



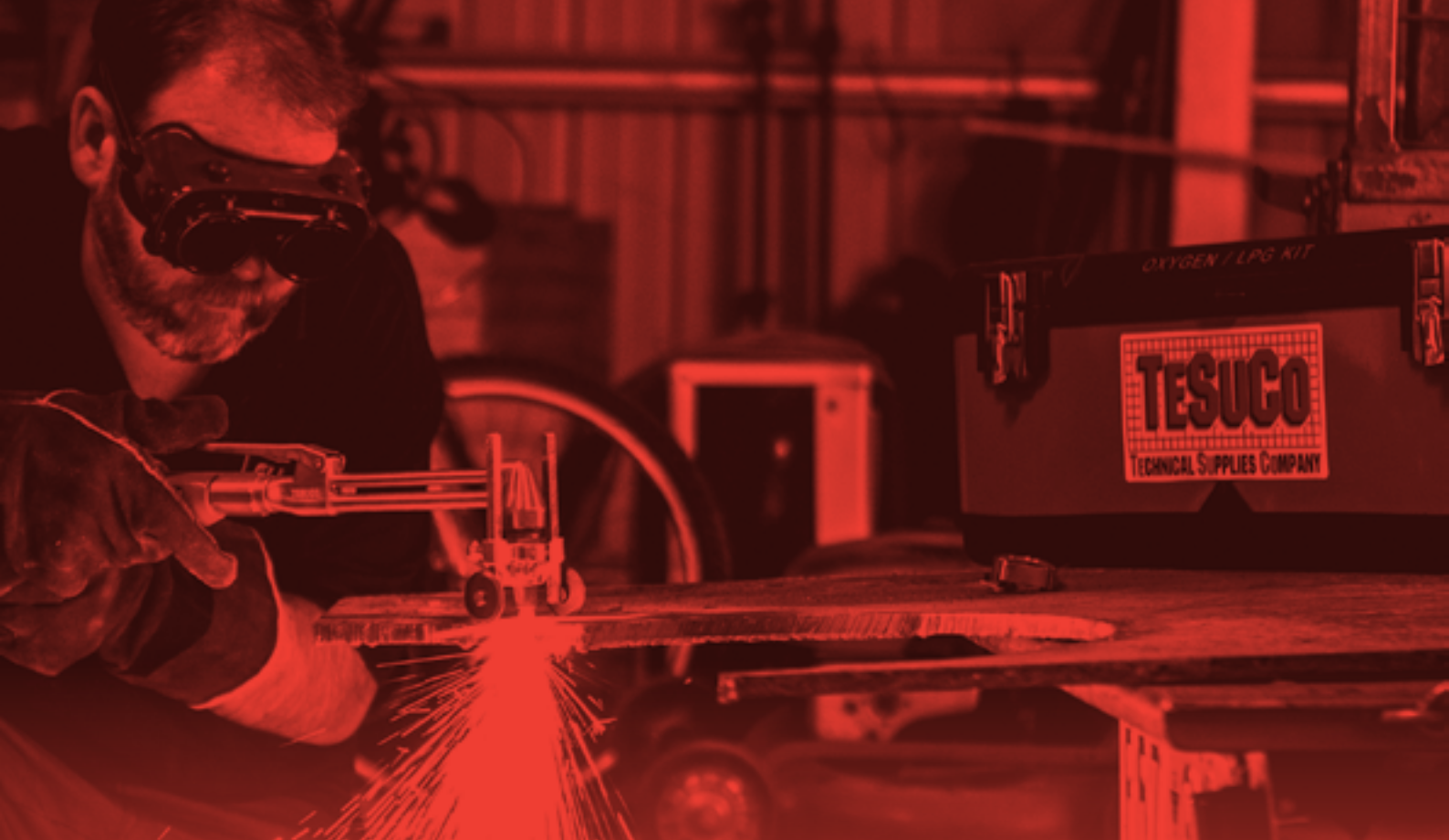
TESUCO
TECHNICAL SUPPLIES COMPANY

Gas Equipment

For Cutting, Gouging,
Welding & Heating

QUALITY GAS EQUIPMENT

www.tesuco.com.au



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 sales@tesuco.com.au

Orders orders@tesuco.com.au

Website www.tesuco.com.au



Only trained operators may use this equipment.



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

Our name Tesuco® comes from Technical Supplies Company.



Australian Standards

There are many Australian standards covering gas equipment, however one of the most important is AS 4839 – “The Safe Use of Portable and Mobile Oxy-Fuel Systems for Welding, Cutting, Heating and Allied Processes”. It covers items like cylinder handling and transportation, gases, hoses and hose length, regulators, flashback arrestors, blowpipes, tips and nozzles and includes a guide on maintenance and testing of the equipment.

For peace of mind Tesuco® equipment conforms to all of the relevant Australian and New Zealand standards. In some products, such as our oxygen regulators, our testing is beyond that of many in the marketplace. Not all oxygen regulator have passed the promoted ignition test (referred to as the bomb test) as listed in AS 4267. To ensure ultimate safety, Tesuco® oxygen regulators have passed this test.

Bottom & Side Entry Regulators

Previously, regulators from most suppliers have only been available in bottom entry. Cylinders, however may have either a top or side outlet valve. To cater for this Tesuco® regulators are available in both bottom and side entry configuration.

This ensures the appropriate regulator can be used to maintain the correct orientation of the regulator and gauges during operation, making it easier to read and adjust pressures.

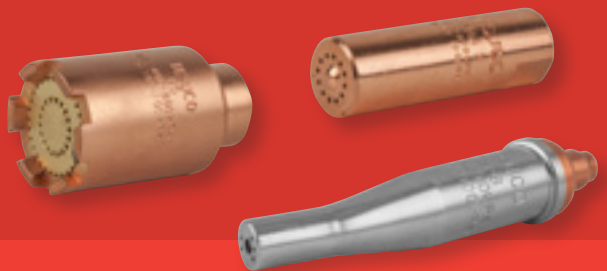


Acetylene Withdrawal Rates

Choice of equipment may be restricted by the size or number of acetylene cylinders you use. Acetylene cylinders must display the maximum withdrawal rate on the cylinder label. Further to this, continuous withdrawal (over 20 minutes) and depletion of cylinder contents will reduce the available withdrawal rate. Exceeding the maximum withdrawal rate of acetylene cylinders may cause flashbacks, serious damage to equipment and/or injury to the operator. The correct cylinder size or number of cylinders must be used relevant to the gas consumption of the tip. To simplify this, flow rate information to safely use each tip/nozzle is supplied in this booklet and a guide for cylinders to be used.

Heating & Gouging Nozzles

Due to the large flow rate of these items, it is not recommended to use a single cylinder, standard flashback arrestors, or 5 mm ID hose. High flow flashback arrestors have part numbers starting with FRH or FTH, 10 mm ID hose is recommended for all heating and gouging applications.



LPG Withdrawal Rates

As with acetylene, flow rate for LPG is restricted by the size of the cylinder used. For example, the maximum continuous draw off @ 21°C for a 45 kg cylinder is 56.6 L/min. As a result it may be dangerous to use some equipment if the gas supply is not sufficient. It is imperative that the operator selects the correct gas supply for the equipment being used. Failure to do this may cause flashbacks, serious damage to equipment and/or injury to the operator.

Hoses

All Tesuco® hoses meet the requirements of AS 1335. 5 mm ID hoses suit welding, brazing and cutting while 10 mm ID hoses suit gouging and heating applications due to flow rates.



OXYGEN



Check the cylinder flowrate before using any gas equipment.



RC1BOX10

OR



RC1SOX10
RC1SOX4.5

ACETYLENE



RC1BAC1.5

OR



RC1SAC1.5

OXYGEN



Check the cylinder flowrate before using any gas equipment.



RC1BOX10

OR



RC1SOX10
RC1SOX4.5

LPG



RC1RLP4

DP	FRSOD	
DP	FRSQD4D	
BX	FRSOR	
DP	FRHOD	
BX	FRHOR	

5 mm ID TWIN HOSE

GWTWOA5
GWTWOA10
GWTWOA15
GWTWOA20

DP	FTSOD	
DP	FTSQD1D	
BX	FTMO	
BX	FTMQD1	
DP	FTHOD	

DP	FRSFD	
DP	FRSQD4D	
BX	FRSFR	
DP	FRHFD	
BX	FRHFR	

10 mm ID TWIN HOSE

GWTW10A10
GWTW10A15

Note: When heating or gouging, high flow (FRH-/FTH-) model flashback arrestors and 10 mm twin hoses must be used.

DP	FTSFD	
DP	FTSFQD1D	
BX	FTMF	
BX	FTMFQD1	
DP	FTHFD	

DP	FRSOD	
DP	FRSQD4D	
BX	FRSOR	
DP	FRHOD	
BX	FRHOR	

5 mm ID TWIN HOSE

GWTWOL5
GWTWOL10
GWTWOL15
GWTWOL20

DP	FTSOD	
DP	FTSQD1D	
BX	FTMO	
BX	FTMQD1	
BX	FTHOD	

DP	FRSFD	
DP	FRSQD4D	
BX	FRSFR	
DP	FRHFD	
BX	FRHFR	

10 mm ID TWIN HOSE

GWTW10L10
GWTW10L15

Note: When heating or gouging, high flow (FRH-/FTH-) model flashback arrestors and 10 mm twin hoses must be used.

DP	FTSFD	
DP	FTSFQD1D	
BX	FTMF	
BX	FTMFQD1	
BX	FTHFD	

WELDING

CUTTING GOUGING

- GWGNA32
- GWGNA32S
- * ■ GWGNA48

**Not recommended on single cylinders. Manifold systems only.*



- ▲ ● ■ GWCNA06
- ▲ ● ■ GWCNA08
- ■ GWCNA12
- GWCNA15
- GWCNA20



- ▲ ● ■ GWCNA06B
- ▲ ● ■ GWCNA08B
- ■ GWCNA12B
- GWCNA15B
- GWCNA20B



- ▲ ● ■ GWSMNA6



HEATING

GWHTA1
GWHTA2



GWHS735

GWHS700

GWHS450

BRAZING

CUTTING GOUGING

GWGNL32
GWGNL32S
GWGNL48



GWCNL06
GWCNL08
GWCNL12
GWCNL15
GWCNL20



HEATING

GWHTLH1
GWHTLH2
GWHTLH3
GWHTLH4
GWHTLH5



GWHTL1
GWHTL2
GWHTL3
GWHTL4



GWHBA

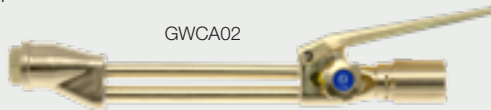
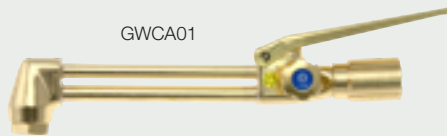
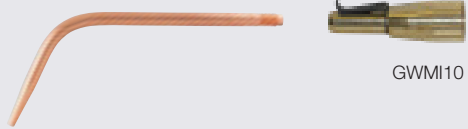


GWHS735

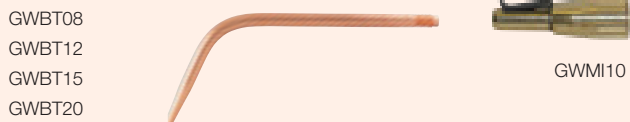
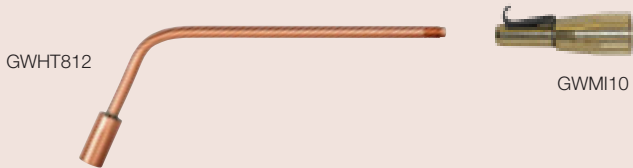
GWHS700

GWHS450

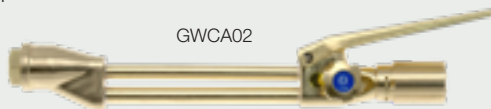
- ▲ ■ GWWT06
- ▲ ■ GWWT08
- ■ GWWT10
- ■ GWWT12
- ■ GWWT15
- GWWT20



Cutting capacity up to 150 mm



- GWBT08
- GWBT12
- GWBT15
- GWBT20



Cutting capacity up to 150 mm



Note: GWMI13LN to be used for heating heads GWHTL3, GWHTL4 and GWHTLH3, GWHTLH4 and GWHTLH5.

OXYGEN/ACETYLENE



GWWH01

Acetylene cylinder guide for safe use, refer to your gas supplier.

G = ■ E = ● D = ▲

The available withdrawal rate of acetylene from a cylinder limits the equipment that may be used. It is the operators responsibility to choose correct equipment.

Flashback arrestors must be fitted to both the regulator and blowpipe, as stated in AS 4839 to protect the operator and the equipment.

OXYGEN/LPG



GWWH01

The available withdrawal rate of LPG from a cylinder limits the equipment that may be used. It is the operators responsibility to choose correct equipment.

Flashback arrestors must be fitted to both the regulator and blowpipe, as stated in AS 4839 to protect the operator and the equipment.

TRIPLE FLINT LIGHTER

Tesuco® triple flint lighter is designed for safe use to light any gas welding, brazing, heating and cutting tip or nozzle.

The cup pockets the gas for easy and quick lighting. It has three flints that can be rotated as one wears out. Replacement triple flints are available in four pack.



PART NO	DESCRIPTION	QTY
GWTF	Flint gun triple flint	1
GWTFR	Triple flint replacement	4

WELDING GOGGLES

Shade 5

Tesuco® goggles are the flip up design, which can be operated using one hand. When the shaded lenses are flipped up the user is still protected by a set of clear lenses. This also saves having to remove them in-between welding, brazing and cutting operations.

Shade 5 goggles are required when using any gas welding, brazing, heating and cutting applications to protect your eyes.



PART NO
GWG

SPARKI

Hands free igniter for welding and cutting torches. Simply attach to the work bench or anywhere that is metal on the work site, turn on the fuel gas then push the tip into the igniter to light the flame and then adjust the oxygen at the same time without the need to hold the lighter.

PART NO	DESCRIPTION
SPT031	30 mm Magnetic base
SPT051	50 mm Magnetic base
SPT101	100 mm Steel base

Sparki



SPT031



SPT051



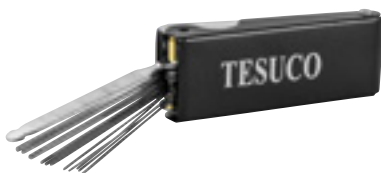
SPT101

**NO
BATTERIES
REQUIRED**

TIP CLEANING SET

Tesuco® cleaner set are design to be used on all tips and nozzles.

During operation, cutting, heating, brazing and welding nozzles and tips can become blocked with slag deposits. The tip cleaning set comprises various sizes of round files to clear the hole of debris for longer life.



PART NO
GWTC

COMBINATION SPANNER



PART NO
GWS

NOZZLE NUT



PART NO	DESCRIPTION
SPCANN	
SPCANNND	Twin pack

INSTRUCTION MANUAL

Gas Equipment



PART NO
GWKIM

REGULATOR GAUGE PROTECTORS

Twin Pack



PART NO	COLOUR
SPRGRPD	Red
SPRGPBD	Black

REGULATOR OUTLET 90° ELBOW



G-AD90RH58

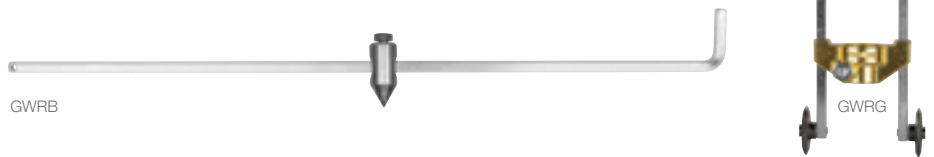


G-AD90LH58

PART NO	INLET	OUTLET
G-AD90RH58	5/8-18UNF LH Female	5/8-18UNF LH Male
G-AD90LH58	5/8-18UNF LH Female	5/8-18UNF LH Male

ROLLER GUIDE & RADIUS BAR

PART NO	DESCRIPTION
GWRB	Radius bar
GWRG	Roller guide
GWRGR	Roller guide with radius bar



HOSE CONNECTION & JOINER



GWLP265



GWLP240LH



GWLP112RH



GWHCF



GWHC34



GWHC35

PART NO	SIZE	DESCRIPTION	TYPE
GWLP112RH	5 mm	Right hand	LP112
GWLP240LH	5 mm	Left hand	LP240
GWLP265	5 mm		LP265
GWHCF	5 mm	Left hand	
GWHCF10	10 mm	Left hand	
GWHCF10	10 mm	Right hand	
GWHC34		Right hand hose joiner	WB34
GWHC35		Left hand hose joiner	WB35

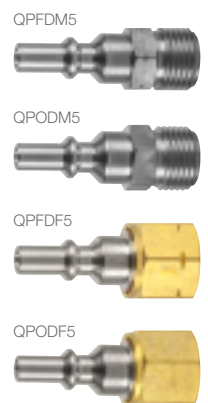
FLASHBACK ARRESTOR WITH Q/A COUPLER HOSE JOINER



PART NO	DESCRIPTION
FISFQD4	Inline Fuel Gas
FISOQD4	Inline Oxygen

COUPLING PINS TO EN 561

PART NO	DESCRIPTION	TYPE
QPFD5	Fuel Gas Male	LH
QPODM5	Oxygen Male	RH
QPFD5	Fuel Gas Female	LH
QPODF5	Oxygen Female	RH



OXYGEN/ACETYLENE

Style 551



GWWT15

PART NO	TIP SIZE	PRESSURE (kPa)		TYPICAL CONSUMPTION (L/min)	
		OXYGEN	ACETYLENE	OXYGEN / FUEL GAS	
GWWT06	6	50	50	1.5	■ ● ▲
GWWT08	8	50	50	2	■ ● ▲
GWWT10	10	50	50	3	■ ●
GWWT12	12	50	50	4	■ ●
GWWT15	15	50	50	6.5	■ ●
GWWT20	20	50	50	12	■

Acetylene cylinder guide for safe use, refer to your gas supplier. **G = ■ E = ● D = ▲**

OXYGEN/LPG

Style 554



GWWT15

PART NO	TIP SIZE	PRESSURE (kPa)		TYPICAL CONSUMPTION (L/min)	
		OXYGEN	LPG	OXYGEN / FUEL GAS	
GWBT08	8	50	50	0.5	
GWBT12	12	50	50	2	
GWBT15	15	50	50	3	
GWBT20	20	50	50	5	

Selection Guide

Heating Nozzles

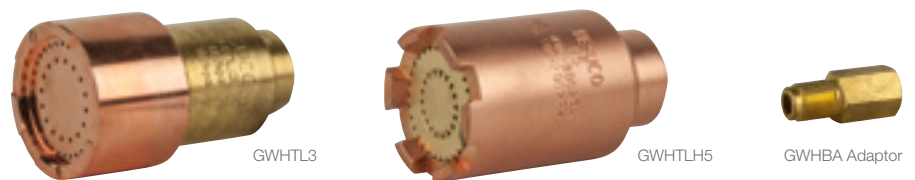
OXYGEN/ACETYLENE



PART NO	TIP SIZE	PRESSURE (kPa)		TYPICAL CONSUMPTION (L/min)		HEAT OUTPUT (MJ/h)
		OXYGEN	ACETYLENE	OXYGEN	FUEL GAS	
GWHT812	8 x 12	150	100	45-58	41-55	180
GWHTA1	8 x 12	150	100	45-58	41-55	180
GWHTA2	12 x 12	200	100	74	65	215

i Typical consumption rates have been listed. These may vary depending on settings by the operator and environmental conditions.

OXYGEN/LPG



PART NO	TIP SIZE	PRESSURE (kPa)		TYPICAL CONSUMPTION (L/min)		HEAT OUTPUT (MJ/h)
		OXYGEN	LPG	OXYGEN	FUEL GAS	
GWHTL1	18 x 12	500	100	200	50	280
GWHTL2	36 x 12	600	100	300	75	420
GWHTL3	48 x 12	600	100	400	100	560
GWHTL4	48 x 15	1000	300	600	150	840
GWHTLH1	H1	100-200	50	67-117	17-33	186
GWHTLH2	H2	200-300	50	98-213	25-53	298
GWHTLH3	H3	200-500	100	142-382	37-95	532
GWHTLH4	H4	300-600	100	233-473	60-118	663
GWHTLH5	H5	400-800	100-200	283-662	72-167	934
GWHBA	Adaptor – must be used in GWHTLH1 to 5					

i Typical consumption rates have been listed. These may vary depending on settings by the operator and environmental conditions.

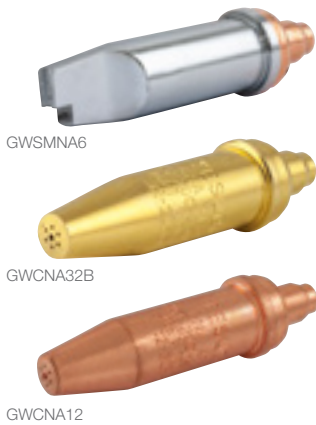
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OXYGEN/ACETYLENE

Copper oxygen/acetylene cutting nozzles perform the same as traditional brass ones but have the advantage of better heat dissipation and less slag adherence. Nozzles are marked according to the requirements in AS 4839.

Maximum cutting with a GWCA01 and GWCA02 cutting attachment is 150 mm. For cutting up to 300 mm, use Tesuco® one piece cutting torches.



PART NO	MAX PLATE THICKNESS (mm)	NOZZLE SIZE	PRESSURE (kPa)		TYPICAL CONSUMPTION (L/min)		G	E	D
			OXYGEN	ACETYLENE	OXYGEN	ACETYLENE			
GWSMNA6	Sheet metal	6	200	100	9	1.5	■	●	▲
GWCNA06 (B)	6	6	200	100	11	2	■	●	▲
GWCNA08 (B)	10	8	200	100	20	3.5	■	●	▲
GWCNA12 (B)	20	12	250	100	38	4	■	●	
GWCNA15 (B)	75	15	350	100	75	7	■		
GWCNA20 (B)	125	20	400	100	134	9	■		

Note: Add 'B' to part number for brass finish.

Acetylene cylinder guide for safe use, refer to your gas supplier. G = ■ E = ● D = ▲

SCAN HERE



OXYGEN/LPG

Oxygen/LPG cutting nozzles perform extremely well for certain applications. Due to less carbon in LPG, there is less slag adherence to the bottom of the cut. Nozzles are marked according to the requirements in AS 4839.

Maximum cutting with a GWCA01 and GWCA02 cutting attachment is 150 mm. For cutting up to 300 mm, use Tesuco® one piece cutting torches.



PART NO	MAX PLATE THICKNESS (mm)	NOZZLE SIZE	PRESSURE (kPa)		TYPICAL CONSUMPTION (L/min)	
			OXYGEN	LPG	OXYGEN	LPG
GWCNL06	6	6	200	100	17	2
GWCNL08	12	8	200	100	30	3.5
GWCNL12	20	12	250	100	68	4.5
GWCNL15	75	15	400	100	111	6
GWCNL20	125	20	400	100	171	6.5

Note: Typical consumption rates have been listed, but may vary depending on environmental conditions.

i Maximum plate thickness for a cutting attachment is 150 mm.

OXYGEN/ACETYLENE



GWGNA32

PART NO	TYPE	NOZZLE SIZE	PRESSURE (kPa)		TYPICAL CONSUMPTION (L/min)		
			OXYGEN	ACETYLENE	OXYGEN	ACETYLENE	
GWGNA32	Bent	32	500	100	61	15	■
GWGNA32S	Straight	32	500	100	61	15	■
GWGNA48	Bent	48	600	100	85	18	

Acetylene cylinder guide for safe use, refer to your gas supplier. **G = ■ E = ● D = ▲**

OXYGEN/LPG



GWGNL32

PART NO	TYPE	NOZZLE SIZE	PRESSURE (kPa)		TYPICAL CONSUMPTION (L/min)	
			OXYGEN	LPG	OXYGEN	LPG
GWGNL32	Bent	32	500	100	94	12
GWGNL32S	Straight	32	500	100	94	12
GWGNL48	Bent	48	600	100	120	13



Typical consumption rates have been listed. These may vary depending on settings by the operator and environmental conditions.

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

- 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 extension tube supplied for accurate application
- Approved by DVGW to DIN EN 14291

SPECIFICATIONS

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





GWKOA

PART NO	DESCRIPTION	GWKOA	GWKOAS
GWKITE	Heavy duty red kit box with equipment tray	•	•
RC1BOX10	Oxygen regulator – Bottom entry	•	
RC1SOX10	Oxygen regulator – Side entry		•
RC1BAC1.5	Acetylene regulator – Bottom entry	•	
RC1SAC1.5	Acetylene regulator – Side entry		•
FRSFD	Flashback arrestor, Regulator end, Standard flow, Fuel Gas	•	•
FRSOD	Flashback arrestor, Regulator end, Standard flow, Oxygen	•	•
GWTWOA10	Twin gas hose 10 m – Oxygen/Acetylene	•	•
FTSFD	Flashback arrestor, Torch end, Standard flow, Fuel Gas	•	•
FTSOD	Flashback arrestor, Torch end, Standard flow, Oxygen	•	•
GWWH01	Blowpipe	•	•
GWMI10	Mixer 10 mm	•	•
GWWT10	Welding tip, Oxygen/Acetylene, Size 10	•	•
GWWT12	Welding tip, Oxygen/Acetylene, Size 12	•	•
GWWT15	Welding tip, Oxygen/Acetylene, Size 15	•	•
GWWT20	Welding tip, Oxygen/Acetylene, Size 20	•	•
GWCA01	Cutting attachment	•	•
GWCNA08	Cutting nozzle, Oxygen/Acetylene, Size 8	•	•
GWCNA12	Cutting nozzle, Oxygen/Acetylene, Size 12	•	•
GWCNA15	Cutting nozzle, Oxygen/Acetylene, Size 15	•	•
GWRB	Radius bar and pivot	•	•
GWRG	Roller guide	•	•
GWG	Welding goggles	•	•
GWTF	Flint lighter	•	•
GWTC	Tip cleaners	•	•
GWS	Combination spanner	•	•
GWKIM	Instruction manual for gas equipment	•	•

Gas Equipment

Oxygen/LPG Kit



PART NO	DESCRIPTION	GWKOL	GWKOLS
GWKITE	Heavy duty red kit box with equipment tray	•	•
RC1BOX10	Oxygen regulator – Bottom entry	•	
RC1SOX10	Oxygen regulator – Side entry		•
RC1RLP4	LPG regulator – Rear entry	•	•
FRSFD	Flashback arrestor, Regulator end, Standard flow, Fuel Gas	•	•
FRSOD	Flashback arrestor, Regulator end, Standard flow, Oxygen	•	•
GWTWOL10	Twin gas hose 10 m – Oxygen/LPG	•	•
FTSFD	Flashback arrestor, Torch end, Standard flow, Fuel Gas	•	•
FTSOD	Flashback arrestor, Torch end, Standard flow, Oxygen	•	•
GWWH01	Blowpipe	•	•
GWMI10	Mixer 10 mm	•	•
GWBT08	Brazing tip, Oxygen/LPG, Size 8	•	•
GWBT12	Brazing tip, Oxygen/LPG, Size 12	•	•
GWBT15	Brazing tip, Oxygen/LPG, Size 15	•	•
GWBT20	Brazing tip, Oxygen/LPG, Size 20	•	•
GWCA01	Cutting attachment	•	•
GWCNL08	Cutting nozzle, Oxygen/LPG, Size 8	•	•
GWCNL12	Cutting nozzle, Oxygen/LPG, Size 12	•	•
GWCNL15	Cutting nozzle, Oxygen/LPG, Size 15	•	•
GWRB	Radius bar and pivot	•	•
GWRG	Roller guide	•	•
GWG	Welding goggles	•	•
GWTF	Flint lighter	•	•
GWTC	Tip cleaners	•	•
GWS	Combination spanner	•	•
GWKIM	Instruction manual for gas equipment	•	•

TESUCO

TECHNICAL SUPPLIES COMPANY

HOSPITALITY

GAS SAFETY

INDUSTRIAL

SCIENTIFIC

MEDICAL

PHONE **+61 2 9737 9937**
EMAIL **sales@tesuco.com.au**
WEB **www.tesuco.com.au**

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The ultimate responsibility for safe use of the equipment lies with the operator. In the interest of constant improvement in quality and design, product specifications may change at any time, without notice. E&OE

