



TECHNICAL REFERENCES

Conversion Guide

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ENERGY		ENERGY	
100,000 BTU	= 105.5 Mj	1Mj	= 948.213 BTU
100,000 BTU	= 1 Therm	96 Mj	= 1 cubic metre
1 BTU	= 1.055 Kj	3.6 Mj	= 1 KW hour
3,412 BTU	= 1 KW	105.5 Mj	= 100,000 BTU
1,000 BTU	= 1.055 Mj/hour	50.4 Mj	= 1 kg
24,350 BTU	= 1.1 lb	105.5 Mj	= 1 Therm
948.123 BTU	= 1 Mj	1Kcal	= 4.187 Kj
21.5 Thermals	= 630 KW hours		
MASS		PRESSURE	
1lb LPG	= 21,500 BTU vaporised	1 KPa	= 0.145 Psi
1lb LPG	= 6.3 KW hours	1 bar	= 100 KPa = 14.5 Psi
100 lb LPG	= 630 KW hours	1 MPa	= 145 Psi
1lb LPG	= 22.6 Mj	1 KPa	= 4" WG
100 lb LPG	= 2,267 Mj	2.75 KPa	= 11" WG
		6.89 KPa	= 1 Psi
1Kg	= 50.4 Mj	2.5 Mbar	= 1" WG
1 Kg	= 47,000 BTU vaporised		
LIGHT		DENSITY	
3.14 Lumens	= 1 Candle Power	1ft ³	= 2,500 BTU
2100 Lumens	= 130 Watts	1 BTU/ft ³	= 0.037 Mj/m ³
VOLUME		VOLUME	
1 Litre	= 24,350 BTU = 1.1 lb	1 Litre	= 6.93 KW hours
1 Litre	= 25.4 Mj	2 Litres	= 1 Kg weight (approx)

1Kg/cm² = 14.2 PSI = 0.98 BAR = 98 KPa = 0.098 MPa

1 MPa = 10 BAR = 1000 KPa = 145.03 PSI = 10.19 Kg/cm²

1 BAR = 100 KPa = 14.5 PSI = 1.02 Kg/cm² = 0.1 MPa

100 PSI = 690 KPa = 0.69 MPa = 6.9 BAR = 7.03 Kg/cm²

Sales Info & Orders to: Phone 03 9399 1077 Fax 03 9391 8045 E-mail sales@jamesshields.com.au

Robert W. Spencer Pty Ltd Trading as James Shields & Company

190 Hall Street, Spotswood, Victoria. 3015

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Adaptor	A fitting that adapts from one cylinder type to another.
AGA	Australian Gas Association.
BSP	British Standard Pipe.
BTU	British Thermal Unit.
Bar	Pressure Measurement.
KW	Kilowatt = 1000 Watts.
LPG	Liquid Petroleum Gas.
Mj	Mega joule = 1,000,000 Joules.
Mj/hr	Mega joules per hour.
MPa	Mega Pascals.
NG	Natural Gas.
NPT	National Pipe Thread
Pigtail	Connection between a cylinder & a regulator. Available in copper, rubber or braided stainless steel hose.
POL	The generic name for the thread used on 9kg & some 4kg cylinders (horizontal outlet).
Psi	Pounds per square inch.
SAE	Society of Automotive Engineers. A thread type.
Therm	Heat measurement.
UL	Underwriters Limited Incorporated.
Union	A fitting that joins other fittings or tube.
WC	Water Column
WG	Water Gauge. Imperial measurement for low pressure.

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