A person wearing a white protective suit is kneeling in a trench, working on a pipe. To the left, a propane tank is connected to a hose. A toolbox and other equipment are scattered around the work area. The entire scene is bathed in a red light, creating a dramatic and industrial atmosphere.

TESUCO

TECHNICAL SUPPLIES COMPANY

**Air-Propane
Equipment**

QUALITY GAS EQUIPMENT

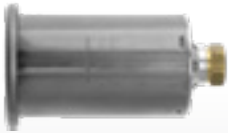
www.tesuco.com.au



SSB80-SPX



SSB80



SSB60



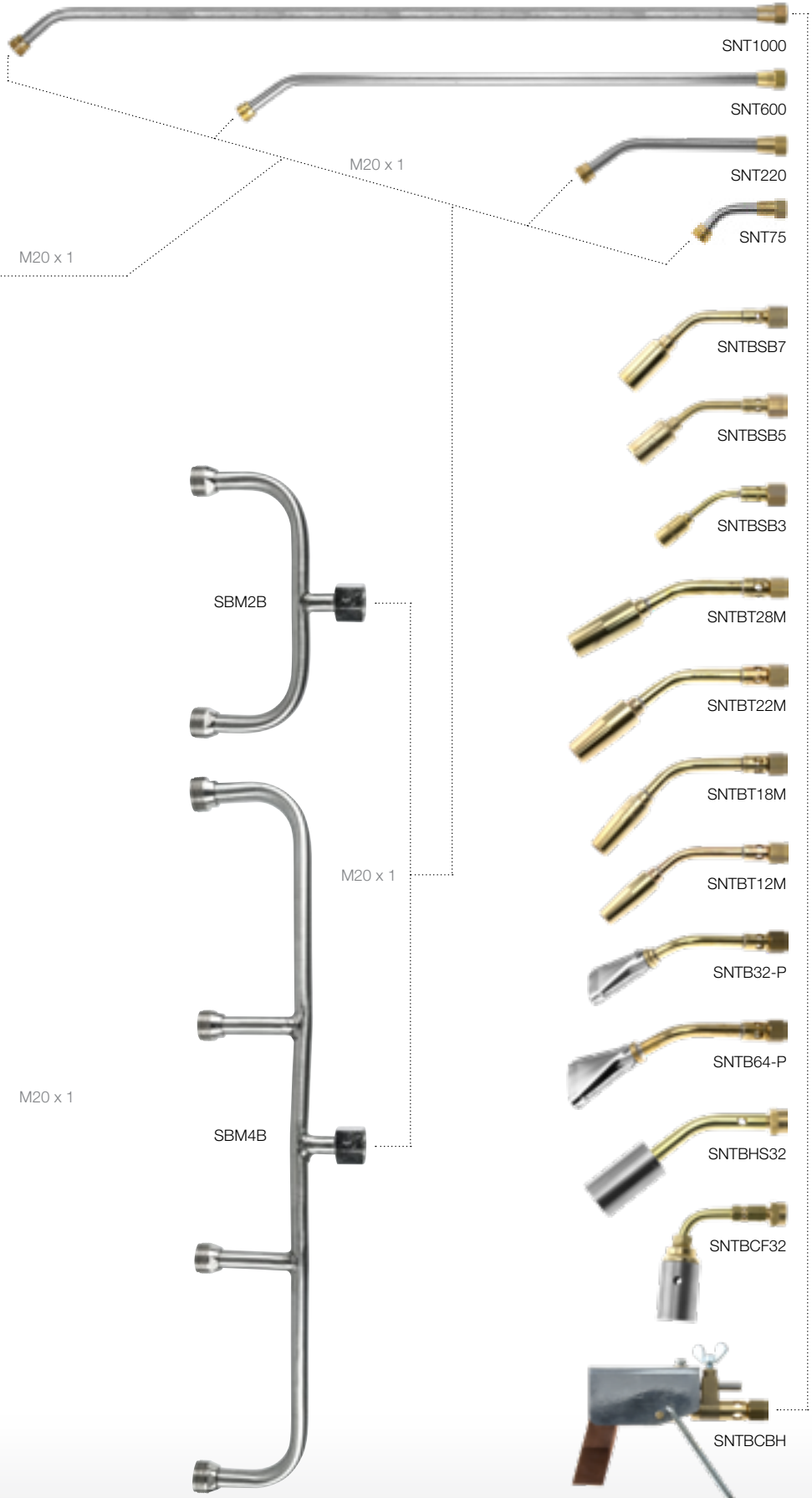
SSB50



SSB40



SSB30



Air-Propane Combination Chart



K41030



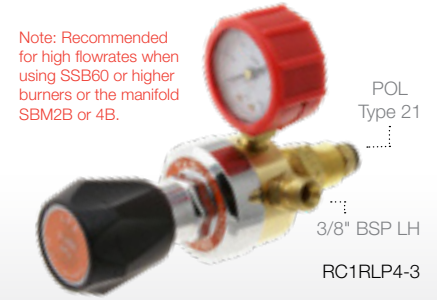
K41000



3/8" BSP LH

3/8" BSP LH

- SH2-3/8
- SH4-3/8
- SH6-3/8
- SH10-3/8
- SH20-3/8



Note: Recommended for high flowrates when using SSB60 or higher burners or the manifold SBM2B or 4B.

POL Type 21

3/8" BSP LH

RC1RLP4-3



3/8" BSP LH

POL Type 21

K744301



3/8" BSP LH

3/8" BSP LH

K44301

GAS STOP ANTI-LEAK SYSTEM



SHP01-OM



SHP02-OM



22 x 1.5 LH FM

- SOMGSH 2
- SOMGSH 4
- SOMGSH 6



3/8" BSP LH

M22 x 1.5 LH M

SOGS38



POL Type 21

M22 x 1.5 LH M

SOGSPOL



REGULATORS

The AS 4267 compliant RC1RLP4-3 model LPG regulator has a high flowrate and is designed for use with the complete range of burners and manifolds. Rear entry design ensures the regulator will fit all cylinders. Fully adjustable pressure range from 0 – 400 kPa with a readable delivery pressure gauge fitted with a gauge protector.

SPECIFICATIONS

SPECIFICATIONS	RC1RLP4-3
Inlet connection	POL Type 21
Outlet connection	G3/8"



MINI REGULATOR

The LPG mini regulator has two designs. The K744301 model is designed with a "POL" type inlet connection. The K44301 model is designed with a 3/8" 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.

SPECIFICATIONS

SPECIFICATIONS	K744301	K44301
Inlet connection	POL Type 21	G3/8" LH FM
Outlet connection	G3/8" LH M	G3/8" LH M



HOSE SET

Complete

Hoses are manufactured to AS/NZ 1869 standard, hose and hose assemblies for liquefied petroleum gases (LP Gas), natural gas and town gas, AGA* certified product Certification N^o: 8076. All hose assemblies are factory fitted with G3/8" LH connections designed to fit standard air propane equipment.

*AGA – The Australian Gas Association

SPECIFICATIONS

SPECIFICATIONS	SH2-3/8	SH4-3/8	SH6-3/8	SH10-3/8	SH20-3/8
Size (m)	2	4	6	10	20
Hose I.D (mm)	6.3				
Connection	G3/8" LH FM				
MPA (kPa)	2.6 (2,600)				

SH2-3/8



Due to AGA approval, hoses cannot be repaired if damaged.



K41030



K41000

TORCH HANDLE

These torch handles are ergonomically designed with a shock resistant grip which fits comfortably and securely into the hand. An integrated solid brass control valve and adjustment knob allows fine adjustment of the flame. Tesuco also supplies an economiser torch handle with an independently adjustable pilot flame control valve. This feature saves both gas and work time, as gas consumption is reduced by up to 97% when the economiser valve is in use.

SPECIFICATIONS	K41030	K41000
Type	Standard	Economiser
Inlet connection (mm)	G3/8" LH	
Outlet connection	M14 x 1	



SNTBT12M

VORTEX

Neck Tube Burners

Produce a cyclone rotating vortex flame to enable target heat to be applied to the working surface. They are ideally suited for pipe soldering, soft soldering and brazing, bending tubes, small forging, thawing frozen pipes, annealing and tempering.

SPECIFICATIONS	SNTBT12M	SNTBT18M	SNTBT22M	SNTBT28M
Size (mm)	12	18	22	28
Inlet connection (mm)	M14 x 1			
Max. flame length (cm)	10	12	14	17
Gas consumption (g/h @ 150 kPa)	120	150	250	360
Heat effect (kJ)	1,460	1,830	3,050	4,390



SNBTSB3

ULTRA PINPOINT

Neck Tube Burners

Extremely efficient fine and precise needle flame with a pronounced inner blue cone. This is an excellent burner for goldsmiths, electrical soldering, small brazing and silver soldering.

SPECIFICATIONS	SNBTSB3	SNBTSB5	SNBTSB7
Size (mm)	3	5	7
Inlet connection (mm)	M14 x 1		
Max. flame length (cm)	15	20	25
Gas consumption (g/h @ 150 kPa)	35	115	150
Heat effect (kJ)	420	1,400	1,830



SNB32-P

FLAT FLAME

Neck Tube Burners

The intense broad, flat, fantail flame is designed for removing paint and varnishes from timber and metal surfaces, grain patterning on timber, adhesive removal, surface drying and ski waxing.

SPECIFICATIONS	SNB32-P	SNB64-P
Size (mm)	32	64
Inlet connection (mm)	M14 x 1	
Max. flame length (cm)	10 x 10	20 x 20
Gas consumption (g/h @ 150 kPa)	115	250
Heat effect (kJ)	1,400	3,050



SOFT FLAME HEAT SHRINK

Neck Tube Burner

This efficient, soft sweeping, windproof flame with a pronounced yellow tip is visible when working in daylight. Applications include medium and heavy walled insulated tubing for electrical and telecommunication, cable termination systems and busbar tubing.

SPECIFICATIONS	SNBHS32
Size (mm)	32
Inlet connection (mm)	M14 x 1
Max. flame length (cm)	55
Gas consumption (g/h @ 150 kPa)	800
Heat effect (kJ)	9,250



COMPOUND FLAME

Neck Tube Burner

Produce a cyclone rotating vortex flame to enable target heat to be applied to the working surface. They are ideally suited for pipe soldering, soft soldering and brazing, bending tubes, small forging, thawing frozen pipes, annealing and tempering.

SPECIFICATIONS

SNTBCF32

Size (mm)	32
Inlet connection (mm)	M14 x 1
Max. flame length (cm)	30
Gas consumption (g/h @ 150 kPa)	1,500
Heat effect (kJ)	17,350



SOLDERING

Neck Tube Burner

Applications include heat shrinking, adhesive removal, bending plastic tubes, insulation work and soldering. The soldering burner is fitted with a 350 g hammer shape bit. Different bits available in differing weights, either straight or chisel, to suit the different soldering applications.

SPECIFICATIONS

SNTBCBH

Inlet connection (mm)	M14 x 1 RH FM
Gas consumption (g/h @ 150 kPa)	150

SOLDERING BITS

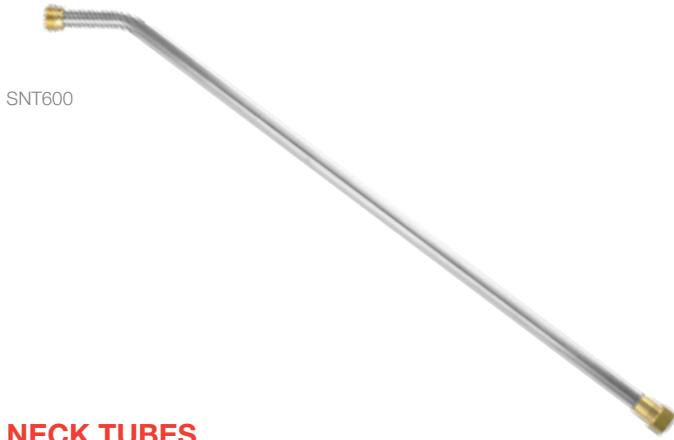
The solder bits are for use with the soldering burner attachment and allow for different types of soldering in different positions.

SPECIFICATIONS

SCBB250 SCBB350 SCBB500 SCBS250 SCBS350

Size (g)	250	350	500	250	350
Shape	Hammer	Hammer	Hammer		
Type				Straight	Straight





SNT600

NECK TUBES

Stainless Steel

Designed for use with the standard flame compound burners, SSB30, SSB40, SSB50, SSB60, SS80 and SSB80-SPX. Longer lengths are available to increase the distance between the burner and the handle reducing the effect of radiant heat back onto the hand during operation.

SPECIFICATIONS

	SNT 75	SNT220	SNT600	SNT1000
Size (mm)	75	220	600	1000
Inlet connection (mm)			M14 x 1	
Outlet connection (mm)			M20 x 1	



SBM4B

SBM2B

BURNER MANIFOLD

To Suit Broad Flame Burners

The burner manifolds are designed for use with the range of high capacity burners. When using these manifolds, it is important to ensure that the equipment being used, especially the regulator will provide sufficient gas flow.

SPECIFICATIONS

	SBM2B	SBM4B
Number of burners	2	4
Inlet connection (mm)	M20 x 1 RH FM	
Outlet connection (mm)	M20 x 1 RH M	



SSB80

STANDARD FLAME

High Capacity Burners

Highly effective full bodied windproof flames, suitable for those applications requiring high manageable heat output to a large surface area. They are ideal for preheating steels prior to welding, flooring, roofing and asphalt work, ceramic tile removal and automotive applications.

SSB80-SPX body, base plate and nut are fully stainless steel.

SPECIFICATIONS

	SSB30	SSB40	SSB50	SSB60	SSB80	SSB80-SPX
Size (mm)	30	40	50	60	80	80
Inlet connection	M20 x 1 FM					
Max. flame length (cm)	20	40	50	60	80	80
Gas consumption (g/h @ 150 kPa)	570	2,000	2,150	5,000	7,000	7,000
Heat effect (kJ)	6,954	24,400	26,230	61,600	85,400	85,400



HEATING KIT

Part No: STK41EXTRA

PART NO	DESCRIPTION
K41000	Torch handle economiser
SNT600	600 mm s/steel neck tube
SSB80	80 mm compound burner
SH6-3/8	6 m hose set complete
RC1RLP4-3	LPG regulator



HEATING KIT

Part No: STK442

PART NO	DESCRIPTION
K41000	Torch handle economiser
SNT220	220 mm s/steel neck tube
SSB40	40 mm compound burner
SH4-3/8	4 m hose set complete



HEATING KIT

Part No: STKC

PART NO	DESCRIPTION
K41000	Torch handle economiser
SNT220	220 mm s/steel neck tube
SSB50	50 mm compound burner
SH2-3/8	2 m hose set complete
K744301	Mini LPG regulator

QUICK CONNECTIONS

Quick-Action Couplers

Allows for safe interruption of the gas flow by automatic gas cut-off when disconnection for the pin.

Independently tested by BAM to EN 561, ISO 7289 ensures the product is manufactured to the highest standards by Ibeda. The coupling units are sold complete with the pins and spare pins can be purchase separately.

Note: Threads are in accordance with EN 560 and ISO 3253



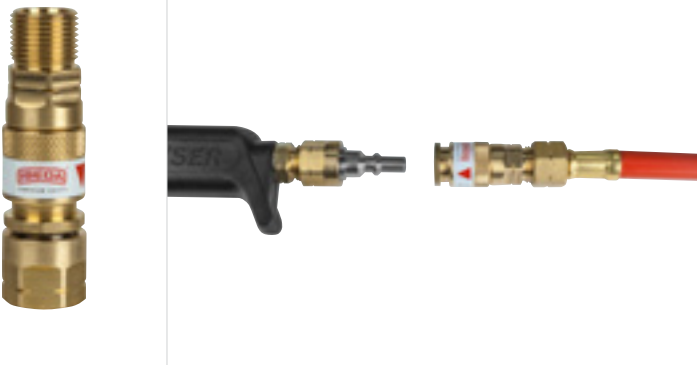
REGULATOR END

Fuel Gas

The gas is stops from flowing into the hose once the coupling pin is released. This allows you to safely remove the hose set for transport or storage.

SPECIFICATIONS

Inlet connection	G3/8" FM
Outlet connection	Pin G3/8" M



TORCH HANDLE

Fuel Gas

Designed to stop the flow of gas once the coupling is released from the pin, this will automatically cut-off the supply to the torch handle and retain the gas in the hose. The coupler also allows the torch handle to rotate without kinking the hose.

SPECIFICATIONS

Inlet connection	G3/8" M
Outlet connection	Pin G3/8" FM

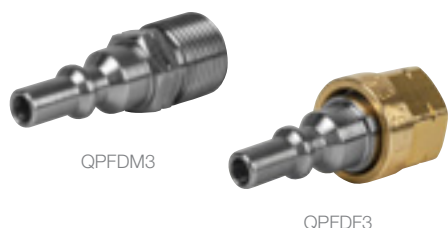


HOSE JOINER

The Quick Action Hose Joiner allows you to extend the hoses length quickly. Having smaller length of hoses make it easy to control the hose from becoming tangled or kinked.

SPECIFICATIONS

Inlet connection	G3/8" M
Outlet connection	Pin G3/8" M



COUPLING PIN

Fuel Gas

Note: Threads are in accordance with EN 560 and ISO 3253

SPECIFICATIONS

	QPFDM3	QPFDF3
Outlet connection	Pin G3/8" M	Pin G3/8" FM

FLASHBACKS WITH AIR-PROPANE EQUIPMENT

To have combustion, three elements are required: fuel, heat (ignition source) and oxygen. The Tesuco range of air-propane equipment runs off cylinders of LPG only and is not to be used with compressed air or oxygen. As a result, the oxygen obtained by the equipment is drawn from atmosphere and therefore, fire is only possible where the three elements of combustion are available - that is, at the nozzle of the burners. Flashback arrestors are not required to be used on the air-propane equipment where compressed air or oxygen is not used, as flashbacks cannot occur.

HAZARDS AND PRECAUTIONS

Even though flashbacks cannot occur with air-propane equipment as detailed above, hazards still exist. Just 4% LPG in air is explosive and being heavier than air, can build up in pits or confined areas should there be any leaks or if unlit equipment is left on. All equipment should be checked prior to operation to ensure that there is no damage, fully leak tested with the appropriate leak detection spray Gas Control (OTLDS) before lighting and shut down according to the manufacturer's instructions.

Tesuco's range of Gas Stop equipment aides in ensuring that there are no leaks from the regulator to the handpiece, shutting of gas flow in the presence of the smallest of leak due to hose damage or loose connection between the regulator and hose or between the hose and the handpiece.

Details about the Gas Stop Anti-Leak System are on pages 11 and 12.



REGULATORS

The Gas Stop regulators have a special two stage design that only will allow gas to flow, once the outer hose of the system is pressurised. Any loss of pressure will shut off the gas supply from the regulator outlet.

SPECIFICATIONS	SOGS38	SOGSPOL
Inlet connection	G3/8" LH FM	POL Type 21
Outlet connection	M22 x 1.5 LH M	M22 x 1.5 LH M
Max flowrate (kg/h)	7	7

Note: Large flowrates can be achieved by using a different model and hose system.



HOSES

The hoses for the Gas Stop Integrated Anti-Leakage System have a unique hose in hose design. Any pressure difference between the two gas paths caused by loose connections or hose damage will cause the gas flow to be terminated at the regulator. They are available in different lengths.

SPECIFICATIONS	SOMGSH 2	SOMGSH 4	SOMGSH 6
Size (m)	2	4	6
Connection (mm)	22 x 1.5 LH FM		

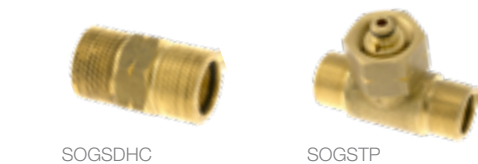
SOMGSH 2



TORCH HANDLE

The Gas Stop torch handles have the special inlet connection to suit the double Gas Stop hose and must be used as part of the Gas Stop system.

SPECIFICATIONS	SHP01-OM	SHP02-OM
Type	Standard	Economiser
Inlet connection (mm)	M22 x 1.5	
Outlet connection (mm)	M14 x 1	



CONNECTORS

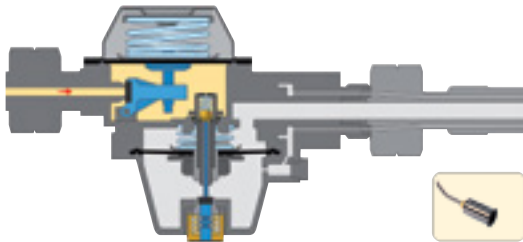
These are used to join hoses, split supply to multiple applications and to connect equipment not originally designed for use with this system.

SPECIFICATIONS	SOGSDHC	SOGSTP
Description	Intermediate coupling	T-piece connection
Inlet connection (mm)	M22 x 1.5 LH M	M22 x 1.5 LH FM
Outlet connection (mm)	M22 x 1.5 LH M	M22 x 1.5 LH M

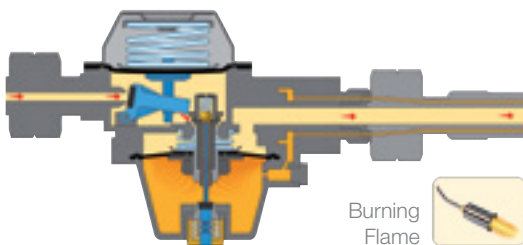
Note: Connections to fit other equipment are available.

Air-Propane Gas Stop Anti-Leak Equipment

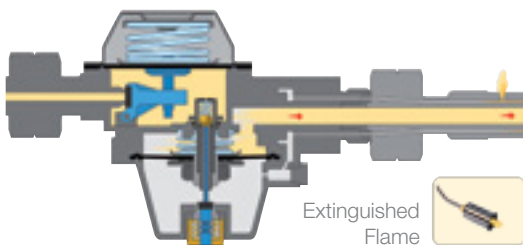
FUNCTION



Open the cylinder valve. This allows the gas to flow to the valve seat.



By pressing the filling knob, gas enters into the outer hose chamber and into the inner hose. The burner can be ignited.



The Gas Stop will automatically stop the main gas supply from the cylinder if the hoses are cut in anyway, hose are burnt through or loose hose connections at either the regulator outlet or torch handle inlet.

Typical Application

Ultimate protection when working in confined spaces, underground or pits.





BURNER TROLLEYS

To Suit Broad Flame Burners

Burner trolleys are designed for use with the range of high capacity burners. When using these trolleys, it is important to ensure that the equipment being used, especially the regulator will provide sufficient gas flow.

Torch handle economiser K44040 is designed to fit the inlet of the burner trolley.

SPECIFICATIONS	SSBRA4	SSBRA6
Number of burners	4	6
Inlet connection	G3/8" LH M	
Outlet connection	M20 x 1 RH M	



BURNER MANIFOLD

1,400 mm

Burner manifold is specially designed for heating a large area and suit the high capacity burners on page 7. Stainless steel arm is 1,400 mm in length and has a control valve at the inlet.

SPECIFICATIONS	SBM4B14
Number of burners	4
Inlet connection	G3/8" LH M
Outlet connection	M20 x 1 RH M
OD of barrel	25.5 mm
Distance between outlets	300 mm



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. A red nozzle can be fitted to the outlet for more directional control.

Air-Propane Application Chart

	SNTBCF32	SNTBHS32	SSB30	SSB40	SSB50	SSB60	SSB80	SSB80-SPX	SNTBSB3	SNTBSB5	SNTBSB7	SNTBT12M	SNTBT18M	SNTBT22M	SNTBT28M	SNTB32P	SNTB64P
Adhesive removal	●			●	●	●	●	●								●	●
Aligning and bending work	●		●	●	●		●	●				●	●	●	●		
Aluminium soldering			●	●					●	●	●	●	●				
Annealing			●	●	●	●	●	●				●	●	●	●		
Annealing copper tubes												●	●	●	●		
Asphalt work					●	●	●	●									
Bending heavy tubes	●		●	●	●	●	●	●					●	●	●		
Bending lighter tubes	●	●	●	●								●	●				
Capillary brazing									●	●	●						
Capillary soldering									●	●	●	●	●	●	●		
Ceramic tile removal	●			●	●	●	●	●								●	●
Cooling and refrigeration work	●				●												
Copper bit soldering			●						●	●	●	●	●				
Enamelling			●	●	●	●											
Floor work	●			●	●	●	●	●								●	●
Forging work			●	●		●											
Foundry work			●	●	●	●	●	●									
Glazing work	●		●	●	●	●											
Hardening work	●		●	●	●	●						●					
Heat shrinking materials	●	●	●	●	●	●	●	●									
Heating polyolefin heat shrink	●	●															
Bending plastic tube, etc.		●	●	●	●	●						●	●	●			
Heating vessels/containers	●	●		●	●	●						●	●	●	●		
Hobby work	●		●	●	●	●			●	●	●					●	●
Insulating work	●	●	●	●	●	●								●	●		
Laboratory work	●		●	●													
Large brazing					●	●	●	●									
Large soft soldering	●		●	●								●	●	●	●		
Melting metal	●			●	●	●	●	●							●	●	
Melting of compounds	●			●	●	●	●	●						●	●		
Paint stripping		●		●	●	●											
Pre-heating prior to welding			●	●	●	●	●	●				●	●	●	●		
Precision work									●	●	●						
Road work					●	●	●	●									
Roofing work				●	●	●	●	●						●	●		
Sheet metal work			●	●	●							●	●	●	●		
Ski waxing																●	●
Small brazing				●								●	●				
Small soft soldering			●						●	●	●	●	●				
Soldering heavy duty			●	●										●	●		
Stress relieving			●	●	●	●						●	●	●	●		
Tempering work	●		●	●	●	●						●	●	●	●		
Thawing work		●		●	●	●						●	●	●	●		
Ventilation work		●		●	●	●											
Weed burning		●			●	●											

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