUMBER ON RIGHT	SUPPLY ON RIGHT
GMSAC	OX (Oxygen)	1	C (Cylinder)	1	C (Cylinder)
	HY (Hydrogen)	2	P (Pack)	2	P (Pack)
	LP (LpG)	3		3	
	IG (Insert Gas)	4		4	
	NI (Nitrogen)	5		5	
	AI (Air)	6		6	
	CD (CO <sub>2</sub> )				



Cylinder brackets are not supplied for P (Pack)

# Manifold & Pipeline Equipment

## Manifolds

### AUTO-CHANGE MANIFOLD

The auto-change manifold is designed to provide a continuous supply of gas without interruption when changing from one supply side to the next. Easy to use control lever or handwheel, moves to change and indicate the supply side when cylinders or packs are replaced. High pressure gauges on each supply side indicate the status of each side. The manifolds are gas specific, labelled and colour coded accordingly. Alarm panels and contact gauges (page 10) can be added on oxygen, inert and fuel gas manifolds for audible and visual indication of low gas and manifold supply status. They are available in a number of configurations to suit the requirement of the installation. Point of use regulators can be added downstream at the application for use with the high flow manifold.

Safety relief valve/flashback arrestor systems (pages 11 & 12) can be added easily to the outlet of the line regulator to provide maximum safety for the equipment downstream.



### OXYGEN, INERT & FUEL GASES

Standard Flow

Maximum Working Pressure: 20,000 kPa

SPECIFICATIONS	GMSACAI	GMSACAR	GMSACCD	GMSACFG	GMSACIG	GMSACNI	GMSACOX
Gas service	Air	Argon	Carbon Dioxide	Fuel Gas	Inert Gas	Nitrogen	Oxygen
Inlet pressure	20,000 kPa						
Outlet pressure	0 - 1,360 kPa						
Flow rate @ 1,360 kPa 1,000 kPa 340 kPa	500 L/min (30 m <sup>3</sup> /hr) 410 L/min (24.6 m <sup>3</sup> /hr) 82.4 L/min (5 m <sup>3</sup> /hr)						

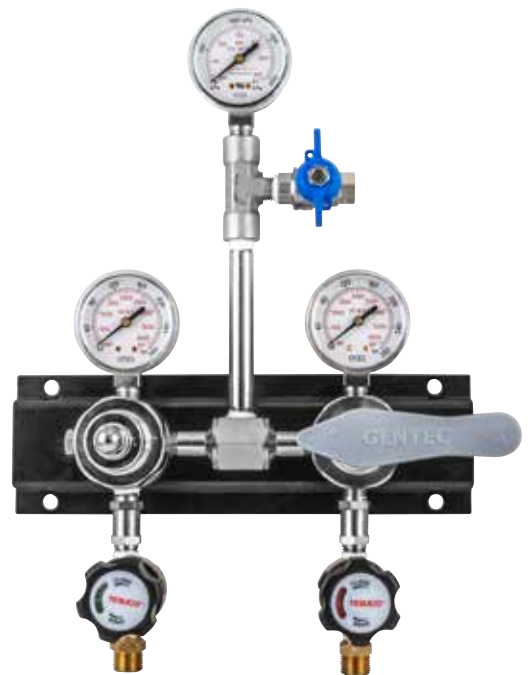
# Manifold & Pipeline Equipment

## Manifolds

### OXYGEN, INERT & FUEL GASES

#### High Flow

Maximum Working Pressure: 20,000 kPa



SPECIFICATIONS	GMSACAIH	GMSACARH	GMSACCDH	GMSACFGH	GMSACIGH	GMSACNIH	GMSACOXH
Gas service	Air	Argon	Carbon Dioxide	Fuel Gas	Inert Gas	Nitrogen	Oxygen
Inlet pressure	20,000 kPa						
Outlet pressure	1,360 - 1,600 kPa (Dependent on supply side)						
Flow rate @							
1,360 kPa	1900 L/min (114 m <sup>3</sup> /hr)						
1,000 kPa	1817 L/min (109 m <sup>3</sup> /hr)						
340 kPa	1321 L/min (79.26 m <sup>3</sup> /hr)						

### ACETYLENE

Maximum Working Pressure: 2,500 kPa

SPECIFICATIONS	GMSACAC
Gas service	Acetylene
Inlet pressure	2,500 kPa
Outlet pressure	150 kPa
Flow rate @ 150 kPa	260 L/min (15.6 m <sup>3</sup> /hr)





## HIGH PRESSURE CONNECTION LEADS

High pressure connection leads provide a safe way of connecting high pressure gas in the cylinder or cylinder pack to a manifold system. Different lengths are available to suit various applications.

This range of industrial high pressure flexible and rigid connection leads are manufactured to BS EN ISO 14113 (rubber and plastic hose assemblies for compressed or liquefied gases up to a maximum design pressure of 450 bar), with inlet connections to AS 2473, under a strict BS EN ISO 9001 quality and design management system.



### 800 mm FOR SINGLE CYLINDER 30,000 kPa to BS EN ISO 14113

PART NO	GAS SERVICE	INLET CONNECTION
HAC08W	Acetylene	Type 20
HAI08W	Air	Type 60
HAI08WH	Air	Type 60 with hand wheel
HAI08WP	Air	Type 61
HCD08W	Carbon Dioxide	Type 30
HCD08WH	Carbon Dioxide	Type 30 with hand wheel
HHY08W	Hydrogen	Type 20
HIG08W	Inert Gas	Type 10
HLP08	LpG	Type 21
HNI08W	Nitrogen	Type 50
HNI08WH	Nitrogen	Type 50 with hand Wheel
HNI08WP	Nitrogen	Type 51
HOX08W	Oxygen	Type 10

### 1800 mm FOR CYLINDER PACKS 30,000 kPa to BS EN ISO 14113

PART NO	GAS SERVICE	INLET CONNECTION
HAC18W	Acetylene	Type 20
HAI18W	Air	Type 60
HAI18WH	Air	Type 60 with hand wheel
HAI18WP	Air	Type 61
HCD18	Carbon Dioxide	Type 30
HCD18W	Carbon Dioxide	Type 30
HCD18WH	Carbon Dioxide	Type 30 with hand wheel
HHY18W	Hydrogen	Type 20
HIG18W	Inert Gas	Type 10
HLP18	LpG	Type 21
HNI18W	Nitrogen	Type 50
HNI18WH	Nitrogen	Type 50 with hand wheel
HNI18WP	Nitrogen	Type 51
HOX18W	Oxygen	Type 10

# Manifold & Pipeline Equipment

## Regulators

### HIGH PRESSURE REGULATOR

#### Single Stage

SPECIFICATIONS	RC1BAC1.5	RC1BOX10	RC1BIG10	RC1BNI10	RC1BHY10
Gas service	Acetylene	Oxygen	Inert Gas	Nitrogen	Hydrogen
Max. inlet pressure ( $p_1$ )	2,500 kPa		20,000 kPa		
Max. outlet pressure ( $p_2$ )	150 kPa		1,000 kPa		
Rated flow	28.5 m <sup>3</sup> /hr @ 134 kPa		81.6 m <sup>3</sup> /hr @ 250 kPa		
Inlet configuration			Bottom entry		
Outlet connection			3 O'clock		



RC1BOX10

### HIGH PRESSURE REGULATOR

#### Dual Stage

**i** Meets AS 4267

SPECIFICATIONS	RT2BAC1.5	RT2BOX10	RT2BIG10	RT2BNI10	RT2BHY10
Gas service	Acetylene	Oxygen	Inert Gas	Nitrogen	Hydrogen
Max. inlet pressure ( $p_1$ )	3,000 kPa	20,000 kPa	20,000 kPa	20,000 kPa	20,000 kPa
Max. outlet pressure ( $p_2$ )	150 kPa	1,000 kPa	1,000 kPa	1,000 kPa	1,000 kPa
Rated flow	8.5 m <sup>3</sup> /hr	35 m <sup>3</sup> /hr	30 m <sup>3</sup> /hr	30 m <sup>3</sup> /hr	140 m <sup>3</sup> /hr
Inlet configuration			Bottom entry		
Outlet connection			3 O'clock		



RT2BOX10

### HIGH PRESSURE REGULATOR

#### Single Stage

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 m <sup>3</sup> /hr <i>Note: flowrate @ 5,000 kPa outlet 20,000 kPa inlet</i>	340 m <sup>3</sup> /hr <i>Note: flowrate @ 10,000 kPa outlet 20,000 kPa inlet</i>	360 m <sup>3</sup> /hr <i>Note: flowrate @ 10,000 kPa outlet 20,000 kPa inlet</i>	360 m <sup>3</sup> /hr <i>Note: flowrate @ 10,000 kPa outlet 20,000 kPa inlet</i>
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			To suit gas type	
Inlet configuration			Side entry	
Outlet connection			1/4" NPT FM	



RG1S300

### GAS ALARM PANEL

Gas alarm panels are installed to give visual or, audible and visual indication of a depleted gas supply. Panels can be installed at any point in a gas distribution system, as long as they can be connected to an appropriate signaling device. These devices include, but are not limited to, pre-set and adjustable contact gauges and pressure switches, depending upon the application. The use of an intrinsically safe barrier on units operating in hazardous areas is recommended. Gas alarm panels are available in a single or two channel versions. The single channel alarm panel is most suitable for manual manifolds while the two channel panel can be used with semi-automatic manifolds, where the status of both sides can be easily monitored.

### DIGITAL PRESSURE SWITCH

15-35 VAC/DC



PART NO	DESCRIPTION
APSDB	Digital pressure switch (BSP thread)
APSDN	Digital pressure switch (NPT thread)
APSDP	Plug with 10 m lead to suit digital pressure switch

### SINGLE CHANNEL ALARM PANEL

24 VAC/DC



#### SPECIFICATIONS

#### AAT

#### Inclusions

- Audible and visual alarm panel with separate neon light
- Plug pack

#### AAT1100

- Audible and visual alarm panel with separate neon light
- 1 x 1,000 kPa Contact gauges
  - Plug pack

#### AAT2100

- Audible and visual alarm panel with separate neon light
- 2 x 1,000 kPa Contact gauges
  - Plug pack

Note: Contact gauges are adjustable to required pressure

### TWO CHANNEL ALARM PANEL

12 Volt DC Output



#### SPECIFICATIONS

#### AA2

#### Inclusions

- Visual and audible 2 channel complete with separate flashing blue strobe with 6 m lead
- 240 Volt power input

#### AA2100

- Visual and audible 2 channel complete with separate flashing blue strobe with 6 m lead
- 2 x 1,000 kPa Contact gauges
  - 240 Volt power input

Note: Contact gauges are adjustable to required pressure

# Manifold & Pipeline Equipment

## Gas Alarm Panels

### FOUR CHANNEL ALARM PANEL 12 Volt DC Output



AA4



AA4100

#### SPECIFICATIONS

##### Inclusions

Visual and audible 4 channel complete with separate flashing blue strobe with 6 m lead

- 240 Volt power input

Visual and audible 4 channel complete with separate flashing blue strobe with 6 m lead

- 4 x 1,000 kPa Contact gauges
- 240 Volt power input

*Note: Contact gauges are adjustable to required pressure*

## SAFETY RELIEF VALVES

Safety relief valves and safety relief valve systems are designed to protect low pressure equipment downstream from the regulator in the event of a major failure. They are designed and made in Australia specifically for the application and to meet the requirements of relevant standards.

### SAFETY RELIEF VALVE SYSTEMS

#### Inert Gas

SPECIFICATIONS	ARV6IG	ARV13IG	ARVIGSP
Gas service	Inert Gas	Inert Gas	Inert Gas
Set pressure	600 kPa	1,300 kPa	User defined
Inlet	5/8-18 UNF-LH Female nut		
Outlet	1/2" Brass compression fitting		



ARV13IG

### SAFETY RELIEF VALVE SYSTEMS

#### Oxygen

SPECIFICATIONS	ARV130X	ARV130XD	ARVOXSP	ARVSPD
Gas service	Oxygen	Oxygen	Oxygen Special	Oxygen
Set pressure	1,300 kPa	1,300 kPa	User defined	User defined
Inlet	5/8-18 UNF-LH Female nut			
Outlet	1/2" Brass compression fitting			



ARV130X

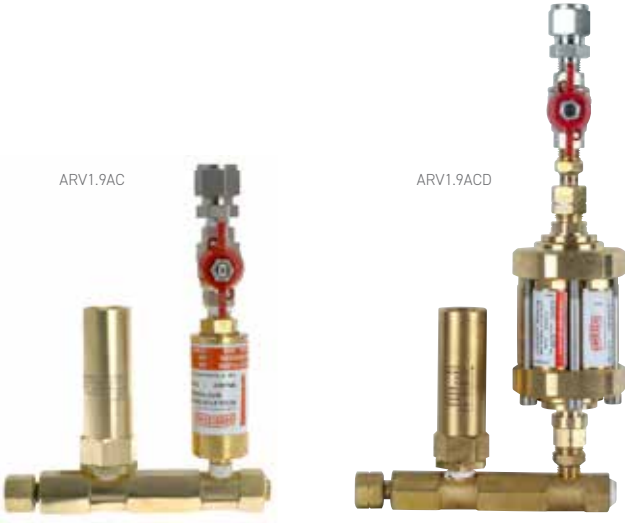
ARV130XD

# Manifold & Pipeline Equipment

## Safety Relief Valves

### SAFETY RELIEF VALVE SYSTEMS

Fuel Gas



SPECIFICATIONS	ARV1.9AC	ARV1.9ACD	ARV6FG	ARV6FGD	ARV13FG	ARV13FGD	ARVSPD	ARVFGSP
Gas service	Acetylene	Acetylene	Fuel Gas	Fuel Gas	Fuel Gas	Fuel Gas	Fuel Gas	Fuel Gas special
Set pressure	190 kPa	190 kPa	600 kPa	600 kPa	1,300 kPa	1,300 kPa	User defined	User defined
Inlet	5/8-18 UNF-LH Female nut							
Outlet	1/2" Stainless steel compression fitting							

### SAFETY RELIEF VALVE

Inert/Fuel Gas

SPECIFICATIONS	ARV1.9	ARV3	ARV6	ARV8	ARV13IF	ARV26
Gas service	Inert/Fuel					
Set pressure	190 kPa	300 kPa	600 kPa	800 kPa	1,300 kPa	2,600 kPa
Inlet	1/4" NPT					
Outlet	1/2" NPT					



### SAFETY RELIEF VALVE

Oxygen

SPECIFICATIONS	ARV13
Gas service	Oxygen
Set pressure	1,300 kPa
Inlet	1/4" NPT
Outlet	1/2" NPT



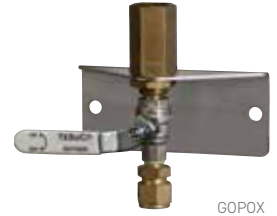
# Manifold & Pipeline Equipment

## Non-regulated Outlet Points System

### LOW PRESSURE

The low pressure outlet points include regulator mounting blocks, colour coded lever style isolation valves, 1/2" pipe compression fittings and warning labels all mounted on a stainless steel bracket. They are available for maximum working pressures up to 4,200 kPa. There are single, twin and triple systems available.

**i** Meets AS 4289



### SINGLE SYSTEMS

Industrial Gases

SPECIFICATIONS	GOPAC	GOPAI	GOPCD	GOPFG	GOPIG	GOPLP	GOPNI	GOPOX	GOPS1	
Gas service	Acetylene	Air	Carbon Dioxide	Fuel Gas	Inert Gas	LpG	Nitrogen	Oxygen	Single point valve to customer specifications	
Outlet connection	Type 20	Type 60	Type 30	Type 20	Type 10	Type 20	Type 50	Type 10		
Max. working pressure	4,200 kPa									
Inlet connection	1/2" Compression fittings									

### TWIN SYSTEMS

Industrial Gases

SPECIFICATIONS	GOPOA	GOPOL	GOPS2
Gas service	Oxygen/Acetylene	Oxygen/LpG	Twin point valve to customer specifications
Outlet connection	Oxygen Type 10 Acetylene Type 20	Oxygen Type 10 LpG Type 20	
Max. working pressure	4,200 kPa		
Inlet connection	1/2" Compression fittings		



### TRIPLE SYSTEMS

Industrial Gases

SPECIFICATIONS	GOPOAI	GOPOLI	GOPS3
Gas service	Oxygen/Acetylene /Inert Gas	Oxygen/LpG /Inert Gas	Triple point valve to customer specifications
Outlet connection	Oxygen Type 10 Acetylene Type 20 Inert Gas Type 10	Oxygen Type 10 LpG Type 20 Inert Gas Type 10	
Max. working pressure	4,200 kPa		
Inlet connection	1/2" Compression fittings		



# Manifold & Pipeline Equipment

## Non-regulated Outlet Points System

### HIGH PRESSURE

The high pressure outlet points include a high pressure rated cylinder isolation valve, 1/2" solder pipe connection and warning label all mounted on a stainless steel bracket. They are available for maximum working pressures up to 20,000 kPa. There are single, twin and triple systems available.

**i** Meets AS 4289



### SINGLE SYSTEMS

Industrial Gases

SPECIFICATIONS	GOPACH	GOPCDH	GOPFGH	GOPIGH	GOPLPH	GOPOXH
Gas service	Acetylene	Carbon Dioxide	Fuel Gas	Inert Gas	LpG	Oxygen
Max. working pressure	20,000 kPa					
Inlet connection	1/2" Pipe solder connection					
Outlet connection	Type 20	Type 30	Type 20	Type 10	Type 20	Type 10

### TWIN SYSTEMS

Industrial Gases

SPECIFICATIONS	GOPOAH	GOPOLH
Gas service	Oxygen/Acetylene	Oxygen/LpG
Max. working pressure	20,000 kPa	
Inlet connection	1/2" Pipe solder connection	
Outlet connection	Oxygen Type 10 Acetylene Type 20	Oxygen Type 10 LpG Type 20



### TRIPLE SYSTEMS

Industrial Gases

SPECIFICATIONS	GOPOAIH	GOPOLIH
Gas service	Oxygen/Acetylene/Inert Gas	Oxygen/LpG/Inert Gas
Max. working pressure	20,000 kPa	
Inlet connection	1/2" Pipe solder connection	
Outlet connection	Oxygen Type 10 Acetylene Type 20 Inert Gas Type 10	Oxygen Type 10 LpG Type 20 Inert Gas Type 10



# Manifold & Pipeline Equipment

## Regulated Outlet Points System

### FLOWMETERS

SPECIFICATIONS	RCFL25	RCFL40
Flowmeter scale	0 - 25 L/min	0 - 40 L/min
Max. working pressure	800 kPa	
Inlet connection	5/8-18 UNF-RH Female	
Outlet connection	5/8-18 UNF-RH Male	



RCFL40

### REGULATOR FLOWMETER

Argon/CO<sub>2</sub>

SPECIFICATIONS	GOPSPFL25	GOPSPFL25C
Description	Inbuilt flowmeter	Inbuilt flowmeter complete
Flowmeter scale	0 - 25 L/min	
Max. working pressure	2,500 kPa	
Inlet connection	1/4" NPT	1/2" Compression fitting
Outlet connection	5/8-18 UNF-RH	



GOPSPFL25

GOPSPFL25C

### SINGLE

Inert Gas

SPECIFICATIONS	GOPRAC
Flowmeter scale	0 - 40 L/min
Max. working pressure	2,500 kPa
Inlet connection	1/2" Compression fitting
Outlet connection	5/8-18 UNF-RH



Regulator meets AS 4840  
Pressure gauge meets AS 4706



# Manifold & Pipeline Equipment

## Regulated Outlet Points System

### OUTLET POINT SYSTEMS

These modular outlet point systems come complete with regulator, isolation valve, pipe compression fitting for ease of pipe connection, stainless steel mounting bracket, warning label and a flashback arrestor if required for the gas type.

### TWIN Argon



SPECIFICATIONS	GOPRT	GOPRR8	GOPRR15	GOPRR20
Description	Set pressure with blanking plug	Set pressure with 8 L/min flow restrictors	Set pressure with 15 L/min flow restrictors	Set pressure with 20 L/min flow restrictors
Max. working pressure	2,500 kPa			
Inlet connection	1/2" Compression fitting			
Outlet connection	5/8-18 UNF-RH			

**i** Regulator meets AS 4840  
 Pressure gauge meets AS 4706



### SINGLE Industrial Gases

SPECIFICATIONS	GOPRFG	GOPRHY	GOPRLP	GOPRIG	GOPROX
Gas service	Acetylene	Hydrogen	LpG	Inert Gas	Oxygen
Max. working pressure	2,500 kPa				
Inlet connection	1/2" Compression fitting				
Outlet connection	5/8-18 UNF-RH				
Max outlet pressure	0 - 150 kPa	0 - 1,000 kPa	0 - 400 kPa	0 - 1,000 kPa	0 - 1,000 kPa

# Manifold & Pipeline Equipment

## Regulated Outlet Points System

### TWIN

#### Industrial Gases

##### Includes

- Regulators
- Flashback arrestors
- Isolation valves
- Compression fittings
- Brackets
- Labels



GOPROA



Regulator meets AS 4840  
Pressure gauge meets AS 4706

#### SPECIFICATIONS

	GOPROA	GOPROL
Gas service	Oxygen/Acetylene	Oxygen/LpG
Max. working pressure	2,500 kPa	2,500 kPa
Inlet connection	1/2" Compression fitting	1/2" Compression fitting
Outlet connection	5/8-18 UNF-RH / 5/8-18 UNF-LH	5/8-18 UNF-RH / 5/8-18 UNF-LH

### TRIPLE

#### Industrial Gases

##### Includes

- Regulators
- Flashback arrestors
- Isolation valves
- Compression fittings
- Brackets
- Labels



GOPROASP



Regulator meets AS 4840  
Pressure gauge meets AS 4706

#### SPECIFICATIONS

	GOPROAFG	GOPROASP	GOPROLFG	GOPROLSP
Gas service	Oxygen/Acetylene Argon flowgauge	Oxygen/Acetylene Argon set pressure	Oxygen/LpG Argon flowgauge	Oxygen/LpG Argon flowgauge
Max. working pressure	2,500 kPa	2,500 kPa	2,500 kPa	2,500 kPa
Inlet connection	1/2" Compression fitting			
Outlet connection	5/8-18 UNF-RH / 5/8-18 UNF-LH			



## GAS HEATERS

Gas heaters are used with industrial gases, particularly CO<sub>2</sub> and CO<sub>2</sub> mixtures on the high pressure side of the manifold to warm the gas prior to the regulator, improving the flow rate through the regulator and preventing the gas from freezing.

SPECIFICATIONS	GH19030	GH19014B	GVV500-INOX	GH900
Flow rate	10 m <sup>3</sup> /hr @ 15°C	10 m <sup>3</sup> /hr @ 15°C	30 m <sup>3</sup> /hr @ 15°C	50 m <sup>3</sup> /hr @ 15°C
Max. working pressure	20,000 kPa	20,000 kPa	30,000 kPa	20,000 kPa
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 Male	1/4" NPT Female
Power	240 VAC	240 VAC	240 VAC	240 VAC
Capacity	100 W	100 W	200 W	900 W
IP Rating	IP45	IP45	IP54	IP45

## HIGH PRESSURE GAS FILTERS

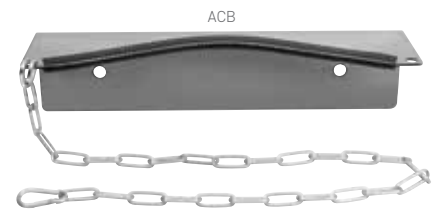
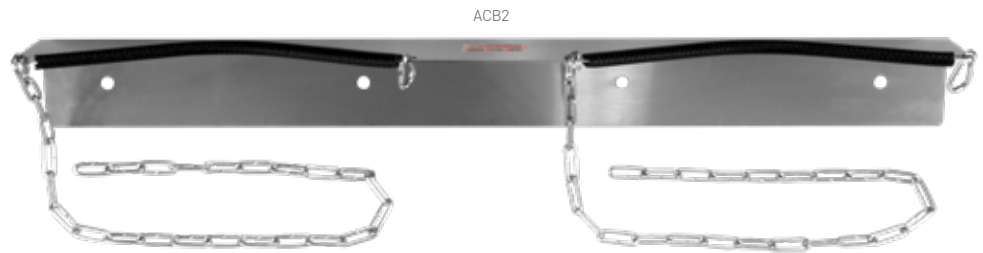
Gas Filters are used with industrial gases on pipeline installations. They are located on the high pressure side of the regulator on a cylinder manifold system and it is used where pressure regulators and line fittings must be protected from contamination. They can also be used on bulk liquid vessel installations, as the flow rate is high even at relatively low pressure. It is a requirement of the medical oxygen standard, that high pressure filters are fitted.



SPECIFICATIONS	0473-0098
Flow rate	135 m <sup>3</sup> /hr @ 20,000 kPa 90 m <sup>3</sup> /hr @ 10,000 kPa 25 m <sup>3</sup> /hr @ 2,500 kPa
Max. working pressure	30,000 kPa
Inlet	1/4" NPT Female
Outlet	1/4" NPT Female

# Manifold & Pipeline Equipment

## Accessories



### CYLINDER BRACKETS

All cylinders must be protected from being knocked over, falling and/or impact damage to comply with AS 4332. The stainless steel brackets, designed by Tesuco®, are proudly Australian made. Cylinders rest in a large 'V' shape that enables all cylinder sizes to be easily secured. The chain is anchored at the correct length using the clip provided. The LpG bracket has a longer chain for the larger diameter cylinder.

PART NO	DESCRIPTION
ACB	Single bracket standard cylinders
ACB2	Twin bracket standard cylinders
ACBL	LpG cylinders

### GAS CONTROL

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

- Sold to distributors in a display pack of 12 units
- Aerosol with easy to use Acc-U-Sol valve
- Aluminum container
- Safety tear-off tab
- Small red extension tube supplied for accurate application as pictured
- Approved by DVGW to DIN EN 14291





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



## LABELS & SIGNS

The pre-printed labels and signs are designed for use on oxygen and acetylene/LpG manifold systems and at oxygen and acetylene/LpG pipeline outlet points to adhere to the requirements detailed in AS 4289. A range of pipe identification labels are also available for various gas types.

	PART NO	TYPE	DIMENSIONS (mm)
	W-MANLAB-01	Oxygen outlet point warning	(H) 50 x (W) 100
	W-MANLAB-02	Oxygen manifold warning	(H) 30 x (W) 100
	W-MANLAB-03	Acetylene manifold and outlet point warning	(H) 50 x (W) 100
	W-MANLAB-04	Low pressure outlet point regulator warning	(H) 30 x (W) 100
	W-MANLAB-07	LpG manifold and outlet point warning	(H) 50 x (W) 100
	W-MANLAB-05	"IN USE" sign with chain Suitable for outdoor use	(H) 45 x (W) 84
	W-MANLAB-06	"Reserve" sign with chain Suitable for outdoor use	(H) 45 x (W) 84
	W-MANLABTU	Tesuco® "IN USE" with chain 10 Year outdoor life	(H) 45 x (W) 84
	W-MANLABTR	Tesuco® "RESERVE" with chain 10 year outdoor life	(H) 45 x (W) 84








# Manifold & Pipeline Equipment

## Accessories

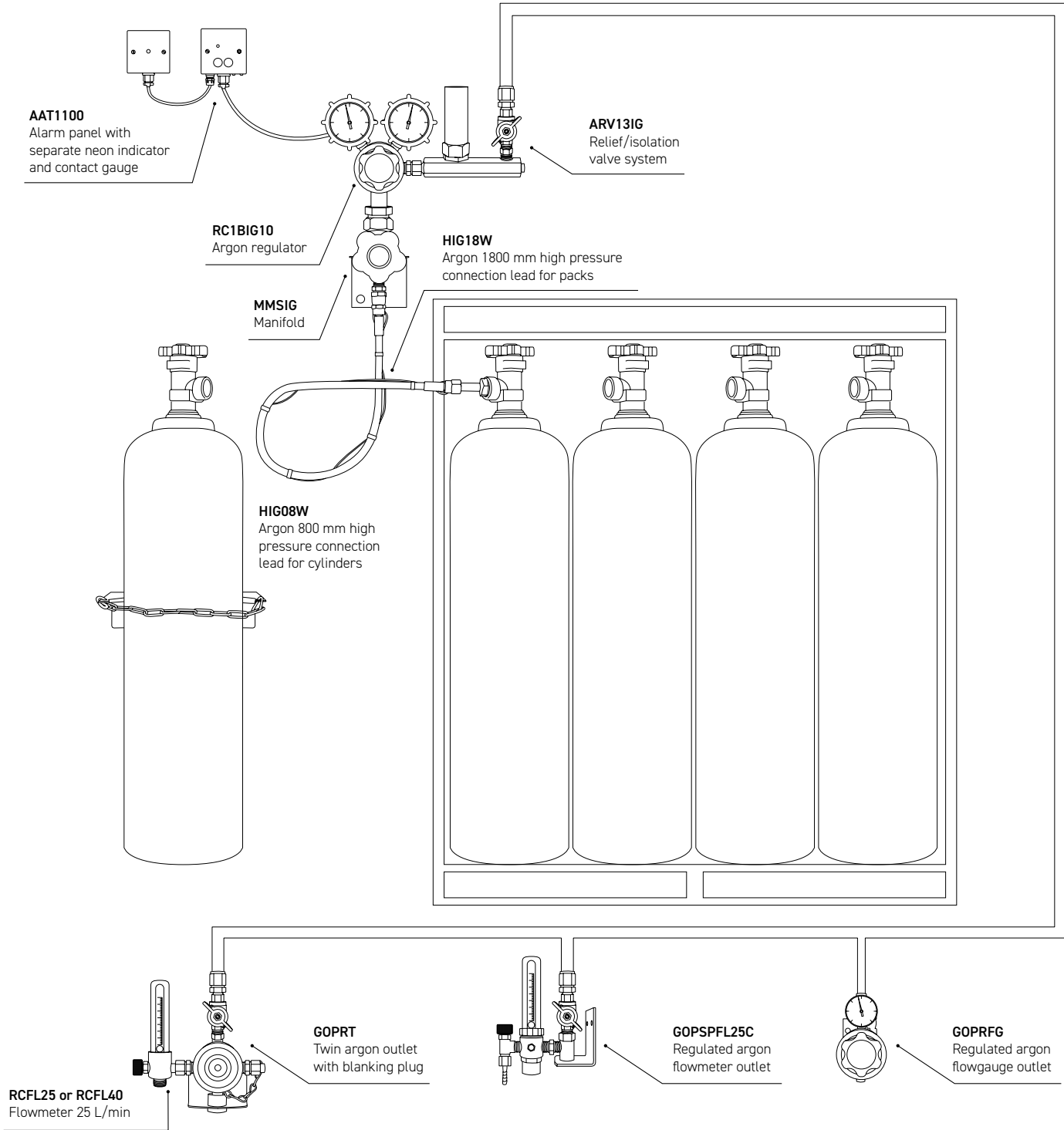


### BLANKING PLUGS

When manifold inlet connections or unregulated outlet points are not in use, it is good practice to seal them with blanking plugs. This can save gas leakage, keep dust and other particles out and act as a safety device where there is a high pressure connection.

	PART NO	DESCRIPTION
	G-ADPVBP10	Blanking Plug Brass Type 10
	G-ADPVBP20	Blanking Plug Brass Type 20
	G-ADPVBP21	Blanking Plug Brass Type 21
	G-ADPVBP50W	Blanking Plug Brass Type 50 Handwheel
	G-ADPVBP60W	Blanking Plug Brass Type 60 Handwheel
	PART NO	DESCRIPTION
	W-PLUG38-L/H	Blanking Plug L/H 3/8
	W-PLUG38-R/H	Blanking Plug R/H 3/8

# Manifold & Pipeline Equipment Flow Diagram



## SINGLE ARGON/ARGON MIXTURES

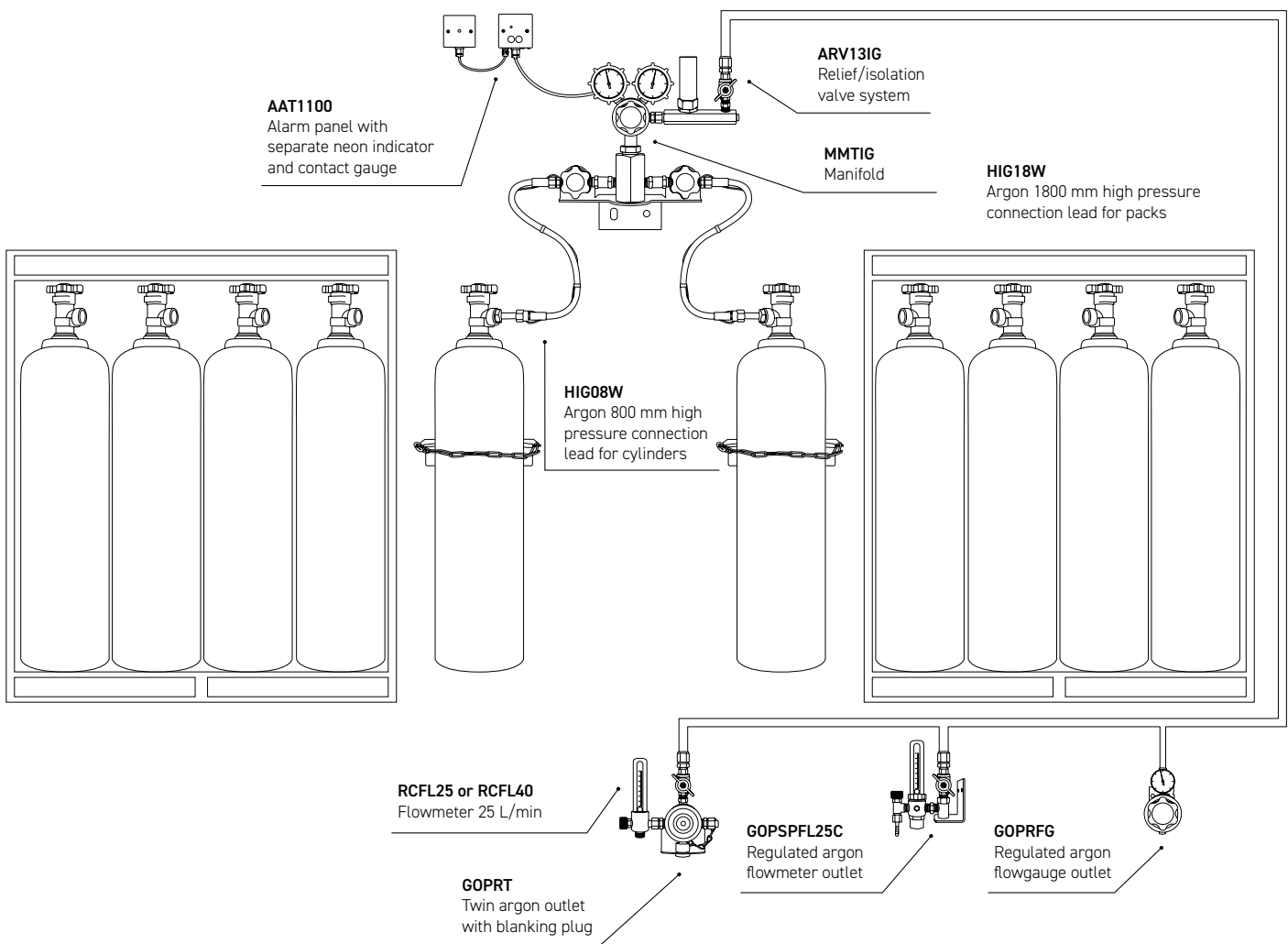
Manual manifold and pipeline layout for single cylinders or packs.

# Manifold & Pipeline Equipment

## Flow Diagram

### TWIN ARGON/ARGON MIXTURES

Manual manifold and pipeline layout for single cylinders or packs.



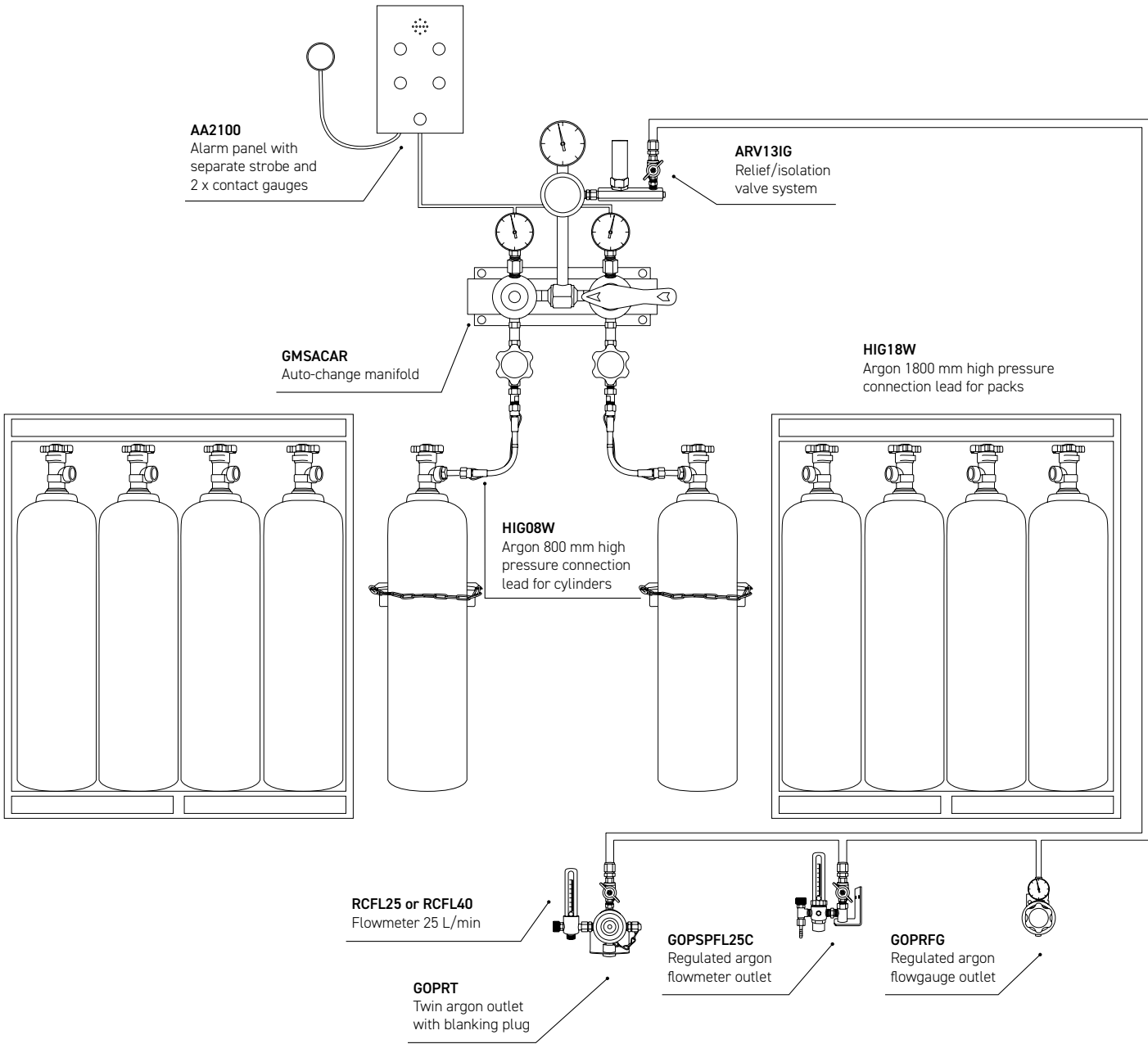


# Manifold & Pipeline Equipment

## Flow Diagram

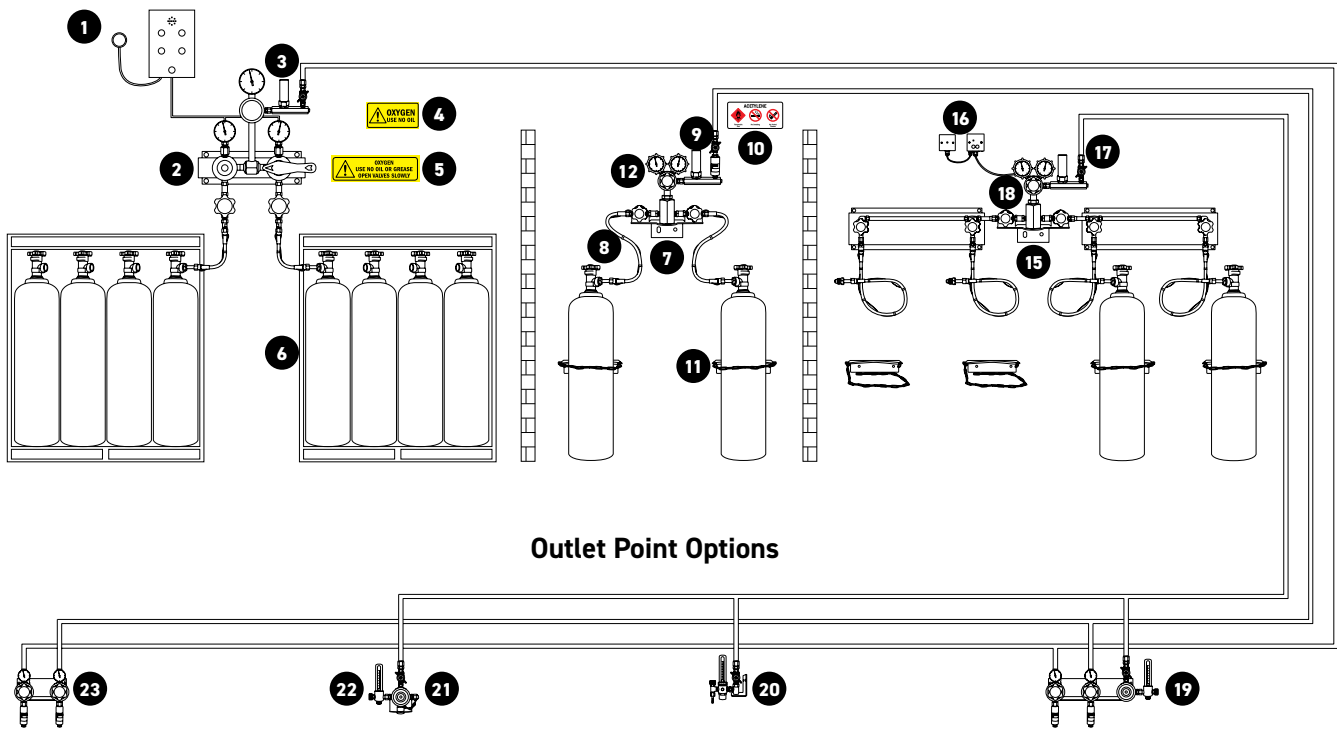
### AUTO-CHANGE ARGON/ARGON MIXTURES

Manual manifold and pipeline layout for single cylinders or packs.



# Manifold & Pipeline Equipment

## Flow Diagram



Outlet Point Options

"IN USE" and "RESERVE" signs to be placed on either side of the manifold.



### PART NO

### DESCRIPTION

PART NO	DESCRIPTION
1	AA2100 Alarm panel with separate strobe and 2 x contact gauges
2	GMSACOX Auto-change manifold
3	ARV130X Oxygen FBA, relief/isolation valve system
4	W-MANLAB-01 Oxygen warning label "USE NO OIL"
5	W-MANLAB-02 Oxygen warning label "OPEN VALVES SLOWLY"
6	HOX18W Oxygen 1800 mm high pressure lead for packs
7	MMTAC Manual manifold
8	HAC08W Acetylene 800 mm high pressure lead for cylinders
9	ARV1.9AC Acetylene FBA, relief/isolation valve system
10	W-MANLAB-03 Acetylene warning label
11	ACB Cylinder bracket
12	RC1BAC1.5 Acetylene regulator
13	W-MANLAB-05 "IN USE" sign
14	W-MANLAB-06 "Reserve" sign
15	MMTIG2C2C Manual manifold
16	AAT1100 Alarm panel with separate neon indicator and contact gauge
17	ARV13IG Relief/isolation valve system
18	RC1BIG10 Inert gas regulator
19	GOPROASP Oxygen, acetylene and argon set pressure outlet point system
20	GOPSPFL25C Regulated argon flowmeter outlet point 25 L/min
21	GOPRT Twin argon outlet point with blanking plug
22	RCFL25 Flowmeter 25 L/min RCFL40 Flowmeter 40 L/min
23	GOPROASP Oxygen, acetylene outlet point system

### MANIFOLD SYSTEMS

Shown above are three typical but different manifold systems, showing that manifolds are available for all gases for cylinder pack systems, single cylinders (one "IN USE" one in "RESERVE") or multi-cylinder manifold systems, from 2 x 2 up to 6 x 6. There is also an auto-change system that can be used with cylinders or packs and can also be coupled to the cylinder rail systems.

### HOW TO CALCULATE A MANIFOLD SIZE FOR FUEL GASES, USING ACETYLENE AS AN EXAMPLE

Customer consumes		100 m <sup>3</sup> /week
Number of hours worked weekly		45
Number of m <sup>3</sup> consumed per hour	100/45	2.2
Maximum draw rate per cylinder		0.7 m <sup>3</sup>
Number of cylinders required per bank	2.2/0.7	3.1 say 4
Size manifold required is a 4 x 4	<b>MMTAC4C4C</b>	

### HOW TO CALCULATE A MANIFOLD SIZE FOR INERT WELDING GASES

Customer has 10 welding machines	Each using 15 L/min = 150 L/min	9,000 L/hr or 9 m <sup>3</sup> /hr
Number of hours worked weekly		45
Number of actual welding hours	Say 20% of 45 hours	= 9 hours
Number of m <sup>3</sup> consumed per week	9 m <sup>3</sup> x 9 hours	81 m <sup>3</sup>
Number of cylinders used per week	81 / 8 (average m <sup>3</sup> in a cylinder)	10.125 (say 10)
Recommended manifold size 1 x 1 Pack	<b>MMTIG1P1P</b>	

### HOW TO CALCULATE A MANIFOLD SIZE FOR CARBON DIOXIDE

Customer Consumes	3 cylinders per week	37.5 m <sup>3</sup> /week
Number of hours operated weekly		60
Number of m <sup>3</sup> consumed per hour	37.5/60	0.625
Peak consumption m <sup>3</sup>	Say 1.5 x the average	0.94
Maximum draw rate per cylinder		1 kg/hr (0.53 m <sup>3</sup> /hr)
Number of cylinders required per bank	0.94/0.53	1.77 say 2
Size manifold required is a 2 x 2	<b>MMTCD4C4C</b>	

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